

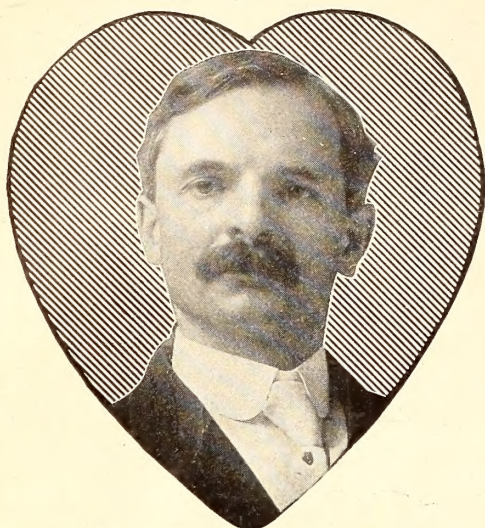
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AMERICAN POULTRY JOURNAL



E. K. STAHMER 1915



You Can Win with Sheppard's Famous Anconas

**They have the remarkable egg
record of 256 average for a flock**

In the laying house they will **win for you** because for years they have been line bred to lay. They just naturally have to "shell out the eggs"—its in their blood.

The large white eggs they lay will win for you—because their uniform size and color command the highest prices.

In the breeding yard they will win for you—because **they will reproduce**; years of careful mating, selecting and breeding assures this. Their characteristics are bred right into them, the demand for hatching eggs and breeding stock always exceeds the supply—advertisers of Sheppard's Famous Anconas always win.

In the show room they will win for you—because for **nine consecutive years** they have won three times as many first and second prizes at the **nation's greatest shows** as all competitors combined. **THEY ARE WORLD LEADERS.**

Give Them the Ha-Ha!

Man in Pennsylvania, who bought of me in 1914, writes: "They shell out the eggs—and don't take a day off, but keep on laying. They started on time at four and a half months. Skinned all other breeds in the neighborhood. My friends gave me the ha-ha last summer about the fancy breed of chickens, now I give them the ha-ha every time I see them. The **Anconas** have it on all of them—and they know it."—T. S. B.

You want profits; you want beauty and utility combined to the highest degree possible; you want to win, then, the answer is **Sheppard's Famous Anconas!**

ORIGINATED BY

H. Cecil Sheppard.
Box M2, Berea, Ohio

CLIP THIS COUPON NOW, BEFORE YOU FORGET IT

See my advertisements on pages 110 and 111



Mr. Sheppard:—

Send me your 70-page Ancona book—FREE

Name

Full Address.....



**HIP!
HIP!!
HOORAY!!!**

**Grand
Champion
of the
World**

That is the proud title which the Aristocrats are now entitled to bear. Where the entire world gathered together its best birds, there, there the Aristocrats were crowned **Victors** over all. There, there where the best birds of the East, as well as of the West, where the best birds of the North, as well as of the South, where, in fact, the best birds that could be found **Anywhere at Any Price** were brought together in one mighty show-room—there, there the Aristocrats triumphed decisively, not only by winning a number of prizes, but by winning that hardest fought-for prize of all, that premier prize of the entire show,—

FIRST EXHIBITION COCKEREL

There, there in that magnificent gathering of the **World's Best** they won not only one prize, but a goodly string of prizes, not only on exhibition cockerels, but even more so on **Exhibition Pullets**. There, there is the stamp of approval, put there in one of the greatest, if not the greatest Poultry Show the World has ever seen. This was the entire World's Poultry Show, not an Eastern show, not a Western show, not a State show, not a National show—but the Poultry Show of the entire World. Therefore, once more

HOORAY! HOORAY!! ARISTOCRATS!!!

The sire of the World's Champion Cockerel is the great Ringy Wonder, who has proven to be a phenomenal breeder of exhibition cockerels. The bird is so intensely vigorous that he has stamped his truly sensational color and barring on his sons, so that I have a number of his cockerels which show even such wonderful barring as he has. Do **You** want one? They will be the **Winners** in the show-room, and the greatest breeders you can possibly buy. Write quick if you want one of these birds, the greatest among the great.

I have hundreds of grand exhibition cockerels. I have hundreds of grand exhibition pullets. I have hundreds of cocke... bred pullets and pullet-bred cockerels. All are ready and eagerly waiting to win out in January shows. Fellow Breeders, these Aristocrats this year are simply a revelation. Not only in that sharp dazzling, scintillating **Color and Barring** for which the Aristocrats are noted all over the world, but also in fine **Finish**, proud, vigorous **Carriage**, ideal **Plymouth Rock Type** and **Shape**, in almost perfect **Head Points**, and in deep, orange colored **Legs**, they are looking for their equals. I am proud of these birds—proud and happy.

If you wish to **Win** at **Any** show with any kind of Barred Rock—write me—for I can surely furnish such winners. You may order old birds or young, male or female, cockerel-bred or pullet-bred, singles or pens. If you want to be **sure** of winning, you simply **Must** have Aristocrats.

Order Early and be on the Safe Side.

W. D. HOLTERMAN, Fancier, Box A, FORT WAYNE, IND.

Grand NEW Beautiful Catalog—Just Out. It's Free.

NOV 10 1918

Columbian Plymouth Rocks

Eggs and stock from pens headed by winners at Madison Square Garden and Palace and sons of "Columbia Queen," champion heavy weight hen, record 286 eggs. Mating list free.

T. J. ENSLIN Hackettstown, N. J.

"By Their Works Ye Shall Know Them"

At Panama-Pacific Exposition, San Francisco, Cal., on 3 entries S. C. Rhode Island Reds, 4th hen, 6th cockerel; 2 entries S. C. Buff Orpington, 5th pullet. Remember when you get ready to buy eggs or fowls, we were the only ones south of Ohio River and east of Mississippi River who breed



WE WANT
YOUR BUSINESS

S. C. Rhode Island Reds and Buff Orpingtons, to win a ribbon, and so far as we know the only ones who exhibited. Now if the other fellow has just as good or better why didn't he show his faith by his works and exhibit? Don't be misled by a plausible advertisement. When a fellow has something good enough to show he generally puts it on parade, if you have a good trotter you enter him in the races, just telling your neighbor you have a good one doesn't amount to anything, all of us say or claim that, but when you race him and he wins then your opinion is verified and it has weight.

At Palace Show, New York, November, 1915, on one entry White Runner Ducks, we won 1st young drake and 1st young duck.

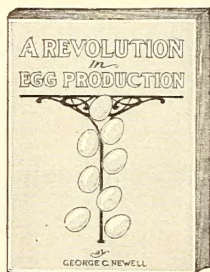
At Kentucky State Fair, Louisville, Ky., all classes full, we won every first but one, that on hen and were 4th; we won 1, 2, 3, 4, 5th cockerels. How often do you see that? Sweepstakes Cup with S. C. Orpington best male in show. Special with S. C. Rhode Island Red cock, best cock in show. Our winnings are too numerous this year to put in an advertisement. Send 30 cents in stamps for our new Colortype catalog—pheasants, fancy ducks, S. C. Rhode Island Reds, Buff and Blue Orpingtons, Houdans, White Runner ducks, White African guineas, Blue and White peafowls, wild turkeys, Japanese Silkies and Longtails. We have to charge for catalogs to protect ourselves against catalog fiends. But if you don't like our catalog and return in 48 hours after receiving, your money refunded. If you buy as much as \$5.00 when you remit, deduct cost of catalog.

CHILES & CO., Mt. Sterling, Ky.

Are You Breeding for Egg Production?

If you are you need a copy of

A Revolution in Egg Production



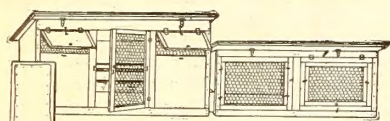
The first edition of this new work on egg production is now on the press. It is from the pen of Geo. G. Newell, being the author's experience of tested, successful methods for continuous laying, as practiced in his farm plant.

The author proves that environment is as big a factor in egg production as heredity, and there is no question but that if one follows his teachings they are sure to find the egg yield increase.

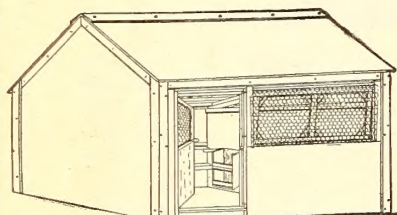
It treats on poultry care in general, appliances, brooding problems, artificial and natural incubation, winter, summer, fall and spring eggs, care of eggs, meat production, what to feed, water problems, in fact, it covers the poultry yard thoroughly in all its branches. All in all it is a book that we heartily recommend, for we are sure you will find it the best investment you ever made.

Order your copy today, it will be mailed to you as soon as off the press. The price is \$1.00.

AMERICAN POULTRY JOURNAL PUBLISHING COMPANY,
542 S. Dearborn St., Chicago, Ill.



Coop for 12 Hens, \$10.00



10x10 Portable

All purpose house. Can be made in units. Just right for brooders or brooder stove. Equally good for growing stock or laying hens. Price..... \$30.00

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The product of his breeding pens of 1915 in Brahmas, White Orpingtons, White and Barred Rocks and White Wyandottes that seem better than any previous years output. Send for circulars and particulars. Mention A. P. J.

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We are making a specialty of good printing for poultrymen and would be pleased to quote prices and send samples to anyone who wants up-to-date

printing—the kind that will improve your business. We can furnish cuts of nearly all varieties of thorobred poultry.

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BROOKFIELD, COOK CO., ILL.

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Knudson's wonderful patented galvanized Steel Nests (not trap nest) banish lice and mites, keep hens healthy, make more eggs. Six nests per section. Sold on money back guarantee.

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That's the name of our new booklet. Send for it today. Tells how to increase your egg production. Ask for book or send \$3.50 one set or \$10.00 set of three sections, (18 nests).

18 Nests
\$10.00



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Our Anconas first prize winners at the world's leading shows. Large illustrated catalogue describing both combs.

J. O. SOMERS,

BEDFORD, OHIO

"WE LEAD, OTHERS FOLLOW"

TABLE OF CONTENTS

	PAGE		PAGE
Ira C. Keller—Pioneer Poultryman.....	33	Our Cover	98
The Production Cost of a Dozen Eggs.....J. F. Robinson	34	Horticulture for Poultry Keepers.....Thomas F. Rigg	99
An Island, Standardbred Poultry Plant	36	Questions and Answers.....Prince T. Woods, M. D.	104
Development of White Rock Pullets....James B. Morman	40	Why I Breed S. C. Black Minorcas.....Henry D. Barts	112
Barred Plymouth Rocks and Their Breeding..C. H. Latham	43	Chicago Coliseum Poultry Show.....	115
Specialty Breeding Barred Plymouth Rocks	45	Readers' Experience Department.....	139
Reasons Why I Keep Black Langshans....J. F. Robinson	48	Woman's Success with Poultry.....Helen T. Woods	142
Why I Believe In and Breed Black Langshans	48	Home and the Table.....Helen T. Woods	148
Editorial	50	St. Louis, Mo., Show.....F. D. Rogers	151
Happy New Year Everybody—Heredity—Danger in Kerosene—Sex Control—To the Beginner—Stop the Leak—Butter for Your Bread—S. C. White Leghorn Breeders, Attention.		Poultry Show at Quincy, Ill.....F. D. Rogers	153
Dr. Woods' Notes and Comment.....	56	Annual Show of The South Jersey Poultry Association	155
Winners in Langshan Article Contest.....	61	Awards of Mississippi Valley Fanciers' Association.....	156
The American Poultry Association Meeting..H. H. Collier	63	Panama-Pacific International Exposition Poultry Show	158
Why Keep Orpingtons?.....Percy W. Cook	66	Awards at Buffalo Show.....	167
Recent Inventions for Poultrymen.....Lester L. Sargent	68	Awards at Pittsburg, Kansas.....	170
Requirements for a General Purpose Fowl—What Breed Fills Them Best.....O. W. Aldrich	70	Awards at Erie, Pa., Show.....	179
The Palace Show.....Prince T. Woods, M. D.	75	Awards at Atlantic, Iowa.....	179
The American Poultry Association Convention.....	98	The Norwalk, Ohio, Show.....	180
		Awards at New London, Conn.....	180
		Awards at Barnes Co. Corn Show.....	181
		Associations and Shows.....	183
		Winnings of American Poultry Journal Advertisers.....	186
		Show Dates	188

The Talk of the Chicago Coliseum Show

The Schwalge System of Artificial Incubation

At the recent Chicago Coliseum show, we firmly believe that we sold more incubators than any two of our competitors, and the reason is very simple. People who attended the show have been contemplating buying an incubator for some time; they had studied the catalogs of all the different manufacturers and needed but to see our machine in actual operation to finally convince them that the "Schwalge System" was the one they should have.

WITH OUR SYSTEM OF ARTIFICIAL INCUBATION

You buy a 150, 300 or 600-egg capacity machine and then add to this as your business increases until you have a MAMMOTH MACHINE.

There are no "hot spots" nor any "cold spots" in this machine—every square inch is of the same temperature. This is secured by a 5-Pipe Heating System—different from that used in any other incubator. Does not require so hot or intense a flame as other machines as more heat is made use of. Uniform heat means uniform hatches.

Moisture and Ventilation—In this incubator we have devised the most satisfactory moisture and ventilating system ever put into an incubator. We alone use it. Two pipes extend downward toward the floor. Moisture laden air is always near the floor; it is drawn up into the incubator thru the pipes and heated, thus supplying moisture and fresh warm air to the hatching chamber.

Regulating Devices—Because we heat ten sections with one lamp at the side of one section some people imagine there will be a difference in the temperature of the various sections. This is not so. By a series of graduated rings we permit a certain amount of heat to pass thru each section and so the heat is uniform.

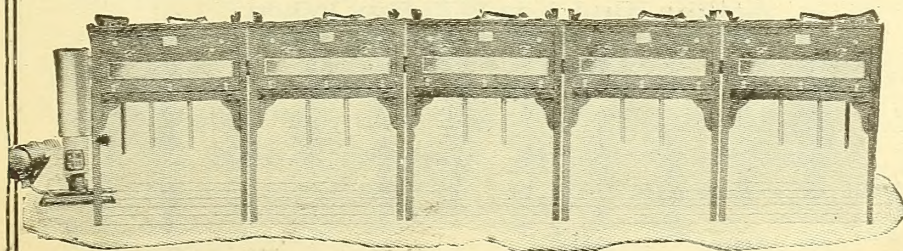
There are dozens of other exclusive features; so before buying an incubator send for catalog.

OUR FOUR-IN-ONE

consists of one section containing four independent egg chambers of 150 eggs each. It is a marvel in practicability and effectiveness, suitable for the most progressive poultry breeder.

Our guarantee is proof of what our machines are, for we agree to refund your money if you return the machine as not satisfactory any time within 40 days of date of sale.

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This illustration shows five sections of 150-egg size Schwalge Incubator joined together, making an incubator of 750 eggs capacity; all five sections are heated by one lamp and the temperature in all sections is exactly the same.

You want the best incubator your money will buy—the one that hatches every hatchable egg. Well, here it is. Just drop us a card for the "Schwalge System" catalog. Read the proof contained therein, then you will agree that better hatches for less money means the

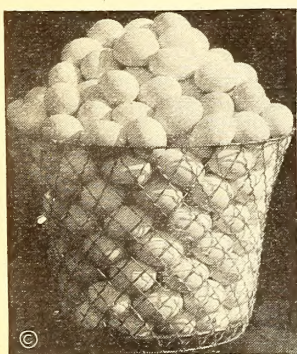
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TESTED, TRUE,
SCHWALGE SYSTEM

SCHWALGE-SMITH CO.
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INDEX TO GUARANTEED ADVERTISERS

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Abernethy, Jas., West Pembroke, Me.....	92	Cline, Mrs. Walter, Versailles, Mo.....	134	Halbach, H. W., Waterford, Wis.....	55
Abbott, O. M., Whiteland, Ind.....	114	Close-To-Nature Co., Colfax, Iowa.....	170	Hall, Theo. S., New York, N. Y.....	187
Aldrich Poultry Farm, Columbus, Ohio..	24	Coburn's Red Sus. Farms, St. Clair, Mich.	94	Hall Mam. Inc. Co., Little Falls, N. Y..	70-71
Allen Co., W. F., Salisbury, Md.....	99	Cole, Frank C., Van Wert, Ohio.....	64	Handyside, J. R., Litchfield, Ohio.....	173
Almendinger, A. F., Buffalo, N. Y.....	169	Conkey Co., G. E., Cleveland, Ohio.....	167	Hansen, Dr. M. A., Osage, Iowa.....	158
Almy, F. W. C., Tiverton 4 Corners, R. 1..	174	Conrad, E. K., Hackensack, N. J.....	200	Harbin, Edmond J., Riverside, Ill.....	178
Alum. Marker Works, Beaver Falls, Pa..	83	Cook, L., Oakville, Iowa.....	83	Harrison, F. E., Menominee, Mich.....	9
American Bee Journal, Hamilton, Ill.....	169	Cook & Sons, Wm., Scotch Plains, N. J..	57	Hartley Steel Crated Box Co., Mich.....	185-107
Amer. Poul. Adv., Syracuse.....	160-168-173	Co-Op. Breeding & Hatching Co., Tiro, O.	153	Hartman, Mrs. Joe, Loraine, Ill.....	59
Amer. Poul. Jour., Chicago, 4-27-181-185-184		Corning Egg Farm, Bound Brook, N. J..	164	Heasley, Dr. L. E., Holland, Mich.....	95-169
92-141-145-148-163-168, inside back cover		Corn Prod. Refin. Co., New York, N. Y..	145	Henderson, W. W., Bridgeton, Mo.....	151
Am. School of Poul. Husbandry, Missouri..	200	Cornell Co., Great Barrington, Mass.....	130	Heneta Bone Co., Newark, N. J.....	167
Anchorage Farm, Silver Lake, Mass.....	59	Correct Hatcher Co., Leesville, Ohio.....	168	Hering, Frank E., South Bend, Ind.....	11
Andrews, J. W., Dighton, Mass.....	138	Country Gentleman, Philadelphia, Pa.....	143	Hess & Clark, Ashland, Ohio.....	106
Andrews, O. B., Chattanooga, Tenn.....	74	Cross, Frank, Montague, Mass.....	169	H. I. Company, Salem, Va.....	171
Andrews, S. H., Mineola, N. Y.....	59	Cudahy Packing Co., Chicago, Ill.....	150	Hinde & Dauch Paper Co., Sandusky, O.	173
Andrews Pa. Box Co., Tenn., Inside bk. cover		Curtis, E. G., Atsion, N. J.....	187	H. O. Company, Buffalo, N. Y.....	172
Applegate Poultry Farm, Delavan, Wis.....	109	Curtiss Co., W. R., Ransomville, N. Y..	62	Hodgson Co., E. F., Boston, Mass.....	108
Atsatt Bros., Mattapoisett, Mass.....	169	Cyphers Incubator Co., Buffalo, N. Y.....	65-163	Holterman, W. D., Fort Wayne, Ind.....	3
Audley, H. H., Cincinnati, Ohio.....	87			Homestead Camp, Farm, Wayland, Mass.	140
Automatic Trap Nest Co., Kenosha, Wis.....	168			Hooker, Henrietta E., So. Hadley, Mass..	112
		Darling & Co., Chicago, Ill.....	172	Hotel Breslin, New York, N. Y.....	140
Baldwin, Mrs. E. H., Racine, Wis.....	87	Dawdy & Dawdy, Greenville, Ill.....	138	Houck & Alt, Buffalo, N. Y.....	146
Banks, M. H., Dillsburg, Pa.....	130	Dean, S. M., Fort Dodge, Iowa.....	162	Houston & Hofus, So. Charleston, Ohio..	62
Barker, M. S., Thornton, Ind.....	59	Deege, Grover, Quincy, Ill.....	145	Howison, Chas., Sandwich, Ill.....	138
Barron Pub. Co., Philadelphia, Pa.....	172	Deer, F. L., Franklin, Ind.....	64	Hubbards Poul. Secrets, Lime Rock, Conn.	165
Barstow, Geo. N., Oneonta, N. Y.....	87	Demberger, L. J., Stewartsville, Ind.....	153	Hummel, S. A., Freeport, Ill.....	165
Bawden, John, Ridgetown, Ont., Can.....	146	Des Moines Inc. Co., Des Moines, Ia.....	31-99	Humphrey, Joliet, Ill.....	165
Bayerdorffer, M., Hug. Pk., S. I. N. Y.....	89-187	Devoe's, Dodgeville, Wis.....	109		
Bean, I. W., So. Braintree, Mass.....	187	Doerhoefer, Lewes P., Anchorage, Ky.....	96	International Glue Co., Boston, Mass.....	159
Belgian Hare, Holmes Park, Mo.....	201	Duplex Col. Brooder Co., Rockford, Ill...	173	Iowa Incubator Co., Des Moines, Ia.....	207
Bella Vista Farms Co., Kimmswick, Mo.....	157			Ironclad Incubator Co., Racine, Wis.....	182
Belle City Incubator Co., Racine, Wis.....	22-23	Eakin, F. M., Bucyrus, Ohio.....	149	Irwin Mfg. Co., Montpelier, Ind.....	173
Bemis, E. L., Fond du Lac, Wis.....	90	Easing, N. P., Pekin, Ill.....	63	Ives, Mrs., Knobnoster, Mo.....	173
Bennett's Poul. Farm, Anderson, Ind.....	64	Eddy, O. R., Oconomowoc, Wis.....	146		
Berg & Beard Mfg. Co., Brooklyn, N. Y..	167	Edwards & Loomis Co., Chicago, Ill.....	20-21	Jacobus, M. R., Ridgefield, N. J.....	89
Bernard Co., Phillip, Sioux City, Iowa.....	88	Elden, Joe, Jefferson, Wis.....	161	Jensen, Carl J., Waukegan, Ill.....	155
Berry's Poultry Farm, Clarinda, Ia.....	64-170	Elec. Specialty Co., Salt Lake City, Utah.	59	Johnson Co. M. M., Clay Center, Neb.....	28-29
Beuoy, Geo., Cedar Vale, Kansas.....	169	Elliott Poul. & Fruit Farm, Mansfield, O.	109	Jones Co., H. M., Des Moines, Ia.....	92
Bird Bros., Meyersdale, Pa.....	69	Enslin, T. J., Hackettstown, N. J.....	4	Judson Printing Co., Brookfield, Ill.....	4
Bird & Son, East Walpole, Mass.....	88	Everfresh Egg Farm, Ionia, Mich.....	132		
Birkholz, Ernst F., Willoughby, Ohio.....	185	Everlay Farm, Methuen, Mass.....	12-123	Kaup, F. A., Glen Ellyn, Ill.....	9
Blatchford's Calf Meal Fcty., Illinois.....	100	Ever Ready Trap Nest Co., Missouri.....	146	Keefer, C. A., Muskegon, Mich.....	146
Blue Ribbon Poul. Farm, Judson, Ind.....	168	Ewing & Romich, Creston, Ohio.....	172	Keeler, Chas. V., Winamac, Ind.....	56
Blum, Barbara, New Washington, Ohio.....	130			Keipper Cooping Co., Milwaukee, Wis.....	185
Blum, Frank, New Washington, O.....	107-123	Faha, Jr., Frank, Dyersville, Iowa.....	93	Keller, Ira C., Prospect, Ohio.....	59
Bock, Oscar L., Council Bluffs, Iowa.....	91	Farm Journal, Philadelphia, Pa.....	100	Kellogg, R. M. Co., Three Rivers, Mich..	100
Boggs, K. C., Olney, Illinois.....	165	Farmer, L. J., Pulaski, N. Y.....	100	Keyes-Davis Co., Battle Creek, Mich.....	159
Bottenus, Mrs. B., Cleveland, Ohio.....	145	Farrant, F. M., Kalamazoo, Mich.....	123	King, Dr. A. C., Chicago, Ill.....	157
Bourne Mfg. Co., Melrose, Mass.....	168	Faulds, T. A., London, Ont., Can.....	87	Kitselman Bros., Muncie Ind.....	102
Bower-Knoll Farm, Olney, Ill.....	109	Felch, I. K., Natick, Mass.....	4	Klein, J. W., Kiel, Wis.....	157
Bradley Bros., Lee, Mass.....	202	Fernbrook Farm, Albany, N. Y.....	145	Klein-Lambert Co., Chicago, Ill.....	167
Brinkley, W. J., Iuka, Miss.....	148	Fishel & Son, J. C., Hope, Ind.....	66	Knollenberg Milling Co., Quincy, Ill.....	150
Brogden, Thos., Rush Lake, Wis.....	158	Fishel, U. R., Hope Ind.....	112	Knudson Mfg. Co., St. Joseph, Mo.....	4
Brown Fence & Wire Co., Cleveland, O.....	152	Fogg, N. V., Mt. Sterling, Ky.....	85	Kulp, W. W., Pottstown, Pa.....	89
Brown, John L., Anderson, Ind.....	64	Foxhurst Farm, Lime Rock, Conn.....	162		
Bruerton, M. M., Wakefield, Mass.....	146	Frantz, O. C., Rocky Ford, Colo.....	163	Lakewood Farms, Holland, Mich.....	161
Buckeye Incubator So., Springfield, O.....	101	Frase, W. F., East Akron, Ohio.....	153	Larkin & Herzberg, Mankato, Minn.....	108
Buckeye Poultry Yards, Eaton, O.....	130-150	French Co., R. T., Rochester, N. Y.....	15	Latham, C. H., Lancaster, Mass.....	58
Buell, Mrs. L. R., Lake Geneva, Wis.....	155	Friesner & Son, J. W., Bremen, Ohio.....	124	Lauver, C. M., Richfield, Pa.....	92
Buffalo Incubator Co., Buffalo, N. Y.....	124-171	Furness, Tom H., Chesterfield, England..	64	Lee Co., Geo. H., Omaha, Neb.....	64-157
				Leitner, C. H., Elgin, Ill.....	92
Cadwallader, T., Salem, Ohio.....	172	Galloway Co., Wm., Waterloo, Iowa.....	167	Liberty Stove Company, Philadelphia, Pa.	185
Cairngorm Farm, Nottingham, Ohio.....	92	Gamewell, J. A., Little Silver, N. J.....	93	Licene Co., Chicago, Ill.....	187
Candee Inc. & Brooder Co., N. Y.....	60-61	Garbutt, Cora B., Darien, Wis.....	67	Lily White Poul. Farm, Saginaw, Mich..	154
Carbo Corporation, Chicago, Ill.....	144	Garnett, F. L., Cleveland, Ohio.....	162	Lingeman, C. C., St. Louis, Mo.....	173
Carbola Chemical Co., New York City.....	170	Gassman, Henry, Olney, Ill.....	64	Lo-Glo Elec. Incubator Co., New York...	69
Carr Bros., Vineland, N. J.....	59	Gensch, F. M., Omro, Wis.....	138	Longfield Poultry Farm, Bluffton, Ind...	154
Carey, Dr. A. B., Cherry Valley, N. Y.....	89	Genesee Bros., Creston, Ohio.....	7	Lytle Lumber Co., Deshler, Ohio.....	169
Carter's Poultry Farm, Jonesdale, Wis...	88	Gerber, G. J., Dalton, Ohio.....	158		
Carver, A. A., Seville, Ohio.....	53	Glory Anna Poul. Yds., Louisville, Ky...	159	MacKay Col. Brooder Co., Syracuse, N. Y.	25
Carver, Mrs. A. A., Seville, Ohio.....	53	Goddard & Sons, W. H., Muncie, Ind.....	185	McCammon & Myers, Gettysburg, Pa.....	130
Cassel & Son, F. P., Lansdale, Pa.....	92	Golden & Co., Washington, D. C.....	172	McConnell, J. V., Garden Grove, Cal.....	201
Chesapeake & Ohio Ry., Richmond, Va.....	146	Gordon, Jessie F., Spring Valley, Minn..	157	McCrum, W. O., Decatur, Ill.....	93
Chicago Feed & Fertilizer Co., Chicago.....	182	Goshen Poultry Farms, Goshen, Ind.....	93	McDaniel & Cessna, Kansas, Ohio.....	173
Chicago House Wrecking Co., Chicago.....	16-17	Graham, Alfred F., Moultrie, Ga.....	152	McGrann, Frank, Lancaster, Pa.....	6
Chiles & Co., Mt. Sterling, Ky.....	4	Greider, B. H., Rheems, Pa.....	88	McKean, H. P., Jr., Beverly Farms, Mass.	185
Clark, Mrs. C. E., Carrollton, Ill.....	90			McKean, Shaw, Prides Crossing, Mass.....	93-159
Clemans, F. M., Mechanicsburg, Ohio.....	169			McLean, S. G., So. Glastonbury, Conn...	161



Whatglen Black Minorcas

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Magic Egg Tester Works, Buffalo, N. Y. 106
 Mahon, Elton C., Norwood, Tenn. 108
 Maloney Bros. & Wells Co., N. Y. 89
 Mankato Incubator Co., Mankato, Minn. 102
 Mann Co., F. W., Milford, Mass. 166
 Marshall & Marshall, Niagara Falls, Can. 107
 Martin, John S., Port Dover, Ont., Can. 54
 Martling Hennery, Ridgefield, N. J. 9
 Martz & Son, A. E., Arcadia, Ind. 52
 Meadow Lark Farm, Elgin, Ill. 134
 Meadow Lawn Poultry Yds., Michigan. 138
 Metzger Mfg. Co., Quincy, Ill. 146
 Miller Poultry Farm, Lancaster, Mo. 144
 Milwaukee Poultry Show, Milwaukee. 86
 Mo. Poul. & Squab Co., Kirkwood, Mo. 163
 Mittendorf, O. F., Lincoln, N. Y. 69
 Model Incubator Co., Buffalo, N. Y. 180
 Moeller, A. E., Brooklyn, N. Y. 92
 Moeller, Carl W., Quincy, Ill. 146
 Monmouth Farms, Frenau, N. J. 132
 Moore, R. H., Nellie, Ohio. 152
 Morris Farm, Bridgeport, Conn. 89
 Morris Poultry Farm, Lebanon, Ohio. 163
 Mount Air Farm, Powell, Ohio. 85
 Mountville Farm, Mountville, Va. 173
 Myers, C. Guy, Siddonsburg, Pa. 200
 Myers, C. N., Hanover, Pa. 53
 Myers, Frank, Freeport, Ill. 92

National Incubator Co., Racine, Wis. 62
 National Poultry Institute, Topeka, Kas. 169
 Nat. W. Wyandotte Club, Pennsylvania. 173
 Natural Hen Inc. Co., Los Angeles, Cal. 144
 Nelson, Walter P., Bayonne, N. J. 146
 Neubert, F. A., Mankato, Minn. 103
 Neubert, R. F., Mankato, Minn. 89
 Neubert Incubator Fcty., Mankato, Minn. 103
 Neusitz Co., W. A., St. Louis, Mo. 159
 Newell & Gordinier, Troy, N. Y. 88
 Newtown Giant Inc. Corp., Virginia. 74
 New Washington Hatchery, Ohio. 89
 Niemann Bros. Mfg. Co., Mt. Olive, Ill. 85
 Nixon, Chas., Washington, N. J. 161
 Norman Farms & Hatchery, Illinois. 134
 North Eastern Mfg. Co., Keeseville, N. Y. 126
 Norwich Auto Feeder Co., Connecticut. 177
 Nye, C. C., Harristown, Ill. 174

Oakes Mfg. Co., Tipton, Ind. 109
 Ohio Marble Co., Piqua, Ohio. 102
 O. K. Co., New York, N. Y. 162
 Old Forge Poul. Farm, Spring Grove, Pa. 89
 Orchard Farm, Noroton Heights, Conn. 89
 Ossege Hatchery, J. W., Glandorf, O. 93
 Otis & Moe Mfg. Co., Chicago, Ill. 143
 Owen Farms, Vineyard Haven, Mass. 72-73

Pagel, Fred, Rockford, Ill. 146
 Palmer & Son, D. F., Yorkville, Ill. 138
 Pape, Chas. G., Port Wayne, Ind. 106
 Parke, Davis & Co., Detroit, Mich. 165
 Parks, J. R., Altoona, Pa. 187
 Parks, J. W., Altoona, Pa. 86
 Pasteur Lab. of America, New York. 165
 Payne Bros., Portland, Conn. 146
 Pennington, J. S., Plainfield, Ill. 185
 Penna. Poultry Farm, Lancaster, Pa. 14
 Perfection Port. Poul. House Co., Chicago 91
 Perry, Louis H., Clay, N. Y. 89
 Pfle, Henry, Freeport, Ill. 169
 Philo, E. W., Elmira, N. Y. 18
 Pilling & Son Co., G. P., Philadelphia. 169
 Pittsfield Poultry Farms Co., Mass. 188
 Platt, F. L., Swanton, Ohio. 52
 Plymouth Rock Squab Co., Mass. 109

Pomona Nurseries, Dansville, N. Y. 100
 Poorman, John G., Tinley Park, Ill. 32
 Pope & Pope, Louisville, Ky. 200
 Porter, A. B., La Salle, Ill. 132
 Port Huron Fish Co., Port Huron, Mich. 200
 Potter & Co., Downers Grove, Ill. 62
 Poultry Association Ads. 189-190-192
 Poultry Books 161
 Poultry Exchange, Stamford, Conn. 186
 Powers, J. H., Chicago, Ill. 138
 Prairie State Inc. Co., Homer City, Pa. 159
 Pratt Co., Arthur E., Albany, N. Y. 83
 Pratt Food Co., Philadelphia, Pa. 91
 Prescott Sales Co., Kansas City, Mo. 92
 Progressive Incubator Co., Racine, Wis. 108
 Prudhomme, Dr. J. H., Thurmont, Md. 141
 Putnam, I., Elmira, N. Y. 108-110-167

Queen Inc. Co., Lincoln, Neb. 10

Rancho Del Martino, Downey, Cal. 68
 Rancocas Poul. Farms, Browns Mills, N.J. 124
 Rawnsley-Shields Poul. Farm, Ohio. 152
 Read Poultry Farm, Watervliet, N. Y. 169
 Reed, Mrs. Hattie D., Marcellus, N. Y. 130
 Reeser, E. J., Kansas City, Mo. 131
 Reliable Inc. & Brooder Co., Quincy, Ill. 19
 Reliance Incubator Co., Freeport, Ill. 190
 Resseguie, L. B., Millers, N. Y. 90
 Riley, Henry D., Strafford, Pa. 172
 Riley, H. J., Bryan, Ohio. 112
 Ripple Mfg. Co., Grafton, Ill. 200
 Roberts, Wm., Granville, Mich. 93
 Robinson & Bro., C. N., Baltimore, Md. 190
 Rochester Spray Pump Co., N. Y. 165
 Rockford Poul. Sup. Co., Rockford, Ill. 88
 Rogers, F. D., Chicago, Ill. 138
 Rolyat Poul. Co., Blue Point, N. Y. 87-90-91
 Rose City Poul. Yards, New Castle, Ind. 168
 Rosedale Egg Farm, Port Huron, Mich. 107
 Rosemont Poul. Farms & Hatchery, N. J. 155
 Rudy, Geo. H., Mattoon, Ill. 9
 Ruf, Fred A., Crown Point, Ind. 173

Sanborn, Dr. N. W., Holden, Mass. 155
 Sargent, Lester L., Washington, D. C. 146
 Saunders & Williams, Ingersoll, Can. 87-96
 Savage, P. L., St. Charles, Ill. 150
 Schenley Heights Poul. Farm, Pittsburgh. 83
 Schultz, W. F., Cuyahoga Falls, Ohio. 153
 Schwab Bros., Irondequoit, N. Y. 153
 Schwalge-Smith Co., Elmhurst, Ill. 5
 Scranton, B. H., Rising Sun, Ind. 167
 Sectional Hen Incubator Co., Tiffin, O. 152
 Sefton Mfg. Co., Chicago, Ill. 128
 Seward, R. M., Lewistown, Ill. 159
 Sharp, Herb E., Spokane, Wash. 146
 Sheer Co., H. M., Quincy, Ill. 67
 Sheffield Farm, Glendale, Ohio. 141
 Sheppard, H. Cecil, Berea, Ohio. 2-110-111
 Sherman, C. A., Freeport, Ill. 165
 Shinn, Warren, Woodbury, N. J. 99
 Shoemaker, C. C., Freeport, Ill. 26
 Shoenhard, G. H., Freeport, Ill. 158
 Silliman, John, Ironton, Ohio. 89
 Simmonds, Chas. A., Camp Point, Ill. 153
 Simplex Brooder Stove Co., Michigan. 113
 Simplex Sup. House, Chicago. 114-144-156-157
 Skinner, P. E., Sandwich, Ill. 170
 Slingerland's Cor. School of Music, Illinois. 169
 Smith, Eugene C., Aurora, Ill. 56
 Smith, F. S., Hamilton, Ohio. 179
 Smith-Standard Co., Cleveland, Ohio. 86
 Somers, J. O., Bedford, Ohio. 4
 Spahr, Albert G., Xenia, Ohio. 62

Spiller, A. P., Beverly, Mass. 169
 Sprague, P. H., Maywood, Ill. 87
 Spring Water Poul. Farm, Stockton, N. J. 171
 Starck Piano Co., P. A., Chicago, Ill. 141
 Starks, M. L., Starks, Wis. 132
 Stearns & Co., E. C., Syracuse, N. Y. 167
 Steinmesch, Hy., St. Louis, Mo. 59
 Stenz & Son, Joseph, Fond du Lac, Wis. 64
 Stiarwalt, John, Decatur, Ill. 93
 Stiles, Chas. L., Columbus, Ohio. 89-165
 Stratton Mfg. Co., Erie, Pa. 102
 Succulenta Co., Newark, N. J. 100
 Summerfield & Co., S. St. Louis, Mo. 185
 Sunlight Poultry Farm, Lynchburg, O. 142
 Sunnyside Poultry Farm, Bristol, Vt. 146
 Sunswick Poul. Farm, S. Plainfield, N. J. 94

Tarbox, A. & E., Yorkville, Ill. 86
 Taylor Geo., Urbana, Ill. 83
 Taylor Instrument Co., Rochester, N. Y. 106
 Tenacre Poultry Farm, Princeton, N. J. 153
 Thompson, E. B., Amenia, N. Y. Back cover
 Thompson & Co., F. A., Detroit, Mich. 169
 Thornwood Poultry Yards, Crandall, Ind. 155
 Thornycroft Buff Leghorn Farm, Penn. 169
 Tiffin Poul. Farms & Hatchery, Tiffin, O. 144
 Timberlake & Sons, J. B., Jackson, Mich. 96
 Tompkins, Harold, Concord, Mass. 59
 Treman, King & Co., Ithaca, N. Y. 88
 Tremper, S. N., Sandwich, Ill. 93
 Trethaway, Arthur, Wilkes-Barre, Pa. 169
 Tyler, Wm. & C. W., Elgin, Ill. 161

Uhl & Co., M., New Washington, Ohio. 89
 Union Stock Yds. Poul. Farm, Chicago. 185
 United Brooder Co., Trenton, N. J. 107
 Universal Heat Check, Buffalo, N. Y. 167

Unwaight, E. C., Red Bank, N. J. 168
 Walker, G. A., Polo, Ill. 138
 Ward, John W., Jr., Pennington, N. J. 168
 Ward, W. H., Nickerson, Kansas. 157
 Warner, The Coopman, Allegan, Mich. 157
 Watson Mfg. Co., Lancaster, Pa. 162
 Waugh, M. H., Peoria, Ill. 182
 Weber, W. A., Mankato, Minn. 152
 Wellcome, F. O., Yarmouth, Maine. 172
 Wells, R. E., Sparta, Ohio. 154
 Wendell Incubator Co., Holly Mich. 107
 Westmoreland Chem. & Color Co., Phila. 108
 Wetmore, C. S., Lackawanna, N. Y. 128
 Wheeler, Albert V., Carlisle, Ill. 154
 White City Egg Farm, Seville, Ohio. 130
 Wilburtha Poul. Farms, Trenton Jct. N. J. 186
 Williams, A. C., Ravenna, Ohio. 58
 Williams, E. H., Berea, Ohio. 146
 Wilson Bros., Easton, Pa. 165
 Wing & Son, New York, N. Y. 103
 Wisconsin Incubator Co., Racine, Wis. 95
 Wolf-Huber Hatchery Co., Gibsonburg, O. 87
 Wood, Chas. H., Worcester, Mass. 200
 Woods, H. M., Carlisle, Ill. 157
 Woolery Farm, Bloomington, Ind. 126
 Wotherspoon, Jas. R., Philadelphia, Pa. 90
 Wyckoff & Son, C. H., Aurora, N. Y. 162

X-Ray Incubator Co., Des Moines, Iowa. 13

Yesterlaid Egg Farms Co., Pacific, Mo. 183
 Young, D. W., Monroe, N. Y. 84
 Young Co., E. C., Randolph, Mass. 4

Zenner Disinfectant Co., Detroit, Mich. 104
 20th Century Hatch, New Washington, O. 155

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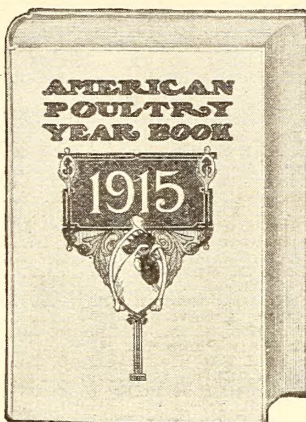
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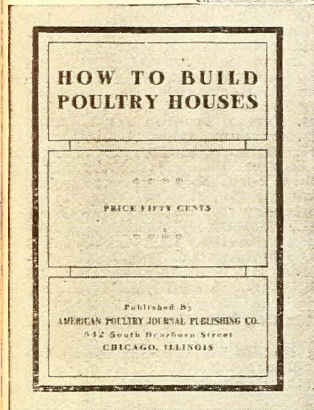
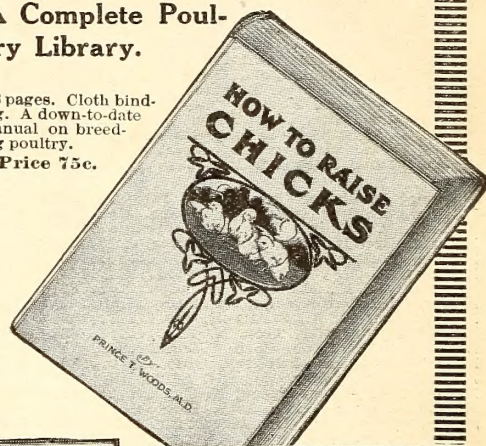
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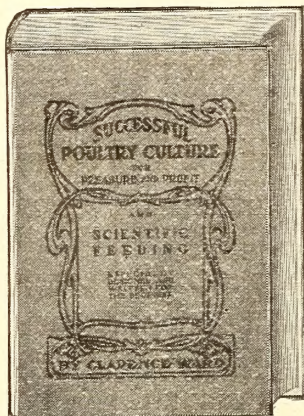
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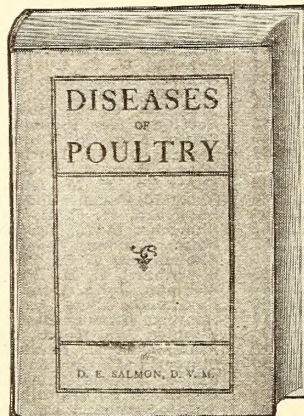
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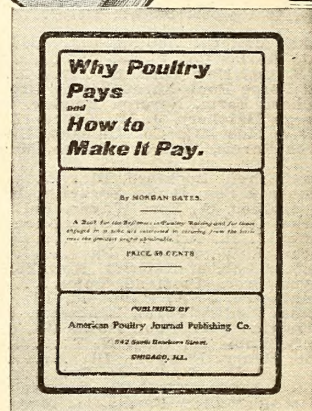
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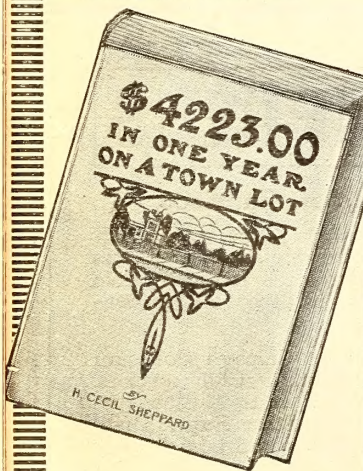


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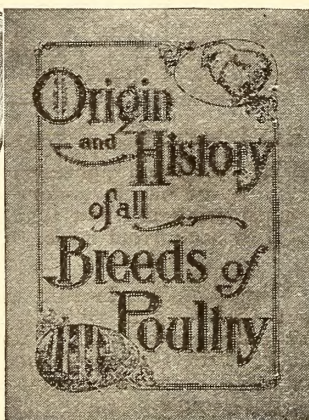


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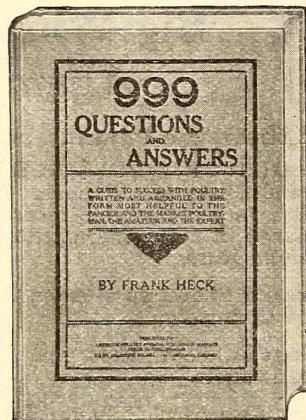
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Most any machine will hatch under ideal conditions, but if you are in the poultry business, you can't always have ideal conditions, and you must be protected against the unexpected, such as a sudden drop in temperature. The Queen regulator will take care of a sudden change of seventy degrees.

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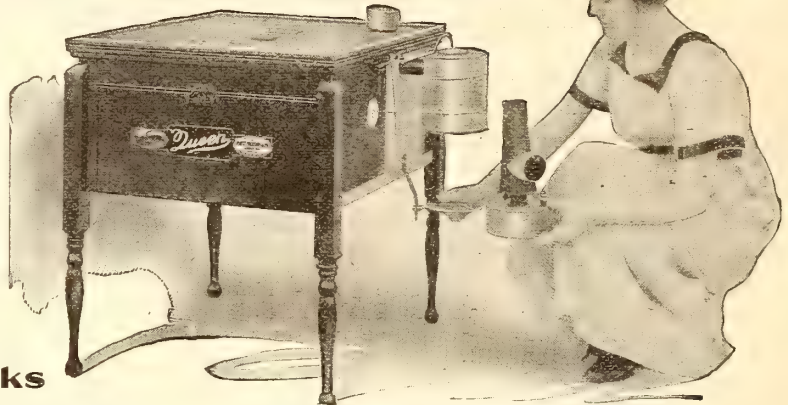
F. P. Smith & Co., Indianapolis, Ind., who sell Queen Incubators in that city, tell us that they have never known a machine that hatched such strong, virile chicks as the Queen, and that many of their customers comment on this. Last season they **hatched 2500 chicks** from Queen machines, selling \$500 worth of them, and no complaints of chicks dying. The Queen seems to start them off with great vitality—providing the best possible surroundings and conditions of moisture and heat for the chick to make the most of its start in life.

Leads Them All in Wisconsin

C. D. Adams, Mgr. Poultry Show, Milwaukee Co. Experiment Assn., Wauwatosa, Wis., wrote Oct. 21, 1915:

"For three years we have been using a Queen Incubator and Brooder in our work here in competition with eight other makes. The older students often put the newer ones 'wise' as to the incubator to use in their work, and it is not uncommon for students to ask for the Queen. I frequently put my special matings in it, and I believe it has given a **larger percentage of strong chicks** than any other machine we have, and some cost almost double what it did."

It's so easy to take care of a Queen. Nothing to do but fill the lamp and turn the eggs.



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Some hot air machines are provided with elaborate adjustments, to provide moisture—all right if they work. It is now generally admitted, however, that hot water machines are the safest. The Queen is a hot water machine.

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11 PER CENT BETTER THAN WESTERN MACHINES

John Bowen, of the Colorado Poultry Fanciers Association, wrote September 24, 1915: "Last season the writer installed a Queen as an experiment, and found that it hatched 18 per cent better than Eastern made machines and 11 per cent better than any machine in the West. All the machines were run under exactly the same conditions."

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It is costly to have a tray of eggs slip out and drop to the floor. Most of the cheap machines have no protection. Can't happen with a Queen, as it has **Self-Supporting Egg Trays.**

Before You Buy ANY Incubator Check Up Specifications With the Queen

Some machines are made of galvanized iron, or tin, or cardboard, or other cheap material that gets hot or cold quickly, absorbs odors, moisture, etc., and is liable to kill or weaken the chicks after the first few hatches.

The Queen is made of California Redwood, the best material ever discovered for incubators. Of course it costs more.

Some machines have only one real wall and consequently are not properly insulated.

The Queen has double Redwood wall—1 inch outer and half inch inner—the space between being filled with corrugated strawboard, making perfect insulation.

Some machines regulate only when temperature is uniform and everything runs right.

The Queen Regulator is a wonder. It will take care of a heat variation of seventy degrees.

What Leading Poultry Papers Say

American Poultry Journal, Chicago, writes: "During the many years you have been advertising Queen incubators in the columns of American Poultry Journal, we have not, to the best of our recollection, received a single complaint from your customers."

Reliable Poultry Journal, Quincy, Ill., writes: "We do not now call to mind having received any complaints against your machine or the manner in which your company handles its orders."

Western Poultry Journal, Cedar Rapids, Ia., writes: "In all these years that the Queen Incubator has been advertised in Western Poultry Journal, we have as yet to receive the first expression of dissatisfaction from any of our subscribers. We think this is a splendid recommendation not only for promptness and business ability but for the quality of the Queen Incubator."

Not a Cheap Machine

The Queen is not a cheap incubator, compared with many of the cheaply constructed machines on the market, but it is cheap in the long run. It will be turning out high-percentage hatches years after the cheap machines have been junked. It will be a pleasure to send you our Catalog.

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no fair-minded man will question the right of my stock to be considered the equal of the best, both in exhibition and egg-laying qualities.

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I won First and Fourth in Cockerels
I won the Coliseum Silver Cup for Best Display

I won First Young Pen
I won Second and Third Old Pen

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held its annual meet at the Coliseum, and the leading breeders of the East—the head-liners in Campinedom—were present with their exhibits. The classes were the very strongest, everyone agrees, that have ever been exhibited and

THE GREATEST HONORS WERE MINE

I won TWO of the five awards in Cockerels
I won THREE of the five awards in Hens
I won THREE of the five awards in Pullets
I won THREE of the five awards in Old Pens

I won THREE of the five awards in Young Pens
I won The Silver Campine Club Challenge Cup
I won The Coliseum Cup for Best Display
I had 48 Campines entered; 38 were placed

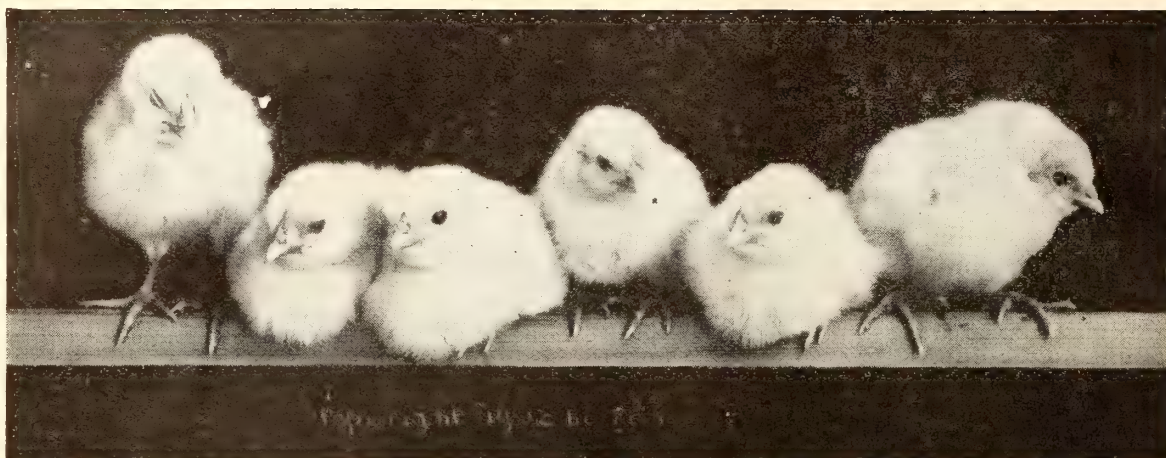
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(THE LORD FARMS)

METHUEN, MASS.

THIS business has been built up principally on good service to our customers. We have always had something good to sell at reasonable prices to the trade. We have never tried to catch a customer by unreliable advertising, and today we enjoy the confidence of hundreds and thousands of purchasers of day old chicks, hatching eggs, and breeding stock.

We have never advertised 200, 240 or 260 laying stock as being representative of our regular strain of utility breeders. We have scores of high record layers on our farms, but our layers and breeders have never yet all averaged 200 eggs for a season. We have never advertised any "get rich quick" schemes to sell our stock, and have always tried in our advertising to appeal to sensible, intelligent buyers. Our strain will average just about twice as many eggs as the average American hen, and it is the average from every bird that tells the story in profits at the end of the year.

Our Leghorns are all of one strain and are bred and kept under free range conditions on five farms. Our eggs are not gathered like some big hatcheries from all over the surrounding country. Every breeder is a selected bird that has been bred from a large white egg, and for generations have been bred from good producers.

Another good reason for the tremendous sale of our chicks has been the reasonable prices we have always made on the same.

200,000 S. C. W. Leghorn Baby Chicks for 1916

25 to 50 chicks.....17c	500 to 1000 chicks.....14½c
50 to 100 chicks.....16c	1000 to 2000 chicks.....14c
100 to 500 chicks.....15c	2000 to 5000 chicks.....13½c
	5000 or more chicks.....13c

We shall be ready with

5000 chicks a week in February
12000 chicks a week in April

10000 chicks a week in March
12000 chicks a week in May

EGGS FOR HATCHING. 90% guaranteed fertile at only \$8.00 per 100; cheaper in 1,000 lots. Special matings from high class record layers, the finest on our farms at only \$3.00 and \$5.00 for 15 eggs.

Remember we own the fourth winning pen at the Storrs International Egg Laying Contest for 1915; average egg productions, 196.2. These special matings are all headed with cocks or cockerels bred from hens with

records of over 250 eggs, and males from these pens should increase the laying qualities to a marked degree.

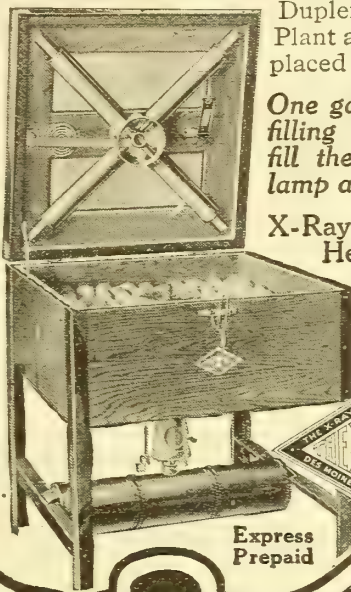
We issue a 96-page catalog which fully describes our plant, our breeding, feeding, and housing methods. It is a book that new beginners can safely follow to insure success in the poultry business, and is well worth \$1.00 for the information it contains. To obtain this book address as below:

THE EVERLAY FARM, Box 240-M, METHUEN, MASS.
(THE LORD FARMS)

103 Chicks From 106 Eggs

That's the experience of Wm. A. Foskey, Pittsville, Md. Unusual, you say? Not in the least—he owns an X-Ray.

Record hatches with an X-Ray | Poultry raisers! Note the X-Ray Incubator are the rule, not the exception; thousands of letters from X-Ray users everywhere prove that. The reason is plain—so plain and simple that it's a wonder it wasn't thought of years ago—it's the X-Ray Duplex Central Heating Plant that smashes hatching records year after year.



One gallon of oil—one filling for the hatch—fill the tank, light the lamp and forget.

X-Ray Duplex Central Heating Plant saves fuel—heats evenly and produces the biggest hatches

Express
Prepaid

The Secret of Biggest Hatches

You fill the big X-Ray Tank *just once* for a hatch. In fifteen minutes after lighting the lamp the temperature is right and kept *right* by the X-Ray Automatic Trip. This wonderful device adjusts the flame automatically—turns it up or down exactly as

needed to maintain a steady, even heat of exact hatching temperature. The X-Ray Duplex Heater distributes an even, moist heat to every part of the egg chamber—the true heat of the mother hen. Get our new FREE book—it illustrates and describes 15 special features of



X-RAY INCUBATORS AND BROODERS

It's the finest book we have ever published. Send for a copy—it's FREE. Complete in every detail, written in a common-sense way—full of wonderful illustrations. Tells all about X-Ray Incubators and Brooders. Send a postal for it tonight.

We Pay Express X-Ray Incubators and Brooders are shipped by prepaid express to practically all points—no more anxious, costly delays due to slow freight shipments. Get your X-Ray direct from largest exclusive incubator factory in the world by *prepaid express*. Send for Free Book No. 10 today.

X-RAY INCUBATOR CO., Dept. 10, Des Moines, Iowa

Fact

Fact

"Certified Layers"

ENGLISH 200-EGG STRAIN

S. C. WHITE LEGHORNS
S. C. R. I. REDS

WHITE WYANDOTTES
BUFF ORPINGTONS

Trap
Nested
Layers



Bred
to Lay
200
Eggs
Per Year



BUFF ORPINGTON
Record, 272 Eggs

"Champion Layers." WE BRED THEM.

These five White Leghorn pullets won the silver cup and seven medals in the last North American Laying Competition. This pen produced 1,139 eggs. Individuals produced 251, 250, 224, 222 and 192. Remember, we bred these

COMPETITION WINNERS

which defeated the Leghorn entries of Tom Barron and Ed. Cam. We still own them as well as hundreds of other heavy-layers carrying the same blood. A thoro-bred English Cockerel, sired a pen of five pullets that broke all records by laying 1211 eggs in the N. A. Egg-laying Competition—1915. One Pullet making an



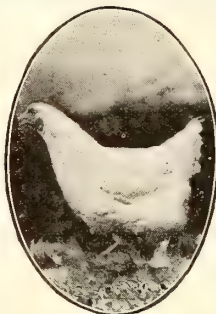
S. C. R. I. RED
Official Record, 251 Eggs

WE SUPPLY
Eggs
for Hatching

OFFICIAL RECORD OF 314 EGGS

If you want Leghorns that lay, if official egg-records mean anything to you, you should secure our strain.

Our Reds, Wyandottes and Orpingtons are also wonderful layers. We have many individuals which hold remarkable official records and this bred-to-lay blood is strong in every bird in our great flocks.



WHITE WYANDOTTE
Official Record, 265 Eggs

BABY CHICKS

Early Hatched Cockerels
Breeding Stock

at very moderate prices. And our customers know what they are getting because we have demonstrated the quality of our stock through consistent winnings in the great public laying competitions.

\$21⁰⁰

THIS—OR THIS

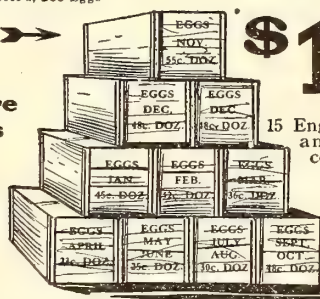


\$131⁰⁰

U. S. Statistics show average farm hen lays 80 eggs, 15 hens having an egg yield value of \$21.00.



Compare
Results



15 English hens in Missouri and North American contest laid 3145 eggs, an egg yield value of \$131.00.

Write today for copy of "THE STORY OF THE 200-EGG HEN" which contains pictures and records of our competition winners, plans of trapnest, feeding formulas and other valuable information which will help you make your flock more productive and profitable. PRICE, 10 CENTS, deducted from first order.

PENNA. POULTRY FARM
BOX "A" LANCASTER, PA.

Fact

Fact

French's Poultry Mustard

is used by many poultrymen whose birds are winning prizes at this season's leading shows. Read why. Utility men testify that it also has a distinct relation to increased egg production.

MR. A. E. Martz, President of the Coliseum Poultry Show, is but one of our many thousands of satisfied customers. Whether you breed and show fancy birds or want an increased egg production, you should know the value of adding one heaping teaspoonful of *French's Poultry Mustard* to the daily ration for every six birds. This small quantity is producing wonderful results for such well-known poultrymen as Haldie Nicholson, E. B. Thompson, C. F. Rankin, H. H. Coburn, E. S. Aldrich, H. Roberts Armstrong, H. P. Schwab, Geo. Urban, Jr. and hundreds of others.

Don't confuse *French's Poultry Mustard* with ordinary commercial Mustard, the use of which may be beneficial, but which is very expensive and not nearly so strong. *French's Poultry Mustard* is a pure Mustard Flour made from carefully selected, imported Mustard Seeds, especially prepared for use with poultry. It is many times stronger than other Mustard Flour, hence the small quantity to be used daily, and the satisfactory results as attested by our large and constantly increasing fraternity of users.

It is packed and sold by dealers in 1½-lb., 3-lb., 5-lb., 10-lb. and 25-lb. containers. These are sealed for your protection. Beware of substitutes and counterfeits. You cannot buy *French's Poultry Mustard* in bulk except in 50-lb. and 100-lb. drums and 200-lb. barrels thru your dealer, to be shipped direct from factory to you. The 10-lb. and 25-lb. containers sell at 20c per pound, f. o. b. dealer's point; the bulk quantities a little less, and the smaller packages a little more per pound. When fed continuously the cost

does not exceed 10 cents per hen per year—half that for just the winter months.

If your dealer can't supply you, send direct to us. Any quantity will be sent or your order referred to our nearest dealer when we can effect a saving for you on carrying charges by so doing. We have a 32-page booklet, "Mustard: Its Relation to Poultry and Increased Egg Production," which will be sent free for your dealer's name. Your birds need *French's Poultry Mustard* now.

The R. T. French Co.,
Rochester, N. Y.

September 6, 1915.

Gentlemen:

When I began the use of FRENCH'S POULTRY MUSTARD I had nothing in mind but its stimulating effect as a condiment, but I have wonderfully changed in regard to this after a prolonged use, as our flock of Fashion Plate Buff Orpingtons has taken on most wonderful vigor and our egg production increased to a very marked degree.

I add one pint of FRENCH'S POULTRY MUSTARD to my formula in building up a bushel of dry mash, and this quantity has proven to be the right proportion.

Our supply is running low and will, within a short time, send an additional order.

Sincerely yours,

(Signed) A. E. MARTZ.

SCHENLEY HEIGHTS POULTRY FARM

Pittsburgh, Pa., June 10, '15.

The R. T. French Co.,
Rochester, N. Y.

Gentlemen:

I most heartily endorse the regular use of *French's Poultry Mustard*. Am assured that it stimulates and adds vigor to the birds. My Single and Rose Comb Rhode Island Reds have never done better, never were better, and have never laid more eggs than this season. They have been kept in the best of health and have given the results we all wish for. The regular and liberal use of "French's Poultry Mustard" insures poultry success. I remain,

Yours very truly,

(Signed) C. F. RANKIN, Prop.

Amenia, N. Y., June 22, 1915.

R. T. French Co.,
Rochester, N. Y.

Gentlemen:

Allow me to express my high appreciation of *French's Poultry Mustard*. I have been pleased to recommend this Mustard since 1912, and I am now more convinced than ever that it is a healthful tonic, and that birds receiving it regularly are much better for its use. My Imperial "Ringlets" with their World's Records appreciate it; they were never better in shape, color and size than now.

Very truly yours,

(Signed) E. B. THOMPSON.

Columbus, Ohio, Station B, September 17, 1915.

Gentlemen:

French's Poultry Mustard has given us most satisfactory results and we advise its use at all times. There is no doubt but that it has benefited our entire line more than we can estimate. The health, vigor, bone and size of our White Orpingtons have been widely commended, all of which has placed them World's Champions at New York and other leading shows. We feel that *French's Poultry Mustard* is a necessity to poultry success.

Very truly and sincerely,

ALDRICH POULTRY FARM.

Marysville, Mich., Sept. 22, 1915.

The R. T. French Co., Rochester, New York.

Gentlemen:

I have every reason to highly recommend *French's Poultry Mustard*, for we feel it is a necessity to obtain the best results and to keep the fowls at their best all the time.

Our Red and Speckled Sussex are naturally a very vigorous and hardy, quick growing breed, still no harm can come from the constant use of your Mustard, but unquestionably all fowls derive much good from it. It is invaluable as a show conditioner, as it adds beautiful luster to the plumage and tones them up in the close confinement. Our Sussex stand today as evidence of its worth.

Very truly yours,

(Signed) H. H. COBURN.

Owner and Manager Red Sussex Farm.

THE R. T. FRENCH COMPANY, Dept. A., Rochester, N. Y.

Poultrymen, Buy Now

Our Lumber Prices are Still Down



473 No. 109
Five Rooms, Bath,
Pantry, etc.



No. 61
Six Rooms, Bath,
etc. **\$583**



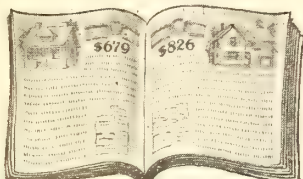
\$620 No. 182
Five Rooms, Bath,
etc.



No. 185
Seven Rooms, Bath,
Den, etc. **\$931**



\$201 No. 46
Barn, Large, Light.



FREE! BOOK OF 100 HARRIS HOMES, BARN, ETC.

This book shows our House, Barn, Garage and Apartment Designs in beautiful halftone engravings. Also shows floor plans, material lists, complete information, and details of the HARRIS WAY. Mailed free anywhere. Send coupon on opposite page.

Blue Prints and Specifications

We will furnish complete Building Blue Prints, Specifications and Material List to build any design on this page for \$1.00.

\$229 Buys a Whole Carload 15,000 Feet of Lumber

This year we are offering a carload of lumber at the lowest price we have ever made—right in the face of a swiftly advancing lumber market. If you are figuring on doing any building at all during 1916, do not hesitate to send us your order right away. Prices are going sky high, and will probably stay there.

At the above price we will furnish 15,000 feet of brand new, good lumber, guaranteed grades. Our offer includes timbers, dimension boards, siding, flooring, ceiling and patent lath. Shipment DIRECT TO YOU from our new mammoth mill and manufacturing plant. We are able to make this tremendous offer only by eliminating all in-between profits, eliminating re-loading and re-shipping charges, sending you a full carload direct of the kind of lumber you want, as in our \$229.00 Lumber Bargain Offer. YOU get the benefit of all the savings in freight and handling charges.

Send coupon in the right hand corner of opposite page today and ask for our \$229.00 Offer.

BUILD YOUR HOME THE HARRIS WAY SENSIBLY CUT-TO-FIT

The most economical and up-to-date way to build your new home is THE HARRIS WAY—Sensibly Cut-to-Fit—the best of all cut-to-fit methods. We send you all materials Sensibly cut-to-fit, and furnish you our Blue Print Plans and Specifications with Material List, so that you can build your home at a saving of one-half to one-half over building the old-fashioned way. Such well-known poultrymen as C. V. Keeler, John Menkin and others have built their homes the HARRIS WAY, and realized great savings together with freedom from trouble, care and worry.

First, we give you the materials SENSIBLY CUT-TO-FIT the HARRIS WAY, at prices that absolutely save you hundreds of dollars. Then by our wonderfully efficient building plan, which cost us thousands of dollars to perfect, you save tremendous amounts in building expense and freedom from waste and other losses. The HARRIS WAY is the result of twenty-four years of expert building experience and study.

Send the coupon for your copy of our free Book of Plans.

Standard Iron Pipe

3c 

This pipe is coated with black asphaltum rust-preventer before shipment, so that you get your material in good condition. 1 in. black pipe shown here for 3c per foot. You can order direct from this ad by order No. 6-AF-5. Do not fail to send for our big free Plumbing and Heating Book.

Closet Outfit, \$9.98



Complete

We furnish here a great bargain special to poultrymen. This elegant low tank closet outfit, guaranteed "A" grade material, nickel-plated trimmings. Splendid value. Order No. 5-AF-902. You can easily install your own outfit with the aid of our big free Plumbing and Heating Book.

Save Half On Rugs

We buy the finest rugs at auctions direct from the manufacturer. All grades, patterns and colors. See them in actual colors in our Furniture and Rug Book. Good 9x12 rug, at \$3.38 36-inch Axminsters..... .87



Galvanized Hog Trough

\$1.25 

These Galvanized Hog Troughs are one of our greatest bargains for the farmers. 5 ft. long by 1 ft. wide, 6 in. deep. Made of heavy galvanized iron. You can order direct from this ad by No. 8-AF-305.

Saved \$510.00

READ THIS LETTER

Greensburg, Pa.
Chicago House Wrecking Co.

As to quantity and quality of material furnished me for my home (No. 131), I am highly pleased.

I have made a saving of \$510 and have had sufficient material for the smallest detail. I could not have duplicated this design for twice the amount paid your firm. Also might state further that Plans and working sheets for this design worked out to the letter.

I am always your friend for your fair and courteous treatment.

Yours respectfully,
H. A. HENRY, P. O. Box 516.

Harris Vacuum Sweeper

\$3.79

Poultrywomen!

This Harris Vacuum Sweeper takes the drudgery out of house work. It is a combined suction cleaner and sweeper; the kind that sells everywhere at \$10.00. Made of nickle-plated and oxidized metal parts. Ball-bearing wheels. You can order this direct from this ad. Shipping weight 14 pounds. Lot No. 19-AF-4000. Many big money-savers for you in our Furniture and Household Goods Catalog.



Tank Heater, \$4.39

Cast Iron, Self-Sinking

Made of cast iron in one piece. 12 in. wide, 2 ft. high. Needs no rods to hold it down. Can be used in any kind of tank. Equipped with grates and ash tray, 2 ft. of smoke stack with damper and hood. Burns coals, wood or coal. Order No. 4-AF-1985.



100 Pounds of Nails

\$1.50 Buys Keg

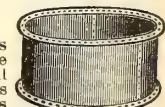
Handy assortment. Come in 100-lb. kegs, from 3 to 40-penny nails mixed. Only one of many bargains in our building catalog. Order No. 2-AF-4055. 100 pounds of mixed nails, \$1.50.



Galv. Storage Tank

\$4.55

All kinds of storage tanks in all sizes. This tank is made of 20 gauge galvanized steel. Strongly riveted seams. Capacity 3½ barrels. Order No. AF-1801. Same tank, capacity 9 barrels. \$6.95.



Our Big Paint Values 50c Gallon

In Ready-Mixed Paints, we absolutely have no competition for values and low prices. Get our free Paint Book and see the colors yourself. We guarantee every drop. We still keep our paint prices down so our customers may benefit by our Price Wrecking.



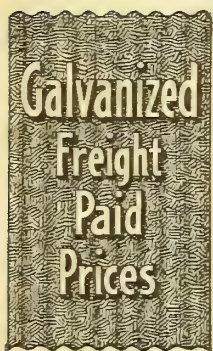
Chicago House Wrecking Co.

Thirty-Fifth and Iron Sts.

CHICAGO, ILLINOIS

Save $\frac{1}{3}$ to $\frac{1}{2}$ in Money

Greatest Roofing Values of the Century



Prices below are F. O. B. Chicago.

Painted sheets, \$1.34 per sq. of 100 sq. feet. Order No. 13-AF-710.

Galvanized, Sq. \$2.22. Order No. 13-AF-710.

Write for Freight-Paid Prices.

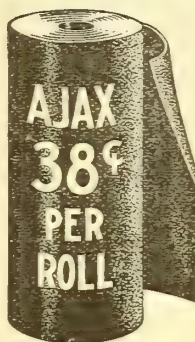
Thousands of Poultrymen have saved big money by buying our Roofing and other Building Materials for their plants from us. They know our Reliability and our Price-Wrecking ability.

We absolutely have no competition in roofing values. Our stocks are shipped from our own big manufacturing plant right in Chicago, and our ten million-dollar capital backs our guarantee of a square deal and honest merchandise.

Our Ajax Roofing is a high-grade covering, suitable for your house, barn or poultry sheds.

On Galvanized, we save you almost 50 per cent. We can furnish "V" crimped, corrugated, standing seam, beaded ceiling, and all kinds of metal roofing for every purpose.

You can order these big snaps directly from this ad with perfect confidence, or send for our new Roofing Price-Wrecker. Tell us your needs, how much roofing you want, when you expect to build, etc., and we will quote you freight-paid prices on any of these materials. All prices quoted here are F. O. B. Chicago, not freight prepaid.



Ajax $\frac{1}{2}$ -ply, 38¢ per roll. 1-ply, 75¢; 2-ply, 86¢; 3-ply, 96¢, all complete with nails and cement. Order No. 7-AF-310.

For other big roofing bargains, get our new free Roofing Book.

Tar Paper 25c per Roll

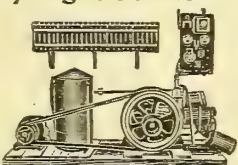
A special lot of 2-ply Tarred felt. Rolls were subjected to pressure in our warehouse and are slightly jammed at the ends, otherwise good. You can order direct from this ad by Order No. 7-AF-113. 108 sq. ft. to roll, 25c.

Rumely Light Plants

\$265

Buys 75-Light

In our purchase of Rumely merchandise we secured a large number of complete Electric Light Plants. They are simple, safe, economical. Anyone can run them. Built with the famous Rumely-Falk engine, standard Willard storage batteries. Can be used for lighting or general power purposes. This 75-light plant, Order No. 36-AF-87, \$265. For full information, get our Machinery Catalog.



Rumely Separators

\$29.50

For a 500-Pound

Only \$29.50 for a genuine Rumely 500-lb. Cream Separator, equipped with the new patent distributing blades. Skims a gallon per minute, good for twenty years, quiet, smooth running, simple, strong, interchangeable parts. Skims closely, thick or thin cream as desired. No loss of butter fat. Guaranteed perfect.

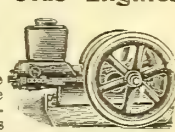


Rumely - Olds Engines

\$31.00

Buys 1 3-4 H. P.

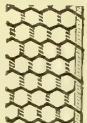
Here are positively the greatest engine values ever offered. These famous Rumely-Olds Gasoline Engines for a mere fraction of their real value. We have all sizes from $\frac{1}{2}$ to 65 H. P., Stationary, Portable, Direct Connected to Pumps, Hoisting and Saw Outfits. All brand new, guaranteed perfect, for quick shipment. Get amazingly low prices, full description, etc., in Machinery Catalog.



Poultry Netting

62c Buys 150 Feet

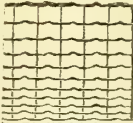
This Poultry Netting is made of galvanized steel, strictly new, clean stock, 150 lineal feet to the bale.



You can order direct from this ad. For other big values, get our free Wire and Fence Book.

Poultry Fence, 30c Rod

This 48-inch Combination Farm and Poultry Fence is constructed of 15 line wires, spaced closely together at bottom, so small chicks cannot go through. Price per rod, 48 in. high, Order No. 2-AF-19, 30c. For other big fence, wire and nails values, get our free Wire and Fence Book, by sending the coupon in corner.



Steel Posts

14c Each

Tubular Steel, complete with three wire clamps. Diam. 2 in., heights 4 to 10 ft. Coated with rust preventing asphaltum. Price, for 4-ft. post, 14c each. Order No. 2-AF-1478.



Big Snaps From Our Poultry Supply Book

Galvanized Poultry Troughs, 30c

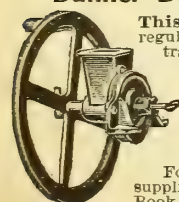
Made of heavy galvanized iron and come in pairs riveted together. Each trough is 36 in. long, $\frac{3}{4}$ in. wide and $\frac{1}{2}$ in. deep. Painted with black asphaltum paint before shipment. Weight per pair, 10 pounds. Order No. 8-AF-324. Price, each pair, 30c; 6 pairs, \$1.50; 12 pairs, \$2.75.



Banner Bone Mill, \$1.97

This Banner Bone Mill is a regular \$4.00 value. It is made extra strong, and will grind bones, oyster shells, small gravel, crockery, etc. Is equipped with a crusher and burrs, which can be adjusted to grind fine or coarse. Order No. 8-AF-9021. Bone Mill, \$1.97.

For other bargains in poultry supplies, get our Poultry Supply Book, by sending coupon in corner.



Famous Little Giants; Incubator and Brooder

They are small unit types, and consequently bring a large percentage of success. Made of metal except for the heavy glass top. Incubator is equipped with double-wafer thermostat warm air heating system. Brooder is also all metal except the flannel hover. Equipped with hot water heating system. This is an ideal combination for use with prize eggs or on a small farm for regular work. Special to poultrymen this year at the bargain price of \$6.95 for both. Both machines are 60-egg capacity. You can order them direct from this ad by Order No. 8-AF-298.

For the Little Giant Incubator separately, \$4.80. Order No. 8-AF-299.

For the Little Giant Brooder separately, \$2.50. Order No. 8-AF-297.



\$6.95

Buys Both



60-Egg



**THESE BOOKS FREE
MAIL COUPON NOW!**

C. H. W. Co., Dept. AF-8.

Send me free books marked (X).

- | | |
|---|---|
| <input type="checkbox"/> Roofing | <input type="checkbox"/> Book of Plans |
| <input type="checkbox"/> Fencing | <input type="checkbox"/> Pl'b'g and Heating |
| <input type="checkbox"/> Paint | <input type="checkbox"/> Lumber Price List |
| <input type="checkbox"/> Machinery | <input type="checkbox"/> \$229 Lumber Offer |
| <input type="checkbox"/> Furniture | <input type="checkbox"/> Building Material |
| <input type="checkbox"/> Poultry Supplies | |

Information on

Name

Address

Chicago House Wrecking Co.
Thirty-Fifth and Iron Sts. CHICAGO, ILLINOIS

BROODER AND CHICKS FREE

READ THIS GREAT OFFER

To introduce my improved System of keeping poultry I will give **SIX THOROUGHbred BABY CHICKS** and small **BROODER FREE** with order for **BOOKS** and **PLANS** that tell all about the wonderful discoveries in **POULTRY** and **FARM** work. You can have the benefit of my forty years' experience that has resulted in the greatest profits ever made on a poultry farm.

THE PHILO SYSTEM

is unlike all other ways of keeping poultry and in many ways is exactly the reverse, accomplishing things in poultry work that have always been considered impossible, and getting unheard-of results that are hard to believe without seeing.

This new system covers all branches of the work necessary for success from selecting the breeders to marketing the products. It tells how to get eggs that will hatch, how to hatch nearly every egg, and how to raise nearly all the chicks hatched. It gives complete plans in detail how to make things necessary to run the business and at less than half the cost required to handle the poultry business in any other manner.

One of the secrets is to save the chickens that are fully developed at hatching time, whether they can crack the shell or not. It is a simple trick and believed to be the secret of the ancient Egyptians and Chinese which enabled them to sell the chicks at ten cents a dozen.

101 W. 3D ST., FREDERICK, MD.,
JULY 23, 1914.

E. W. PHILO,

DEAR SIR:—I have been following your system for four years and have been very successful. This past February I had a few chicks to hatch and one chick at six weeks old weighed two and one-half pounds. I felt very proud. Last fall at the Frederick County Fair, I carried first prize and first sweepstake prize for eggs. I consider your system the root of it all.

Yours truly,
MRS. HUGH DEAN.

Philo System Book, Postpaid, \$1.00.
Three Sets of Coop Plans from drawings showing the exact size and shape of every piece of wood, postpaid, \$1.00.



Brooder-Hatcher, complete, \$8.00

Philo System Book, 3 Sets Coop Plans, the New Book, "Farming," and a Brooder-Hatcher, complete, all for \$10.00.

If ordered direct from this advertisement I will give you a premium of Six Baby Chicks, a Brooder and Chick Feed FREE.

The "CYCLE" and "BROODER-HATCHERS" produce the LARGE, FLUFFY kind of chickens that come out of their shell with a determination to live and grow into PROFITABLE POULTRY. With these machines we find it so easy to hatch chicks that we can offer them for premiums by the thousands. The success of every poultry business is in the reproduction of the best poultry at the smallest cost. The CYCLE will help you as it is helping more than two hundred thousand poultry keepers in every section of the world. Read the following letters:

RAMONA, CAL., NOV. 6, 1915.

E. W. PHILO, ELMIRA, N. Y.

DEAR SIR:—As I am so well pleased with the ten incubators and twenty brooders ordered of you last April, I have decided to increase my plant. Enclosed you will find draft for which please send me twenty more Cycle Hatchers. Please rush. Yours truly, GEO. R. COMINGS.

FARMING WITH ALFALFA

The new farm book tells how to grow alfalfa successfully on nearly all kinds of land and why so many farmers have not been successful when trying to grow it. It gives advice about selecting a farm for a good investment, preparing the land, seeding, harvesting and marketing. How to convert alfalfa into cash, how to run a farm profitably without stock and at the same time keep up the fertility of the soil, or how to get the largest profits from stock raising, how to increase the milk production of a dairy without feeding grain, how to make poultry on the farm pay the largest profits, how to produce strong, fertile eggs, how to hatch and raise the chickens at the smallest cost for feed and labor, how to handle many things that often go to waste on the farm and turn them into profit, how to provide an abundance of everything good to eat for the table at a great saving in cost. Complete, easy-to-follow instructions will be furnished in book form, not a large, difficult book of theory, but a small one full of facts not generally known.

The alfalfa plant draws nitrogen from the air and fertilizer from the earth at a greater depth than can be reached by modern machinery and in greater quantities than the farmer can afford to buy, it puts new life into the soil and gathers by its own efforts the essential elements for growing plants to perfection. **Farming book, postpaid, \$1.00**

SELLERSVILLE, PA., JUNE 16, 1913.

E. W. PHILO, ELMIRA, N. Y.

DEAR SIR:—We are pleased to notify you that the Cycle Hatcher is the winner of our extensive Incubator contest, making the remarkable record of a 100 per cent hatch and the only machine in the contest that made a perfect record.

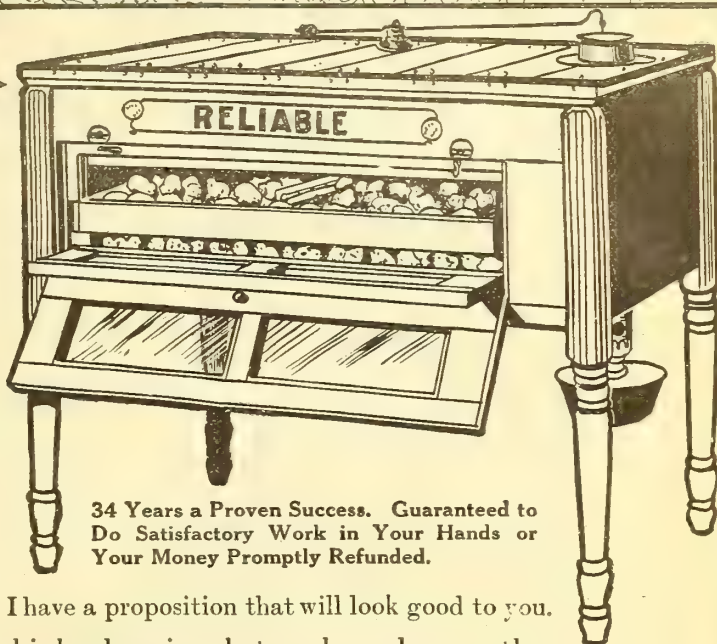
THE ITEM PUBLISHING COMPANY.

I will send you by return mail the PHILO SYSTEM BOOK, my new book, "FARMING," and three sets of COOP PLANS for \$3.00 and will give you absolutely free 6 THOROUGHbred BABY CHICKS and BROODER. Order direct from this advertisement and I will include free of charge a package of chick food to give the PREMIUM chicks a good start. Catalogue Free.

E. W. PHILO, 1686 LAKE STREET, ELMIRA, NEW YORK

**1/2
Million
Poultry
Raisers use
THE RELIABLE
INCUBATOR**

Get My Sensational 1916 Incubator Offer!



34 Years a Proven Success. Guaranteed to Do Satisfactory Work in Your Hands or Your Money Promptly Refunded.



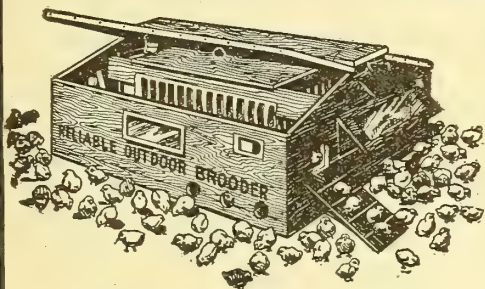
J. W. MYERS, Pres.
Reliable Incubator
& Brooder Co.

If you are in the poultry business with a cheaply built, unsatisfactory incubator, or if you are about to go into this profitable business with a small amount of money, I have a proposition that will look good to you.

The prices of really high class incubators have been rather high, and many people have bought cheaply built machines which proved to be unsatisfactory, with the result that they lost faith in all incubators.

Now, in this, the 34th year of my remarkable success with the **Old Reliable Incubator**, I am going to place one or more of my Old Reliabilities in every county in the United States, and at a low price.

I Want You to Let Me Give You My Startlingly Low Price on This World-Famous Machine



My Reliable Brooder will save you money on young chicks. They take care of the little chicks better than the hen, and are ready for work all the year round. They are built in all sizes, on scientific principles, for either outdoor or indoor use, hot-air or hot-water heated. You can't get along without a good brooder if you want the best results in the poultry business.

and let me tell you what sort of a hatching machine the Old Reliable is, before you risk your money on any other.

In this limited space I can give you only a few facts about the Old Reliable:

It has been on the market 34 years.

It is in use at many government experimental stations—U. S. Government, State Governments, and foreign governments.

It has **never been beaten at any competitive exhibition**—national,

international, state or county—holds **over 1200 First Prizes** awarded on superior merit.

It is the favorite incubator of the big professional poultry raisers, the successful incubator for amateurs—**nearly half a million now in constant use.**

The Reliable is the Only Incubator With a Double-Heating System

combining hot air and hot water. Copper hot water tank extends entire length of egg chamber, holding a large body of hot water over the eggs at all times—maintains the proper hatching temperature in any kind of weather.

The Reliable Incubator is built of the very best kiln-dried redwood, with double walls, top and bottom tongued and grooved. Has the most sensitive and accurate regulating system; moisture and ventilation perfect, and a Government Tested Standard Thermometer. Has double glass doors, roomy chick nursery—in fact, it is the recognized standard hatching machine of America, made in the world's biggest incubator factory.

Guaranteed to Hatch Every Hatchable Egg, Regardless of Climate, Altitude or Weather

and now sold at a price that makes it the biggest incubator bargain ever offered to the poultry world.

I want to call your attention also to my Reliable Bantling Incubators at sensationally low prices. They are world-beaters on quality and price.

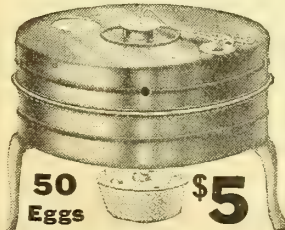
If you will let me give you full information about the Reliable, and get my prices before you buy a machine, I can save you trouble and money.

J. W. MYERS, Pres.
Reliable Incubator and Brooder Co.
Box A-1 Quincy, Illinois

Write for my 34th Annual **FREE Poultry Book** of 100 pages, with many illustrations. Gives much practical information on poultry raising based on 40 years experience.

The Baby Grand Incubator

is the sensation of the day in the incubator world. A 50-egg, all-steel machine, with double walls, scientific regulation; guaranteed successful in your hands or money refunded. Will hatch every hatchable egg in any climate or weather. Sent complete, ready to work, charges paid, and with full directions for operating. **Price only \$5**, cash, check or postal order. This incubator enables you to get into the poultry business at little cost and be sure of the best results. We refer you to any bank as to our responsibility.



50 Eggs \$5

J. W. MYERS, President

Reliable Incubator & Brooder Co.

Box A-1 Quincy, Ill.

Enclosed find (check, money order, or cash) for \$5.00, for which please send me a Baby Grand Incubator, with full directions for operation, all charges paid. My money is to be returned if machine does not prove satisfactory in my hands.

Please send me further information regarding the Baby Grand Incubator.

My Name

P. O. State

R. F. D. or St. No.



Let Poultry Experts

HERE are a few expressions from poultry experts whose names and winnings are known to poultry raisers everywhere. They represent the highest success in every line—show birds, market birds, layers.

Charles Thorgren: "Red Comb is the best conditioner I ever saw. I have fed Red Comb for more than eight years."

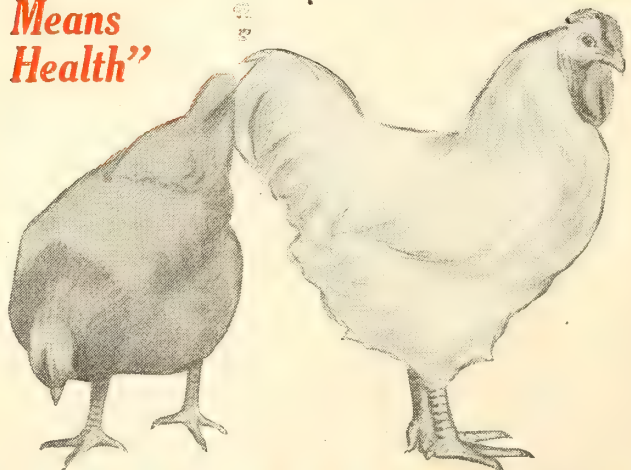


Red

**T. E. Quisenberry Says:
"We Feed Red Comb"**

in his paper on "Feeding Chicks from the Shell to the Gravy" in our free book "Feeding Poultry for Profit." Mr. Quisenberry had charge of the government poultry exhibit at the Panama Exposition. He has a record of making 1000 hens pay a net yearly profit of \$4580.

**"Red Comb
Means
Health"**



Tell You the Secret

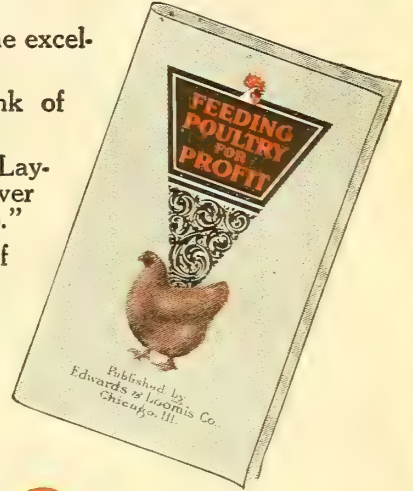
Mrs. J. H. Harnley: "The high honors accorded my birds proclaim loudly the excellent conditioning value of Red Comb Feed."

J. E. Young: "Red Comb makes the hens lay and keeps them in the pink of condition."

C. E. Reed: "My five White Plymouth Rock hens in the International Egg Laying Competition were the heaviest laying pen of White Plymouth Rocks ever recorded in competition. They were raised and conditioned on Red Comb."

Eugene C. Smith: "You noticed the fine condition and luxurious plumage of the first White Leghorn cock bird particularly. I would not be at all surprised if the high quality of Red Comb Poultry Feed and Meat Mash on which my prize birds were raised had something to do with this."

F. E. Harrison. "As the largest breeder of Single Comb Rhode Island Reds in the world I can truthfully say that 'Red Comb' is a peer as a conditioner and its quality is the best."



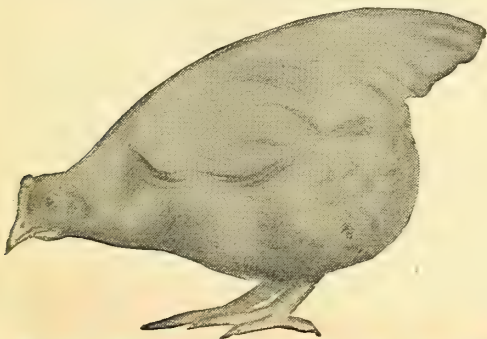
Comb

Red Comb is a scientifically balanced ration—ground from the finest whole grains—mixed by experts—backed by 45 years' experience. *Red Comb contains*

the minimum of grit. Percentage guaranteed on each bag. Made with no grit if preferred. Feed Red Comb and join the profit makers.

Your name on a postal card brings our FREE BOOK, "Feeding Poultry for Profit," written by six great poultry experts—or ask the Red Comb dealer nearest to you

Edwards & Loomis Co., 344-MN. Elizabeth St., Chicago



*Also
Manufacturers
of the
Famous Line of
Red Horn
Dairy Feeds*





Join the World's Champions for Greater Chicken Profits!

"In twenty-five world's greatest matches Belle City won with perfect hatches"

MY big free book, **"HATCHING FACTS,"** which I will send you postage prepaid for your name and address, gives the whole wonderful story of the Belle City World's Championship Prize Winnings. The winners themselves tell of their wonderful success in their own words. But the Belle City Championships are only part of the story. Hundreds of thousands of men, women, boys and girls in all parts of the country are getting high percentage and perfect hatches—and making *biggest chicken profits*—with my World's Champion Belle City Incubator and my World Famous Belle City Brooder. *And you can do the same.* Owners of



JIM ROHAN, Pres.

Belle City

Incubators and Brooders

"An outfit made for hatching that there's no such thing as matching"

"It incubates in all the states"

have led in poultry profits, just as they have led in World's Championships, for many years. The letters from users, printed in my Big Free Book *prove* it. Get the book with all the facts, proofs, particulars. It shows

100 Actual Photographs of Prize Winning Hatches

Whether you want to enter a contest or not, you do want to make the *paying profits* from highest percentage hatches, and highest percentage of chicks raised. You can do it with my World's Champion Incubator and my World Famous Brooder. What better assurance can you have than the signed personal word of people who have done it and are doing it? Many of the winners never ran any incubator before they got the Belle City.

**Write
Today**

Belle City hatching outfits make these records every year everywhere, under all conditions—in competition with all other machines of whatsoever make or price.

Get My Low Prices

Same as Last Year

Why pay high prices when you can have my Belle City Incubator and Brooder, proved winners, *at my low prices?* (Same as last year.) Before you decide on any incubator and brooder write to me and see how much I can save you.

Send a letter or postal card to me today and my book, "Hatching Facts," with all information will come right back to you

Send Today for My Big FREE Book

"Hatching Facts"

It is the greatest portfolio of practical hatching information ever published — a sure guide to profits that should be in every poultry raiser's hands, old and young—brimful of good, sound information that will interest fathers, mothers, sons and daughters. And remember it is free.

Your name and address brings it. A postal will do. With the book comes my 10-year personal money-back guarantee—my one, two or three months' home test. Also the best opportunity anyone ever had to make extra money with a hatching outfit—

My \$1300.00 Gold Offers

Conditions so easy anyone may receive biggest pay

Learn how I paid one Belle City user \$156.25—another \$50.00 two others each \$45.00—and many others from \$33.00 down

The free book illustrates and fully describes my 25 Times World's Champion Belle City Incubators and World Famous Belle City Brooders—tells how they are made—shows them in actual colors. These great, big colored pictures give you an exact idea of this wonderful hatching outfit—402,000 in use—the kind used by all the Belle City World's Championship Winners—the kind used by the U.S. Government Department of the Interior—the kind used by Agricultural Colleges—the kind that won the gold-lined silver "Tycos" cup—the kind that will give you hatches that you will be proud of—the kind that will win big cash profits for you—the kind that will put you into the Championship Class from the start.

*"Simply beats the dickens
How it hatches out the chickens"*

Book shows that Belle City has everything worth having in and on an incubator, copper tank, double disc self-regulator, safety lamp, double walls and double door and dead air space all over, with roomy nursery and strong egg tray. "Tycos" thermometer, egg tester, Miller sun hinge burner, funnel, everything you need, including valuable instruction book on operating, hatching and care of chicks. The book tells you all about my World Famous double walled top heat Belle City Brooder, guaranteed to raise largest percentage of chicks every time—a fitting companion to my World's Champion Belle City Incubator.

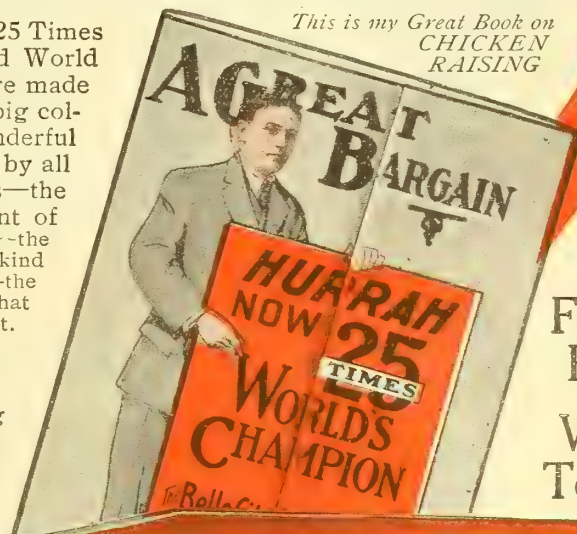
Remember my free book—my 10-year money-back guarantee—my low price, freight prepaid—my \$1300.00 Gold Offers—everything comes to you just as soon as I receive your name and address. Write me today.

Jim Rohan, Pres.

Belle City Incubator Co.
Box J27, Racine, Wis.

*"Adds a
Money-Making Charm
to the Poorly Paying Farm"*

*This is my Great Book on
CHICKEN
RAISING*



Get
This
FREE
Book
Write
Today

No
One
Else
Can

give you so much hatching value for so very little money. I ship quick from Kansas City, Minneapolis, Buffalo or Racine.

Get My Low Price
1,-2,-3-Months'
Home Test Plan
Freight Prepaid

Same as Last Year

Aldrich White Orpingtons

"The Strain of Quality"

If you are not satisfied with the variety of poultry you now have, try the White Orpingtons and secure your foundation stock from the Aldrich Poultry Farm, who have



First Cock, Chicago Coliseum, 1915

Combined Show Qualities with High Egg Production

and you will realize a handsome profit, as you can then advertise Aldrich Strain White Orpingtons and get good prices for your stock and eggs.

The demand for White Orpingtons is steadily increasing as it is now generally realized that no other breed will lay eggs of as great a value during the year. This is shown by the official records at the National Laying Contest this season where an Aldrich Strain Wh. Orpington pullet led the entire contest for ten months, laying 200 eggs, 110 of them in the winter months, a total value of \$5.70.

No other variety of chickens is more gentle, beautiful, or easier to grow, and hardiness, quick growth and vigor are White Orpington characteristics. The Aldrich Strain White Orpingtons lead all varieties of poultry in

High Egg Production and Show Qualities Combined

the combination that pays. Why not take these facts into consideration and purchase your foundation stock from a strain that is

Bred to Win as Well as to Lay

when you can obtain it at prices no greater than asked by any reliable breeder who produces trap-nested stock only for egg production but not good enough to show. Remember it is quality that pays in the long run.

During the past three years Aldrich White Orpingtons have won more First Prizes at Chicago and Madison Square Garden than all our competitors combined.

During the present season at America's four greatest shows, Allentown, Buffalo, St. Louis and Chicago Coliseum Aldrich White Orpingtons, on 46 entries, have won 38 regular prizes, 21 special prizes, including 17 first prizes and 11 second prizes, making a record never before equalled by any one breeder of Single Comb White Orpingtons in America. Our First Prize Cockerel was the sensation of the Chicago Show and these birds won in the strongest class ever shown in America.

Our Customers Also Won

a large number of the prizes offered in this show as well as hundreds in shows in all parts of America, including the Great Panama-Pacific Exposition and the Grand Central Palace, New York.

Prices of Stock

Cocks and Cockerels, \$5, \$10, \$15, \$25, \$50 Trios - - \$10, \$15, \$20, \$25, \$50, \$75
Hens and Pullets, \$3, \$5, \$10, \$15, \$20, \$25 Pens - - - \$15, \$25, \$50, \$75, \$100

For full description of the quality of stock and of the mated pens write for our new catalogue and mating list which is free if you mention the A. P. F.

ALDRICH POULTRY FARM

5070 N. High Street

Columbus, Ohio



First Cockerel, Coliseum, 1915

3 Sizes
Brood
Up to
1000
Chicks.

THE MACKAY

Colony Brooder

The original coal-burning, self-regulating Colony Brooder that broods up to 1000 chicks in one flock, in one building, with much less expense than an equal brooding capacity burning oil or gasoline.

Just Compare this "Better" Brooder With Its Bottom Draft

point for point with other brooders and you will see why it is called the "better" Brooder. Every stove you ever used had a bottom draft below the grate and below the fire, the same as the MacKay Colony Brooder Heater.

To make the fire burn up and produce more heat quickly, a bottom draft *below* the fire is absolutely necessary. To raise more and better birds, it is absolutely necessary that more heat be produced quickly when the weather suddenly changes colder, to keep the babies warm, comfortable and healthy.

The bigger and heavier MacKay Heaters are made completely of cast iron. The rocking duplex grate grinds down the clinkers every time, and keeps the fire burning around the edges. The heater base is always cool, and no hot coals can fall into the litter which insure absolute safety from fire.

The heavy galvanized iron deflectors last a lifetime. The mechanically perfect and accurate double temperature regulator compels a correct heat for the chicks all the time, no matter what the weather. The special construction of the regulator prevents the escape of gas into the room.

The conical deflector first directs the heat down toward the floor, over the backs of the chicks, and then warms up the room to a comfortable temperature so that the babies will leave the Brooder and exercise and keep in good condition.

Junior Size—Two Other Sizes

The MacKay Junior is the greatest value ever offered, as it has exactly the same operation and double regulation—with top and bottom drafts—as the two larger and more expensive models, and is made from the same strong and lasting materials.

The MacKay is the original self-regulating Colony-Brooder of its kind, the first on the market, the longest in use and the one that has passed the real test of time.

Big Illustrated Catalog Free

Write today for handsome catalog that fully describes and illustrates the many advantages of the MacKay Colony Brooder. And kindly send us the name of your dealer.

MACKAY COLONY BROODER CO.

Lock Box 182, Dept. 2

Syracuse, New York





Shoemaker Poultry Farm

Freeport Illinois

Established
over
26 Years

Quality Will Tell

At the big Chicago Coliseum show, in classes that held the best birds ever shown there, our birds made the remarkable win of

23 FIRSTS

9 SECONDS 7 THIRDS 3 FOURTHS 2 FIFTHS

A total of 44 prizes out of 55 entries, the largest win of the show.

This wonderful winning proves that "Shoemaker Birds" are the birds for you to buy. It tells the story of why our business has increased year after year ever since 1889. Our motto is "a dollar's worth of value" for every dollar received, that is why we retain our old customers. We want you to know all about our big factory where we manufacture our own incubators and brooders, our mammoth poultry plant where these prize winners are bred and raised, our method of square dealing, so

Send for Our 1916 Book of Poultry

It is not like an ordinary catalog, but a big 200-page text book on poultry breeding in all its branches; no other breeder in the country issues one like it. It tells you all about our wonderful birds, giving you prices on them; all about our Globe incubators, brooders and other appliances, giving the prices on same. It contains a number of color plates of leading varieties of fowls, showing the birds in their natural plumage. It tells you all about poultry ills, how to prevent and cure them, tells you what and how to feed. In fact, it is a book that if interested in poultry you cannot afford to be without. Write for it today, enclosing 15 cents. If you think the information on poultry contained therein is not worth the money, we will cheerfully refund same.



Globe Incubators and Brooders

are the best machines on the market today and we are willing to prove it. We use the most modern of machinery, our workmen are the best that money can employ and no machine leaves the factory until it passes the most rigid of examinations, for our good name is back of every one of them. Our motto is "how good we can build them," not how cheap. The remarkable hatches which our customers obtain is proof positive that you can afford to buy but one incubator and that is the GLOBE.

WRITE ME TODAY.

C. C. SHOEMAKER

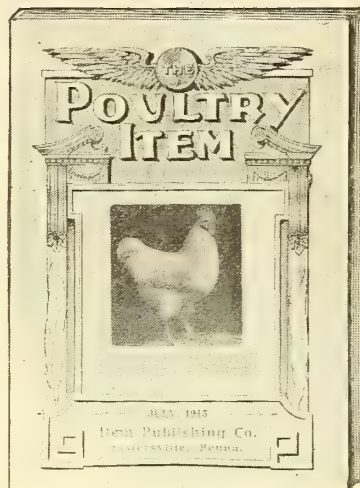
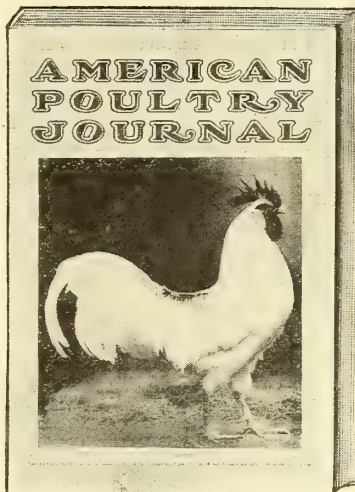
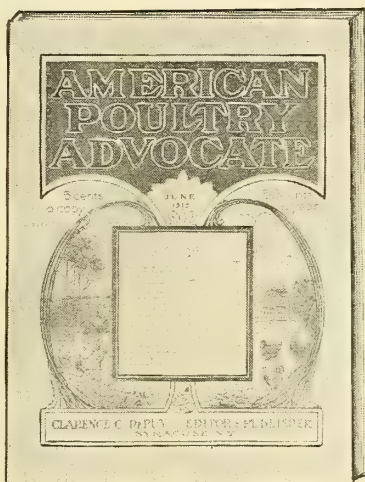
Breeder of Birds of Better Quality

Box 605

Freeport, Illinois

1889

1916



A WEALTH OF POULTRY KNOWLEDGE

\$1

**All Three for the
Regular Price of One**

\$1

This offer will appeal to every red blooded poultryman. The monthly publications embraced in this offer are leaders in their chosen field and well known throughout the country. All three are pioneers—they have been tested and have passed the final examination—the “survival of the fittest.”



American Poultry Journal, Chicago, Ill.

Established 1874

Has the envious reputation of being “The One Great Poultry Paper of America.” It's the oldest poultry paper in America and the largest and best poultry paper in the world. Its circulation covers the entire United States, Canada, Mexico, and several hundred copies are sent to foreign countries where the best is considered just good enough. It contains from 68 to 252 pages each issue, and is mailed to subscribers promptly on the first of each month.

American Poultry Advocate, Syracuse, N. Y.

Established 1892

Is one of the most widely known and consistently advertised publications in the field. It is composed of interesting and instructive reading and is conceded to be one of the best, clean-cut poultry papers in the east. Published monthly.

Poultry Item, Sellersville, Pa.

Another “breeder's choice,” is well edited, progressive, and instructive, finding popular favor among those poultrymen who enjoy good editorials, not “muckraking.” The helpful hints given in the many articles are advantageous to both amateur and professional. Published monthly.

These three papers, the choice of breeders, will be sent to you postpaid every month for one year, at half price.

American Poultry Journal, 1 yr., \$1.00	} All 3 for \$1.00
American Poultry Advocate, 1 yr., .50	
Poultry Item, 1 yr., .50	

The three papers being sold together for the price of American Poultry Journal alone makes this one of the best offers which can possibly be made.

Both new and renewal subscribers may take advantage of this offer. New subscriptions will commence with current issue. Renewal subscriptions will be extended one year from expiration of present subscription. This offer void after May 31st, 1916.

SEND FOR SPECIAL CLUB RATES ON 2 OR MORE ORDERS

AMERICAN POULTRY JOURNAL PUBLISHING CO.
542 S. Dearborn St., Chicago, Ill.

**American Poultry Journal Publishing Co.,
542 So. Dearborn Street, Chicago, Illinois.**

Gentlemen:—Enclosed find \$1.00 for which send me one year's subscription to American Poultry Journal, American Poultry Advocate, and Poultry Item.

Name

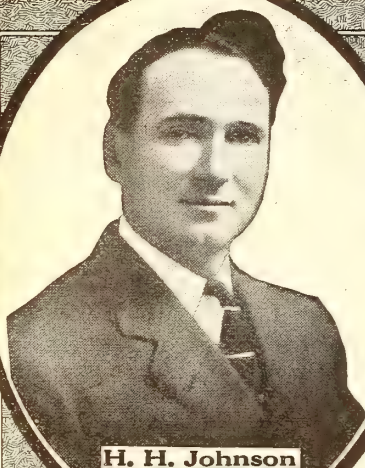
Town

Route or Street No.

Renewal State

Canadian subscribers add 75 cents and foreign subscribers \$1.50 extra for postage.
Void after May 31, 1916

2



H. H. Johnson

Why Has OLD TRUSTY Got Hundreds of Thousands More Owners Than Any Other Incubator?

WHY is it that Old Trusty outsells all other incubators three or four times over? Why have his sales built up the largest incubator business in the world? And why is it that from Maine to California experienced poultry raisers depend upon Old Trusty to the limit for making big average hatches in cold weather or any time of the year?

Reader, there can be but one answer. It must be the way Old Trusty is built and the experience that's back of him. You see there's a lot we don't forget in building Old Trusty. We don't forget, for instance, that an incubator has a top and bottom when putting on the asbestos.

We don't forget that it *must* make big hatches in *cold weather*. We don't forget that redwood *must* be *clear* and *flawless* if it's to keep the heat in and cold out. In short, we don't forget that it *must* hatch the *biggest average*, not once, but *every* time, and not for one year but for *many years*. We guarantee Old Trusty for ten years.

Another thing, *we* do the building complete. Old Trusty comes ready for business the minute you take off the crating and screw the legs on.

New Steel Legs

I was showing a customer through our factory the other day and he picked up one of the new steel legs we are putting on Old Trusty this year. "What's this?" he asked. I told him. "Why," he said, "I thought it was a mould or a pattern. You don't mean to tell me that Old Trusty gets four heavy steel legs like this. They would support a ton."

Maybe they would but that is not the idea. We simply saw a chance to make Old Trusty better and are doing it. Did you ever notice the long blade on a carpenter's square? Old Trusty's legs are made of the same kind of material, only a little thicker and turned on one side to an angle. Made out of cold drawn steel.

At another place he noticed a barrel of copper scraps left from making the hot water heating plant. "What do you do with these small pieces?" he asked. It brought up a point. We sell our copper scraps for the highest price paid to any incubator company for like material. That's because the copper men know that nothing but the pure quill is used in making Old Trusty's copper tank.

The Trays Are Made to Last Too

Farther on he picked up an egg tray. "Why," he said, "that's strong enough to carry rocks in." Maybe his statement is overdrawn, but we do go the limit in making Old Trusty's egg trays strong and substantial. I don't know of anything as worrying as handling eggs on a rickety tray. We finish the job right by sandpapering the edges of the trays so they slide in and out of the machine easy.

The point is, Old Trusty is, built as good as we can make it after 20 years' experience. And with all this quality Old Trusty is not high priced. He would be if built by the ordinary organization or in the ordinary output where big production could not make a low price per machine.

Our organization is home grown and home trained. We have no book-read "experts" drawing high salaries; no watered stock to pay dividends on. We built from the ground up, and the fact that we now operate the largest exclusive incubator and brooder factory in the world doesn't affect us any.

Reader, Why Not Get in Touch With Us?

Let's send you our 136-page book. The same reasons that make Old Trusty the big leader of them all are the same reasons why you should have Old Trusty working for you. Now is the time to start hatches—and it's the time when you need an incubator built like Old Trusty.

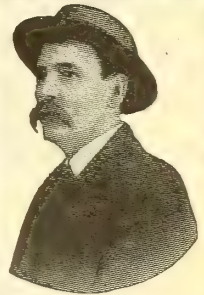
Remember, we make quick shipment from factory at Clay Center, or warehouses at St. Joseph, Mo., or Seattle, Wash., and that Old Trusty is

Still Less Than \$10

if you live east of the Rockies—a little more if you live farther west.

Now Is the Time

Send in Your Name Today So We Can Send You **Free** 136-Page Johnson Book



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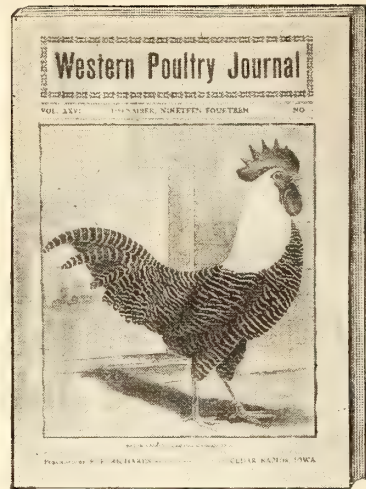
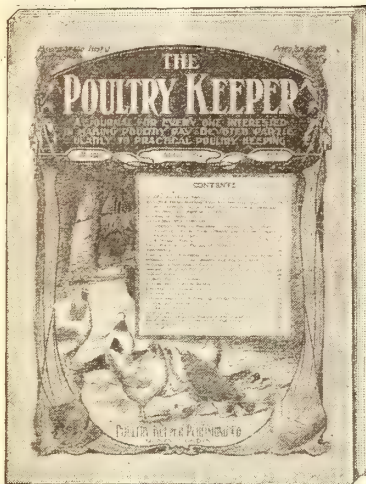
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J. S. GILCREST
President
Life Member American
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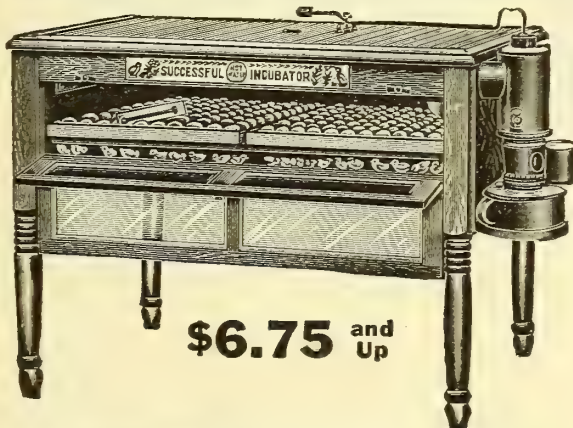
Send Me Your Name at Once for Full Details

IN all my experience I have never been able to equal the offer I am making this season on "Successful" Incubators and Brooders. This year, when prices in materials everywhere have advanced, I am not asking an extra nickel over the former price for the "Successful"—the big king of them all in quality—yet I am giving you the same heavy copper tank, the heaviest on any incubator made; the same leak-proof and wear-proof tank construction and unbeatable case. In short, every one of the big quality features that have made "Successful" Incubators the pride of successful poultry raisers in all parts of the country. Read the 20 Big Points for success in panel to the right and write me for this remarkable quality and price offer. Go in for big profits and succeed with

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Remember that back of these machines there are 21 years of success. They have stood the test for more than a generation. The principle of construction has never called for change. It has made good and more. Was built correct in the first place—has proved economical, dependable and productive of big hatches of sturdy, healthy chicks.

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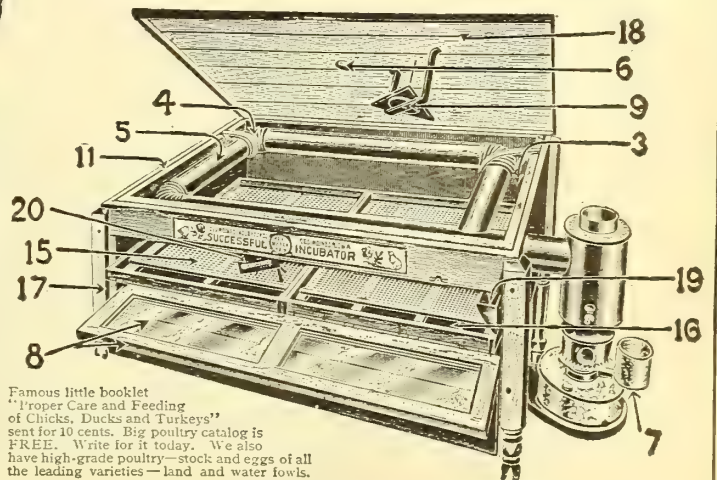
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The 20 Big Strong Points for Success

- 1—I personally guarantee that the "Successful" Incubators will hatch larger and stronger chicks and a larger percentage than any other incubator when operated under the same conditions.
- 2—My remarkably low price offers with high quality.
- 3—The only hatcher that heats the colder edges of the body first.
- 4—Round corners on tank, giving faster current, more heat, even regulation.
- 5—Heaviest copper tank used on any incubator.
- 6—Only one scientifically ventilated. Admits cold air at center of top. Does not create draft which dries out eggs.
- 7—Safety attachment on lamp burner—provides absolute protection from fire.
- 8—Only incubator with two glass doors—through which thermometer may be seen.
- 9—Combination wafer thermostat regulator.
- 10—The only machine guaranteed with a guaranty that guarantees and evades no issue.
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- 13—Weights more.
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Fresh Green Feed 15¢ Make Hens Lay Per Bu.

Turn loafing hens into industrious layers—have eggs to sell at top-notch prices by feeding sprouted grain. One bushel oats, wheat or rye makes three bushels of tempting, crisp green feed in the

"SUCCESSFUL" ALL-STEEL SECTIONAL GRAIN SPROUTER

Answers the feed problem—takes care of young chicks too—makes them grow. Made entirely of steel—double walls—fireproof—cannot warp, shrink or swell. Lasts a lifetime. Write today for booklet and 1916 offer.

Famous little booklet "Proper Care and Feeding of Chicks, Ducks and Turkeys" sent for 10 cents. Big poultry catalog is FREE. Write for it today. We also have high-grade poultry—stock and eggs of all the leading varieties—land and water fowls.

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200 EGG

STRAINS

Stock, Eggs and Baby Chicks

from profitable layers is your only guarantee for success in the poultry business.

ISN'T it a serious matter when eggs are selling at 40c to 60c a dozen and your hens are not laying? Ask the man who has failed. Also ask him if he would recommend the breeder he bought his stock from.

You cannot be too careful in the selection of your foundation stock; the stock from which you will produce your future layers. **I breed for eggs** and can supply you with stock that will lay when the egg prices are high.

THAT MEANS YOUR SUCCESS

Eggs

My breeding pens are now mated, and I can usually make shipment of eggs promptly upon receipt of your order. I would, however, advise that your order be booked in advance. This will assure delivery when you desire them. Prices, 10c, 20c and 30c each.



LADY ALFARATA, Record 301 eggs

BUSY BESS, Record 285 eggs

Baby Chicks

I will commence hatching operations January 1. I am now booking orders for baby chicks for delivery any time thereafter, weather conditions permitting. Early orders simplify matters and assure mutual satisfaction. Instruct me to book your order now. Prices, 20c, 35c and 50c each.

Buy Your Foundation Stock Now

In all of my eight varieties, namely, White and Buff Orpingtons, White and Barred Rocks, Rose and Single Comb Reds, White Wyandottes and Single Comb White Leghorns, I can supply Breeding Stock, young or old, that will produce a future flock of the kind that has in the past given entire satisfaction to over 3,000 customers. I herewith present your opportunity to start right. My free instructive catalog has helped others and will undoubtedly help you. Write for your copy today.

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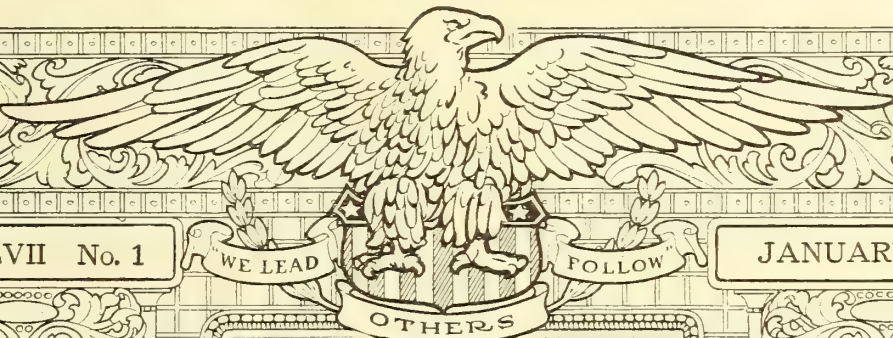
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AMERICAN POULTRY JOURNAL



Vol. XLVII No. 1

JANUARY, 1916



IRA C. KELLER—PIONEER POULTRYMAN

IRA C. KELLER, Prospect, Ohio, (one of the originators of Golden, Black, Violet and Buff Laced Wyandottes, the two last named varieties being discarded a few years ago), was born in 1863. He comes of a poultry family, his father before him being a fancier. At the age of 8 years, assisted by his brother of 18, who in the 70's, 80's and 90's was an artist breeder and judge, mated their first pen of American Dominiques.

Since then he has bred nearly all the older varieties, the Sebright Bantams practically all his life and Wyandottes for 33 years. He did his first judging when 20 years old and since then has placed awards at the leading shows, including Madison Square Garden. A great admirer of lac-

ing and without doubt the leading authority on same. He is also a great believer in line breeding and can give you breeding on his birds for 25 and 30 years back.

He has exhibited more Wyandottes than possibly any other breeder in the country, and has shown at Madison Square Garden since 1891. In 1893 he was selected as one of the committee to revise the Standard of Wyandottes. Was President of his State Association, officer in White and Golden Wyandotte Club, and is an officer in Silver Wyandotte Club.

His first advertisement appeared in the American Poultry Journal 28 years ago and has appeared in every issue since then.

The Production Cost of a Dozen Eggs

Some Business Facts by An Expert in Cost Accounting Who Is Also
An Experienced Poultryman. *By J. F. Robinson, South Weymouth, Mass.*



WHAT IS THE NET COST of a dozen eggs to the poultry keeper? An Eastern paper puts it at 12 cents per dozen—where one has to buy all the food fed. Our estimate of the average cost of a dozen eggs in California is 10 cents.—Editor Harker of *Pacific Fancier's Monthly*.

"We do not believe that good eggs from well-fed hens can be produced at a cost of less than 24 cents per dozen, average for the year."—Editor Woods of the *AMERICAN POULTRY JOURNAL*.

I am wondering if our California editor is not like a friend of mine, about fifty years of age, who was raised on a farm, but at present hardly knows a pullet from a cockerel. In a little different form than I have stated it below, he was always telling of the great laying and small cost of the flock on his father's farm.

"Why, John," this friend was wont to say,
"Those mongrel hens laid nearly every day,
And as they cost us almost nothing for their feed,
They gave us all the money we did need
With which to buy our groceries."

When I put the question to him
"How he figured out the pay?"
"Why they made their home on a hickory limb
And scratched their feed from a stack of hay."
And thus was his statement proven.

Over and over again do we hear the statement made, "My eggs are nearly all profit," and "I have the best flock of layers in the neighborhood," when in fact the maker of these statements, because of a lack of records, generally knows

nothing whatever about either the number or the cost of eggs produced by his flock.

Let us take a business man's method of finding the cost of producing eggs and see which is the more correct, the editor of the *Pacific Fancier* or the editor of the *AMERICAN POULTRY JOURNAL*.

The real cost of an egg can be found only by taking into account all of the several items of expense as follows:

First.—Investment Cost. I am going to figure on the basis of a flock of 100 layers. The investment for such a flock would be about as follows: (a) House, \$100. This item might be made a little less but would probably be more with the present cost of materials and labor. (b) One hundred hens and pullets nearly ready to lay in this section are worth about \$1.50 each, and the buyer of these layers would thus have an investment of \$150. However, most people raise their own pullets, probably at a cost of 75 cents up, so we will say an average of \$1 each, or \$100 for the 100 layers. (c) Equipment, fences, ground, etc., at a very conservative valuation, another \$100. Total investment, \$300.

If this money had to be borrowed the rate of interest would be 6% or over. If one was withdrawing it from the savings bank, they would allow the 4% that the bank pays. For an average, suppose we put it at 5%, which on \$300 would be \$15 annually. To this amount must be added taxes, insurance, repairs and depreciation expenses.

Ten per cent depreciation is a reasonable allowance on buildings, fences and equipment, with an allowance for land and water taxes or \$20 on the \$200 property investment. On stock, the depreciation will depend on the care, but I have found that with the best of care, I lose yearly from two to four hens out of each 100. Let us put the average at three hens or \$3 and we find our total investment cost to be: Interest, \$15; property depreciation, \$20; stock depreciation, \$3. Total, \$38.

Second.—Food Expense. I feed substantially as follows:

To each 100 hens—morning, 5 quarts (liquid measure) scratch grain; noon, 3 to 4 quarts (dry) sprouted oats; evening, 10 to 12 quarts grain. Dry mash in hoppers all the time. Of mash they eat from 5 pounds to 8 pounds daily. This makes an average of about 30 pounds of feed not counting grit, oyster shell, etc. I buy my grains and the ingredients for the mash in 100-lb. lots and do my own mixing. In this way I find that year in and year out, the cost is approximately \$1.90 to \$2 per 100 pounds.

At above rate of feeding, the cost would be then, 30 pounds daily at an average of \$1.95 per 100, or \$214 for the year. I believe this is about the average amount of food given by the average poultryman, and the price about the average price thruout the country. The man who raises this food would, of course, figure selling price, which in the case of the grains would be some less; on the other hand, a great many buy ready mixed foodstuffs and they, of course, pay considerably more. The Mediterranean varieties would perhaps eat a little less, but the average will be about as shown. I believe, if anything, more rather than less.

Third.—Labor Expense. Before writing this I wrote to the proprietor of one of the most successful poultry farms in the United States, asking him two questions: (a) How many layers would one man be expected to care for. (b) At what price could competent working poultrymen be obtained. His answer, and it appears very reasonable to me, was as follows: (a) "One thousand laying hens and raise his own pullets." (b) "From \$30 to \$75 per month."

I am figuring on a man caring only for his layers and not giving his time to raising pullets, so I have doubled the number of hens and put the labor at \$40 per month, which makes it (a) 2,000 laying hens; (b) \$40 per month. Now let us reduce the 2,000-hen flock to our 100 flock and we find we have a labor expense of \$2 per month, or \$24 per year. "Oh, but I do my own work," says someone.



Well, suppose you do; is not your time worth as much as the time of the hired man? And if so, is it not right and proper that it be figured in as an expense? Does the business man figure in his salary as a part of the expense of conducting his business? He certainly does and not at the hired man price, either. Poultrymen, if they wish to succeed, must use business methods, not only in their work, but also in their accounting system.

We find then, that the cost of keeping 100 hens for a year is about as follows:

Investment expense.....	\$ 38
Food	214
Labor	24
Total	\$276

If I have estimated correctly, what, then, is the cost of one dozen eggs?

Let us see. In order to keep the price at 10 cents per dozen, our California hen, unless the California air has the same downward influence on egg cost that it has upward influence on land cost, would find herself under the necessity of laying 27.6, dozen or 331, eggs per year.

There are very few 300 egg hens. There are a few 200 egg hens. There are quite a few 150 egg hens but the average is nearer the 100 egg hen.

Figuring on the above basis, the production cost of a dozen egg hens. There are quite a few 150 egg hens, but the average would be 16½ cents; with a 150-egg flock, 21½ cents; and with the 100-egg flock, the cost amounts up to 33 cents per dozen.

During the years 1910-1911, I had a flock of fifty Black Langshan hens, all of them first and second year descendants of two hens; one with a laying record of 203 eggs and the other a record of 162 eggs in ten months, being with chicks the other two months. These fifty hens' and pullets' average for 1910 was 149 eggs. On account of their being more old hens, there were about one-half dozen less for 1911.

Taking into consideration the above items of expense, with the exception of labor, I found the average cost of eggs by months, for these two years to be: January, 42 cents; February, 37½ cents; March, 15 cents; April, 11 cents; May, 12 cents; June, 9½ cents; July, 9 cents; August, 9½ cents; September, 13 cents; October, 35 cents; November, 34 cents; December, 27 cents, or an average for the year of 21.2 cents per dozen. Adding the labor cost of 24 cents per hen or about 2 cents per dozen, we have about 23 cents, the actual cost of a dozen eggs from a 150 egg flock.

So much for the production cost. Every successful business man after finding the cost of putting his stock in the store, estimates the cost of disposing of the stock, and together with his desired profit, adds this to the production cost in order to arrive at the price he expects his customers to pay him.

Unfortunately poultrymen have not arrived at the time when they can set their own price, but in getting at the real cost of an egg or in estimating capital needed to engage in the business and income to be derived from the business, this selling expense becomes a legitimate and necessary thing to be taken into consideration.

If all eggs are sold "at the door," and the customer brings his own carriers, the selling expense will be almost nothing. If eggs are sold for setting, the expense will be heavy. If shipping to the market the expense will be made up of crates, express and broken eggs. I should say that a reasonable estimate would be two or three cents per dozen. This added to the production cost would make it necessary to receive an average of 25 cents to 26 cents per dozen THE YEAR AROUND BEFORE PROFITS BEGIN.

Have I set it too high? Possibly, but unless my reasoning is faulty and my figures liars, I would say no.

There would be fewer failures in the poultry business if before investing his money, the prospective poultryman would figure his "outgo" and "income" on the above basis instead of on the strength of advertisements, reading "So many thousand dollars on a city lot" by "purchasing your stock direct from our 200 or 300-egg strain" and "Kept in Mr. So and So's small coops," "Tested out with Mr. Infallible's infalli-

ble method," and "Fed on food at 10 cents per bushel as per Mr. One Dollar A Tell's secret," or even accepting such statements as the one appearing in the *Pacific Poultry Monthly* and numerous other poultry journals, published thruout the country.

Yes, even with this "high cost of eggs," there is probably as large a per cent of profit in poultry as in most other lines of business. The profit, however, comes, only as the result of a *reasonable investment of money and a large investment of hard, intelligent effort.*

Just as I finished the above article, there came to my desk a copy of *Poultry Post*, and on Page 22, in answer to a beginner's question, the editor says, I always figure that it (food) costs at least \$1 per year per bird, which includes the cost of *all green food, beef scraps, charcoal and grit.*"

Grains at present cost in 100-pound lots as follows:

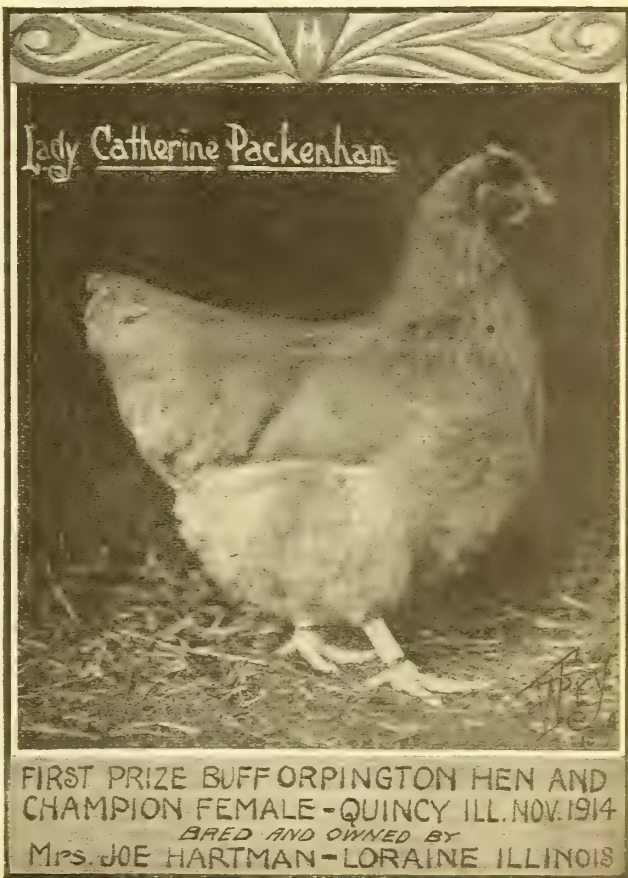
Cracked corn, \$1.68; wheat, \$2.10; oats, \$1.80; beef scrap, the cheap grades, \$2.50. Making a mixture of 100 pounds cracked corn, 60 pounds wheat, 40 pounds oats and 20 pounds of scrap, we have a fairly good egg mixture at a cost of \$1.89 per hundred weight.

The *Post's* \$1 then would buy Mr. Beginner almost 53 pounds or 35 quarts of poultry food. Allowing nothing for morning, mash food, green food, grits, etc., we could give one quart of food once each day to each ten to eleven hens.

Yes, Mr. Beginner, you might *keep* a hen with one dollar's worth of food per year, but if your wish is to have "Mrs. Biddy" *keep you*, it will be necessary to at least *double* this amount.

Quarantine New Comers.

Never bring a fowl from another yard and place it in your flock until you have kept it in quarantine. Provide a coop for that purpose, and place it at some distance from the yards, keeping the new birds confined long enough to know if they are healthy. The strictest precautions are necessary, or you will bring roup or cholera into your yards before you are aware of it. And, what is more, even if there is no disease, quarantine for fear of *lice*. Always be on the watch against lice, for should a lousy bird get into the yard it will soon stock the whole.—*Farm and Garden*, 1887.



An Island, Standardbred Poultry Plant

Report of a Visit to Owen Farms on Marthas Vineyard and
Observations by the Editor.

By Prince T. Woods, M. D.



THE NOVEMBER DAY selected for our visit to Owen Farms was not a particularly promising one. When we reached Woods Hole, Mass. just before noon, the wind was blowing a gale and every few minutes there was a flurry of snow. However, having started, we decided to see it through and boarded the Steamer "Uncatina" for the seven mile sail to Oak Bluffs on the Island of Marthas Vineyard. It was too cold and raw to stay out on the windy deck and in the

cabin some of the passengers were making pretty bad weather of it while the little steamer pitched and rolled. We enjoyed the trip immensely for we like a salt water journey, no matter what the weather may be.

Mr. Delano met us with an auto and we breezed merrily over the tar road to the farms and then, with true New England weather perversity, the sun came out bright and clear though the wind still blew in raw and cold from the open sea. It most decidedly was not a day to see poultry at its best. Yet we did see rather more than 5,000 good Standardbred specimens in fine fettle, with abundant health and vigor. In spite of the unfavorable weather conditions the Owen Farms' flocks made a fine showing and a good impression.

Maurice F. Delano became the proprietor of Owen Farms in 1913, by purchase of the flocks and good will of the business from the founder William Barry Owen, for whom he was manager since 1905. Mr. Delano is about 40 years old and has been breeding Standardbred poultry since 1889. He has been prominently identified with specialty club and poultry association work since 1900 and is an American Poultry Association general poultry judge. While personally managing the work of Owen Farms, Mr. Delano has a leaning toward specialty breeding of Orpingtons and of S. C. Rhode Island Reds. He is ably assisted by his farm superintendent Frank H. Davey, a poultryman with thirty years experience in breeding Standardbreds, who gives special attention to the mating and breeding of the farms' White Wyandottes and White Plymouth Rocks. Besides Mr. Davey, Mr. Delano employs six men to care for the Owen Farms flocks. The office management of the farm business is personally conducted by Mr. Delano, who appears to have no difficulty in keeping two stenographers exceedingly busy. We noted that this plant has its sales department particularly well systematized and keeps careful record, with history and description, of each specimen sold and a remarkably complete record of all sales of hatching eggs, with reported results.

Such data must be of considerable value in handling a Standardbred poultry business and in continued dealings with old customers.

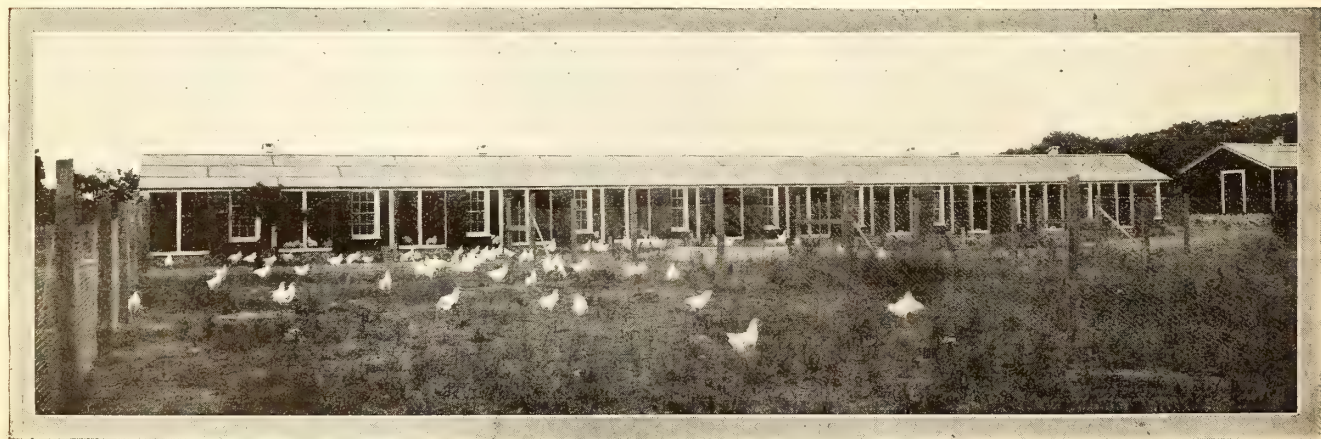
We found Mr. Delano decidedly optimistic concerning the outlook for the Standardbred poultry business in 1916. He said that business the past season had been satisfactory and he believed much better than the general run of business since the beginning of the war. He was particularly pleased with the way orders were coming in for the month of November and told us that Owen Farms' sales from November 1 to 17, 1915, had been exactly \$5,394.11 and he was confident that the demand will increase as the season advances. He showed us one nice order, just received from South Africa, for White Wyandottes and Rhode Island Reds, and the accompanying draft for £71-2-6. Foreign business with South America, Australia, New Zealand and South Africa, he considered to be improving and decidedly promising. One can judge as to the accuracy of our estimate of the number of fowls car-



View of part of the long breeding houses on Tashmoo farm, Owen Farms, Vineyard Haven, Mass.

ried on Owen Farms at the time of our visit, when it is stated that the feed bill for the month of October alone amounted to something over \$881.00.

While the breeding yards were not mated up in early November, we were told that the farm would carry this coming season: Rhode Island Reds, 20 breeding yards of first quality and from 10 to 20 yards of second quality stock; in White Plymouth Rocks, 20 yards of first quality and 10 of second; in White Wyandottes, 20 yards of first quality and 10 of second;



Front view of one of Owen Farms long breeding houses. This house is 117 feet long by 16 feet wide and is about 7 ft. high at eaves. The photographic view shows this house as originally built. The double doors in front of each pen have been boarded up 3 ft. from the bottom and the top is closed by a cloth curtain on a wooden frame hinged at top to swing in and up. When the curtains are closed the glass windows are opened part way at top. The houses are plastered inside and kept well whitewashed.

in White Orpingtons, 20 yards of first quality and 20 of second; in Buff Orpingtons, 20 yards of first quality and 10 to 20 yards of second; in S. C. White Leghorns, 15 yards of first quality



North row of 25 open-front "A" breeding houses (each 8x8 ft. on floor; 2 ft. high at eaves, and about 7 ft. high at peak) on Tashmoo farm, Owen Farms, Vineyard Haven, Mass.

and 10 of second, with about 100 head of utility stock in this variety.

This farm does not approve of marketing "fancier's culls" as "utility" stock; all culls are disposed of as market poultry, for which there is an unusually fine demand in summer, the summer residents on the Island regularly paying from 35c to 40c per pound for fowls and chickens. Very little business is done in market eggs, except to dispose locally of eggs not suitable for hatching purposes, all eggs produced from special matings are either sold for hatching purposes or hatched on the farm. While a considerable number of day-old chicks are sold, Mr. Delano does not favor this branch of the business and much prefers to sell breeding stock and hatching eggs.

Owen Farms has incubator capacity for 3,000 eggs at one setting. The brooder houses are equipped with International hovers and have an auxiliary heating system by a bank of hot water pipes on rear wall. Preference is given to hen hatching and hen brooding, and long houses are equipped with conveniences for natural brooding of large numbers of chicks with hens, during the winter and early spring season. Several hundred out-door brood coops for hen and chicks (mostly Hodgson type) are also used. About 8,000 chicks are raised each year and at least half, or more than half, of them are hen hatched and hen reared. Approximately 3,000 breeding birds are carried through the season. Our attention was attracted to the unusual number of good yearling and two-



South row of fifty 8x8 ft. open-front breeding houses at Owen Farms, Vineyard Haven, Mass.

year-old cock birds carried by this farm for breeding and sales purposes, the proportion was uncommonly large and we were told that, even with so large a supply to draw on, it is

often difficult to keep pace with the demand for exhibition and breeding cocks. Each season some flocks of chickens are "farmed out" on the mainland and the pick of these flocks are taken to the island in October and November.

There are about 250 acres in the Owen Farms known as Tashmoo Farm and Tashmoo Annex and here the main breeding flocks and the incubating, brooding and show fitting plants are located. The White Leghorns are kept on the Red Farm, about five miles distant from the main plant. On Tashmoo Farm there are eight long curtain-front houses for breeders, each 117 ft. long by 16 ft. wide. There are also 75 8x8 ft. open-front colony houses of the South Shore "A" type, a large cockerel house and two buildings for grain. On the Annex are eight brooder houses 90 ft. long, originally designed for use as a market capon plant. Two of these buildings are used as show fitting rooms and are equipped with a wash-room and Empire coops for cooping 400 birds. One house is used for sitting hens, another as an oat sprouting house and the other four are used for growing early chicks. The incubator cellar is on this farm and it contains room for keeping eggs intended for hatching. There is also a new 20x16 ft. Woods' open-front house on this farm, housing some 90 or more fine 1915 Rhode Island Reds. Range for growing chicks is provided by a combination of well grassed fields and woodland. The adult stock is mostly moulted in pine and oak wooded yards, where they get just



A near and detail view of Owen Farms' open-front "A" type poultry house. Dimensions, 8x8 ft. on floor; 2 ft. high at eaves, and about 7 ft. high at peak. Capacity, 10 or 12 females and a male for special breeding pen. Excellent open-air quarters that insure good health, a fine yield and fertile hatchable eggs.

the right combination of sunlight, shade, and fresh air to complete their change of plumage in the best possible fashion.

The soil of the farms is sandy, but sufficiently substantial to carry a good growth of grass. There is sufficient woodland to afford ample shelter and plenty of shade, with enough sunshine for good results. We were told that there are no varmints like skunks, weasles or foxes, and no hen thieves on the island, so that it is not necessary to shut up the flocks at night. The location is sheltered from the ocean breezes and altogether makes a very desirable place for growing Standardbred poultry. Personally, we would prefer a soil rather less sandy and a farm less in the valley, but with the attention paid to freshening yards by plowing and seeding and of cleansing houses by disinfection and free use of white-wash, Owen Farms has matters of health and sanitation in hand.

The open-front "A" houses were being put in condition for reception of winter breeding flocks and the process was an interesting one to watch, from the point of thoroughness and care,—first the houses were cleaned dry, removing all droppings and litter and accumulated dust; then followed flushing out of the house with a hose; after spraying with whitewash. These buildings have wood floors and these receive the same treatment as the walls. The result, after drying out, gives a clean, sweet house that will safely take in a valuable breeding yard of ten females and a male. The "A" houses are 8x8 ft. floor measure; 2 ft. high at eaves and 7 ft. at peak. The entire front is wire netting. A muslin curtain

on a wood frame is provided to partly close in the front in winter.

Owen Farms sells show birds on the "guaranteed to win" plan and find it a very satisfactory method. The price of the bird is fixed for actual value on the assumption that it will win



View of grass range and wooded shelter for growing chicks at Owen Farms, Vineyard Haven, Mass.

first; if the bird does not make the blue ribbon and wins second or third prize a substantial rebate is made in accord with the bird's actual winning. In other words the management of the farms backs its birds to win and gives the purchaser the benefit of Mr. Delano's knowledge of the birds and his experience with judges and judging.

While we were at the farm a large number of fine specimens were being washed, fitted and trained for the show room. Colored varieties are not washed, but are cooped, handled and posed for exhibition. White birds are given one thorough washing, being first put through a good cleaning with soap and warm water; then given two good rinse baths, and then a final dip in the blue water, which is only lightly colored. The washed birds are dried out in a warm room in exhibition coops lightly littered with planer shavings. No roosts are used in these coops. After the birds have been well drained they are removed to another coop, with dry litter of shavings, to dry out thoroughly. No straw is used in draining or in training coops on account of its tendency to stain the plumage.

Breeding birds at Owen Farms receive the following ration: Morning and night, a hand feeding of mixed corn, wheat and oats in the litter. At noon sprouted oats, all they will clean up quickly. Dry mash, in galvanized iron hoppers, before the birds all the time. In each pen a small galvanized iron cup is attached to the wall of pen just out of reach of the females; this is filled with hard grain for special use of the male bird. This plan helps to keep the males always in good condition. The dry mash formula is as follows: (parts by weight) Clover, alfalfa, gluten, each 2 parts; bran, ground oats, beef scrap, each 3 parts; corn meal, 4 parts; oil meal, 1 part.

Small chickens are fed as follows: Sweet stale bread soaked in good sweet milk and then squeezed dry, for first food. Johnnycake, well baked, is made of 2 parts bran, 2 parts corn meal and 1 part middlings; mixed with just enough sweet milk to make a crumbly mash. In this is mixed a little fine oyster shell and fine grit. The whole is put in a shallow pan and baked in a slow oven until thoroughly cooked. This is fed, crumbled up, as the main diet for first week. Give all they will clean up greedily and feed every two hours. After the second day a mixture of 2 parts bran and 1 part corn meal is kept before the chicks in hoppers. Charcoal, fine grit, and oyster shells are also kept before them.

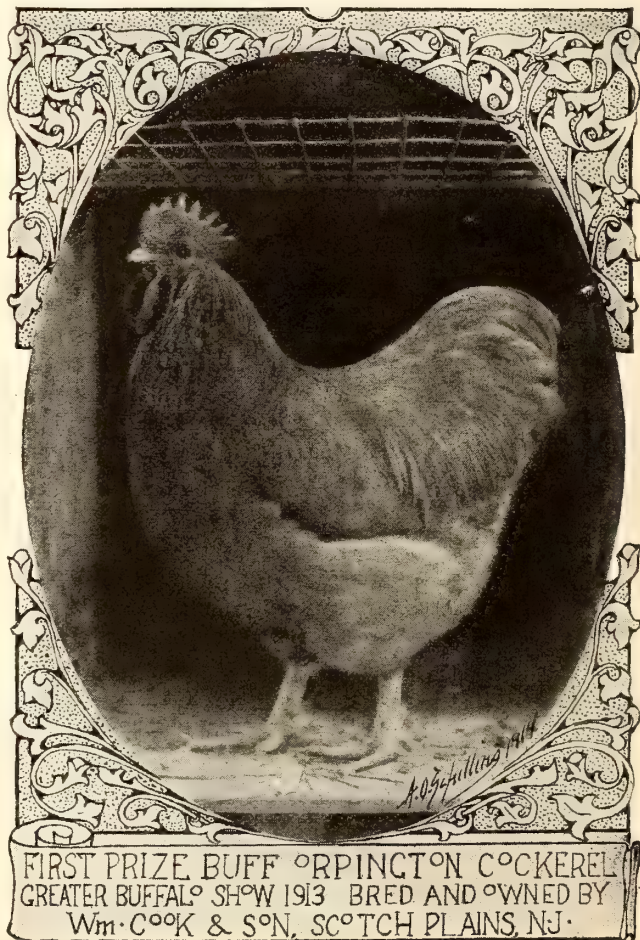
Commercial chick food is fed every other feeding beginning at end of first week. After second week the chicks get the baked cake but once a day. During the first two weeks hard boiled eggs, chopped up and mixed with the cake, are fed once a day. After the third week begin giving cracked corn, wheat and oats twice a day in place of part of chick food and baked cake which is gradually taken away from them. Dry

mash kept always before them from now on. Part of 1915 season, Pratts' baby chick food was substituted for the baked cake with excellent results. A box of sprouted oats is given to the chicks for them to scratch in and eat what they wish. All left over is thrown out the next morning and a fresh supply given the chicks. This succulent food is considered a very important part of the ration.

Mr. Delano sat up with us and talked poultry until after midnight, when we decided that we must go down to the hotel and get at least "forty winks" before the 5:30 a. m. call for a bite of breakfast before taking the morning boat at Vineyard Haven,—the morning boat in winter leaves at 6:40 a. m. and is generally on time. It was a beautiful calm, sunny November morning when we boarded the Vineyard Haven Steamer "Sankaty" bound for Woods Hole, to make the early train for Boston. Early as it was the Owen Farms birds were there ahead of us and a good sized shipment off for Buffalo and the West. An island poultry farm has its advantages and some disadvantages, but Marthas Vineyard is a mighty comfortable and attractive island home for Owen Farms and an interesting place to visit either winter or summer.

Poultry Manure.

W. Atlee Burpee credits the average hen with about one ounce of dry dung daily and says: "Fifty fowls will make, in their roosting house alone, about 10 cwt. per annum of the best manure in the world. Hence, in half a year this number of fowls, to say nothing of their offspring, will make more than enough manure for one acre of land;—1 cwt. of guano being the usual quantity applied per acre,—and poultry manure being even richer than guano in ammonia and fertilizing salts. These figures demand careful attention from the large farmer. The manure, before used, should be mixed with twice its bulk of earth, and then allowed to stand in a heap, covered with a few inches of earth, till decomposed thruout, when it makes the very best manure that can be had. The droppings must be kept dry, under cover."



QUALITY

SIZE

VIGOR

JOHN C POORMAN

POORMAN'S

200 EGG

STRAINS

CHICKS

STOCK

EGGS


WHITE ORPINGTONS R.C. RHODE ISLAND REDS

BARKED PLYM ROCKS WHITE WYANDOTTES

TRAP-NESTED
BRED-TO-LAY
POULTRY

BUFF ORPINGTONS S.C. RHODE ISLAND REDS

WHITE PLYM ROCKS S.C. WHITE LEGHORNS



The Barred Rock hens in this group have records of 227, 228, 230, 235 and 241 eggs.

Development of White Rock Pullets

Report of a Test with a 1915 Flock Made at Request of American Poultry Journal.

By James B. Morman, Kensington, Md.



THE INCREASING DEMAND for fresh eggs in late Fall and Winter makes the question of raising pullets for egg production an important subject for poultry keepers. Not only the best time to hatch chicks, but their care and management, figures in the problem of the normal development of pullets for egg laying. From the biological point of view, then, the normal development of pullets would mean their proper feeding, care and management until they began to lay.

The period when pullets begin to lay varies with different breeds. The Leghorn, of course, develops more rapidly than a heavier breed like the White Plymouth Rocks, so that the normal time of beginning to lay must be studied for different breeds of fowls and even for different strains of the same breed. Moreover, the normal development would require one to ascertain the weights of the growing chicks from time to time in order to establish a standard of growth measurement. These weights being known in the case of pullets carefully and thoroly managed as to feeding, cleanliness, comfort, and so on, would enable anyone who kept the same breed of fowls to check up his own data with those of some other poultry keeper interested in similar lines of breeding.

During the season of 1915 I undertook to study the question of the normal development of White Rock pullets. The facts as ascertained, together with the manner of feeding and managing the chickens, are presented in this article.

EGGS AND THEIR HATCHING.

It should be said at the outset that my strain of White Rocks has been bred for early and prolific laying for a number of years. The size of the flock is usually between fifty and sixty laying hens and pullets. Great care is exercised to maintain the vigor of the fowls in the flock by bringing in a new strain of males or females every two or three years. The importance of inherent vitality is accepted as a fundamental principle for the successful development of chickens.

For getting as strong chicks as possible, the natural method of hatching was chosen. No practical poultryman would be likely to argue that the results of artificial incubation are as good as the natural means of hatching, either in the percentage or vitality of the chicks hatched. The best breeders use hens for hatching chicks intended for future breeding stock, acting on the theory that chicks hatched by the natural method have more vitality. There is a great deal to be learned yet about artificial incubation before the old-fashioned method will be discarded altogether. Of course, a great many things have to be taken into consideration to get real strong chicks whether the eggs are naturally or artificially incubated. Under certain conditions which affect the vitality of the germ in the egg, it may not be at all unlikely that incubator chicks may even be stronger than those hatched under a hen. But

where care is exercised in selecting the breeding birds on both sides and they have good care, I prefer to hatch with hens rather than with an incubator.

This was the case with the chicks hatched for determining the normal development of White Rock pullets. Moreover, they were hatched early, because it is my conviction that early chicks are stronger than those hatched later. The hens were set on February 16th, 20th and 23d, and on March 1st. The earliest chicks, therefore, were hatched on March 9th and the latest on March 22d, a difference of practically two weeks between the ages of the earliest and the latest chicks.

The average weight of all the chicks on the day they were hatched was practically 1½ ounces. This corresponds with the weight of chicks hatched in 1914, so that there seems to be little or no variation in the weight of White Rock chicks hatched from healthy stock from season to season.

When a day or two old the chicks with their mothers were placed in the porch pens on the east side of the house. These pens have the ordinary lath lattice work in front, the inside of which is fitted with glass sash that can be moved back and forth. The pens have plenty of fresh air, but are free from draughts. According to the nature of the weather, the sash is closed or left partly open.

To let the chicks out on the lawn, all that it is necessary to do is to raise one of the sash by placing a brick under it. The chicks could then pass under the sash and go out on the grass lawn, while the mother hen was confined. From the day they were hatched the chicks received no heat except that furnished by the natural brooding of the hen. I have no record of any chick having died under this system of fresh-air handling during the season of 1915.

FEEDING OF EARLY CHICKS.

If chicks are carefully fed during the first few weeks of their life there is not much likelihood of losses, if they are the progeny of vigorous stock. The chicks in this case were given no food for the first thirty-six hours after being hatched, but they were allowed to run around in some dry clean sand. In accordance with my usual practice (I mixed my own chick feeds, consisting of equal parts of dried bread crumbs, rolled oats or oat meal, small-size cracked corn, bran and wheat. This was fed for the first two or three weeks. The smaller parts of this home-mixed feed were eaten by the chicks and the larger parts by the hens, so that nothing was wasted. At the end of three weeks the average weight of the chicks was 5¼ ounces. (See Photo No. 1.)

When the chicks were from four to six weeks old they were fed regularly four times a day, but they were not fed heavily at any time. The first thing in the morning they were given a little grain mixture in their pens, being kept confined that they should not run on the grass until it had become well dried off by the sun. On wet or stormy days the chicks were kept pretty well confined all the time, the aim being to keep them from getting damp and catching cold in their bowels. The fact that there were no losses I attribute to the care used in preventing the chicks from getting wet.

The grain mixture fed the chicks consisted of a first-class grade of commercial scratch feed. A good scratch feed contains a variety of grains, and chicks like a variety the same as human beings. To this scratch feed I added about one-third by measure of wheat, for the reason that I did not think the purchased feed contained a sufficient quantity of this valuable protein feed. For successful growth in young chicks it is important that they be supplied with mineral matter, carbohydrate, fat, and protein. A variety of feeds is an aid to the chicks in selecting for themselves what is needed for normal development.

About 9 o'clock in the morning the chicks were given a moderately wet mash, consisting of about equal parts of bread, bran, middlings, ground oats and corn, and a little



Photo No. 1, March 30, 1915, White Rock chicks three weeks old, average weight 5¼ ounces. See article "Development of White Rock Pullets."

meat meal, the whole being wet down with water or milk. This formed a nourishing mash feed which was eaten ravenously by the chicks. At noon they were given a small quantity of the grain mixture and at evening the same ration but



Photo No. 2, April 24, 1915, White Rock chicks six weeks old, average weight 14 ounces. See article "Development of White Rock Pullets."

in sufficient quantity to sustain them over night. In the early part of the season the nights are quite long, so that care was taken that the chicks did not go to roost without being well supplied with food for the last meal of the day. The result of this method of feeding was that the chicks weighed on an average of fourteen ounces when six weeks old. (See Photo No. 2.)

After the mother hens had begun to lay again and had left the chicks, they were placed all together to save time in care and feeding. They were fed regularly four times a day as previously described and were allowed a limited grass range. When three months old, the pullets were separated from the cockerels and a larger quantity of stale bread was used in their mash. In other respects the same proportions of ground feeding stuffs were used in the mash. At a little over four months of age the average weight of the pullets was 3½ pounds. (See Photo No. 3.)

Shortly after August 1st the pullets were placed in the pen they were to occupy for their Winter quarters. These had been previously thoroly cleaned and prepared for their accommodation. Each pen contains a yard space, roosting place, scratching pen, dust bath, and nesting places. The yards open into a field where the pullets were allowed to run an hour or two after their evening meal. On wet or stormy days, however, they were not allowed to run on the grass, but were kept confined to their quarters. Every precaution was taken to prevent the pullets from getting bowel trouble by getting wet and chilled. While ailments of this nature are not necessarily fatal, they have a tendency to set back the growth of the pullets and prevent their normal development for Fall and Winter egg production. And it must not be forgotten that one of the objects of determining the normal development of White Rock pullets was to find out the normal period when they begin to lay under good care and management. On September 6th the pullets were photographed again, the average weight at this time being 4¾ pounds. (See Photo No. 4.)

FALL CARE OF THE PULLETS.

I have always felt that pullets intended for Fall and Winter egg production should be well fed and have comfortable quarters. My aim was to provide for their proper nourishment, physical comfort, and cleanliness. With the pullets raised in 1915 special attention was given to these matters. As will be seen, the results were fairly early and large size eggs for pullets.

When the weather began to get cold the pullets were kept as active as possible. This was accomplished by throwing a little grain in the litter of their scratching pen two or three times a day. A good combination of grains I had found for Fall and Winter use was two parts wheat and one part each of corn, barley, oats and buckwheat. The corn may be fed cracked or whole. At first I used cracked corn which was changed to whole corn about the first of October. This was given morning and night in their litter, the pullets thus being made to scratch for the grain.

In addition to the grain the pullets were fed a substantial wet mash. I used a mixture of two parts of bran and one part each of high-grade middlings, ground corn and oats, and cut clover or alfalfa meal. To this mash mixture I added a substantial quantity of stale bread soaked in water or sour milk. Small boiled potatoes were also frequently added to the mixture. The whole was wet down to a light crumbly mass. The stale bread costs me 2½ cents a loaf at the bakery. At this price it is not an expensive feed for finishing pullets for a few weeks, if fed in judicious proportion. To the mash for the pullets there were frequently added the wastes from the table.

But feeding is by no means the whole story in the proper development of pullets. As previously stated, this was supplemented with dry and substantial quarters. It is not necessary to have expensive buildings to properly house pullets for Fall and Winter egg laying. A good poultry house is one which is free from draughts, gives plenty of light, is thoroly dry, and is well ventilated. A dark or a damp house is bad for fowls, especially for growing pullets. They are apt to catch cold, which in the Fall of the year may develop into roup. As an extra sanitary precaution, the roosting quarters were regularly cleaned. Under no circumstances at night or day were the pullets exposed to draughts. From the beginning to the end of their development there was no sign of physical ailment in any of the pullets.

I regard a well-lighted scratching pen as an important adjunct for the proper handling of growing pullets. If they have no means of exercising their scratching habits they soon lose their vigor and will not develop normally. To keep the pullets busy, especially as the colder days of Fall approach, I provided the scratching pen with two or three inches of clean litter, into which their grain was thrown from time to time. For litter I used a combination of leaves, hay and straw in about equal proportions. Any coarse material, however, will serve equally well as litter. The scratching pen was cleaned at least once a week. The fine material was used under the perches as an absorbant for the manure.

A good-sized dust-bath was also provided for the pullets. The object was to enable them to keep themselves free from lice as possible. If this pest harbors abundantly on growing pullets, it not only prevents growing pullets from developing as they ought, but it is apt to set back their laying in Fall and early Winter.

The pullets were also provided with oyster shell, grit and meat meal or scraps in simple self-feeding hoppers. These materials are especially desirable when the pullets are more or less confined as was the case with these pullets.

THE FEEDING OF GREEN STUFF.

In my judgment pullets will not develop normally unless they have a certain amount of green feed. In late Summer and early Fall these pullets were fed plenty of lawn cuttings and succulent weeds from the garden every day. Green food helps to keep growing stock in good health and, in the case of pullets nearing maturity, stimulates egg production.

As weeds and lawn cuttings began to grow scarce, the pullets were fed a small quantity of alfalfa or clover in their mash, supplemented with a small quantity of cabbage. During the late Fall they were fed some sprouted grain or some



Photo No. 3, June 24, 1915, White Rock pullets ready for penning, a little over 4 months old. Average weight 3½ pounds. See article "Development of White Rock Pullets."

other kind of green feed. For pullets beginning to lay, nothing is much better in the line of green stuff than sprouted grain. This forms a valuable and not expensive feed for pullets. Either wheat, barley, oats or rye may be used for



Photo No. 4, September 6, 1915, White Rock pullets, average weight 4¾ pounds. See article "Development of White Rock Pullets."

this purpose. Under proper conditions of temperature and moisture, the sprouting of any of these grains will soon take place. For this reason no poultryman need be without a constant supply of succulent feed for his pullets during the late Fall and Winter seasons. In view of the importance of green food for growing and laying stock, it may not be out of place to briefly describe my method of preparing sprouted grains for poultry purposes.

About half a gallon of wheat or oats is put to soak in a pail. The grain in the pail should be stirred occasionally with a stick. In two or three days the grain will be found to have germinated. The water is then poured off and the grain spread out evenly in trays not more than an inch in depth. Regular sprouting trays may be procured of dealers in poultry appliances, but anyone who is handy with tools can easily make trays for sprouting grain. For easy handling they should not be made too large. The advantage of small sprouting trays is to save space. They may be placed one above another where room is limited.

After the grain has been a day or two in the trays, a little water is applied once a day. As the shoots grow the grain will stand watering two or three times a day. Light is important for developing the chlorophyll or green coloring matter of the plants. For this reason grain should be sprouted in light rather than in darkness.

The temperature should range from 60 to 75 degrees Fahrenheit to get the best results. A cellar, if it is well lighted and has furnace heat, is an ideal place for sprouting grain for the use of developing pullets. Within a very few days the grain in the trays will be found to have sent up succulent green shoots. When these have grown to be an inch or two in height, the roots have become an intertwined mass of whitish threads which bind the grain together into a matted turf-like mass.

This sprouted grain may be fed to pullets with good results. Since the green part is mostly desired for feeding purposes, the sprouts are allowed to grow until they are three or four inches long. The growing mass, including green shoots and roots, is broken up into small pieces and the pullets eat it most ravenously. This kind of succulent feed was fed about two hours after the morning meal or at noon. I prefer oats to either wheat, barley or rye for sprouting because it is a cheaper grain, sprouts as readily, and is as nutritious as any grain.

SELECTING THE BEST PULLETS.

There were seventeen pullets raised altogether from the four hatchings. After they had been photographed and weighed on September 6th, nine of the most promising pullets were selected for special breeding purposes in the Spring, the other eight being removed to another pen. These nine selected pullets were kept in the same pen where they had been confined since they were first penned in August. The object was to prevent any possible setback in their development as a result of being moved. Experience had convinced me that it is not good to move either pullets about to lay or laying hens from one pen to another. Moving pullets has the effect of retarding egg formation and development,

and this was what I aimed to avoid in the case of these specially selected pullets.

The first two eggs were laid on October 15th. The pullets were then practically seven months old. It may be safe to assume, therefore, that from seven to seven and a half months is about the normal time when pullets of a heavy breed of fowls like the Plymouth Rocks begin to lay. The complete record of egg laying until the first dozen eggs were laid was as follows:

Eggs Laid		Eggs Laid	
October 15.....	2	October 22.....	1
" 17.....	1	" 23.....	2
" 18.....	2	" 24.....	1
" 20.....	2	" 26.....	3

These eggs were carefully laid aside for the purpose of ascertaining their weight in comparison with the weight of eggs as laid by the average farm flock in the United States. The first dozen eggs laid by these pullets weighed exactly 23½ ounces net. As published by the United States Department of Agriculture, the average weights of eggs as laid by different breeds of fowls in various parts of the country are as follows:

	Weight Per Doz.
Eggs from poor flocks of southern barn yard fowls.....	19 1-5 oz.
Eggs from the average Tennessee or Texas farm flock.....	21 1-3 oz.
Eggs from Kansas, Minnesota and Southern Illinois, representing the average for the United States....	23 oz.
Eggs from especially bred flocks in Southern Iowa.....	24 oz.

The weight of these pullets' eggs, therefore, was equal to the average weight of eggs as produced by the best farm flocks of fowls in the United States. As a matter of fact, it was barely possible to distinguish the pullets' eggs from hens' eggs as regards their size. Under a system of careful feeding, care and management, therefore, the normal development of pullets results in the production of eggs little less in size than ordinary hens' eggs. In this connection, however, as I said at the beginning of this article, it must not be forgotten that the ancestors of this pen of pullets had been bred for egg production for years, and it is possible that this might have had something to do with the size and weight of the eggs laid by these pullets.

On November 22d, when the pullets had been laying more than a month, they were again photographed and weighed. (See Photo No. 5.) At that time they had reached an average weight of 6¾ pounds exactly, which is probably half or three-quarters of a pound above the average weight of White Plymouth Rock pullets of their age.

The number of eggs laid by these nine pullets from October 15, when they began to lay, to November 28th, inclusive, was 83. From this record one would be justified in concluding that pullets, when they first begin to lay, do not lay as frequently as later in their life. It is my purpose to keep a complete record of the laying of these pullets during the Winter of 1915-16 in order to ascertain the number of eggs laid and also as a factor in determining the cost of egg production one of the most important problems now before commercial poultrymen from a strictly economic point of view.



Photo No. 5, November 22, 1915, the test flock of normal White Rock pullets, average weight 6¾ pounds. See article "Development of White Rock Pullets."

Barred Plym. Rocks and Their Breeding

CHAPTER I. Origin. The Gradual Development of Modern Color and Barring.
Why They Throw Solid Black Feathers. *By C. H. Latham, Lancaster, Mass.*



THE PLYMOUTH ROCKS were first bred prior to 1869, and were first exhibited that year in Worcester, Mass., by Mr. Upham, who can be justly called the originator of Plymouth Rocks. Mr. Upham's son, L. J. Upham, Webster, Mass., tells that the first cross was made with a "hawk-colored" hen, so-called, mated with a Black Java Male. This hawk-colored hen being of a rather uncertain origin, but quite a good deal in type of color like the mongrel-colored Plymouth Rocks that are seen today in flocks of Mixed breeds found in farmers' yards.

She was an active business bird, a good layer, having yellow skin and legs, a type that made an excellent table fowl, and was quite popular with farmers and poultry raisers near the home of Mr. Upham.

The males from this cross came with a large per cent of them having barred plumage, but for some years some of the females would come of pure black plumage, but having very yellow skins, were splendid layers, and made the very best of table poultry. An American Dominique male was crossed with some of the females of this first cross, and the progeny of this second cross were exhibited in a trio by Mr. Upham at Worcester, and the new breed jumped at once into popularity, which they have held to the present day. This trio was sold by Mr. Upham for \$75 at the show, a very good price for those days. As soon as the boom was on—and there was a good one too—the "hen fever" ran high. Mr. Upham tells that he has known his father and some other fancier to sit up all night talking about Plymouth Rocks.

Several other strains were started at once, but all coming to Mr. Upham, for birds or eggs. In some of these strains there was introduced blood from the Dark Brahma. I. K. Felch tells of it being used. The writer was told by H. B. May, one of the first breeders to take up the Plymouth Rocks, that there was a cross of game made. Mr. Felch says this was abandoned and not used. We can know for a certainty that there were three different bloods in the make-up of the Plymouth Rocks—two of pure bred stock and one of an uncertain origin. The blood of these three ancestors has been asserting itself continuously up to the present time, both in its good qualities, and in the other qualities not desired.

Just how the earlier breeders mated and bred their birds is shrouded more or less in mystery. The early Rocks were quite a different bird in Standard description from what we have today. Referring to the first edition of the Standard of Excellence, published in 1874, we have the color of Plymouth Rocks: Male—dark or light steel gray all over, and free from splashes of red, black, or white feathers in any part of the plumage. Female—dark or steel, mottled black and white; black and white bar well defined across each feather, evenly marked all over up to bill.

Also note the color of the Dominiques for that period: light slaty blue ground shade, each feather barred or penciled across with bands of dark slaty blue, free from white, black or red feathers.

Notice that the color of the Dominique was a combination of two shades of a slate color, or slaty blue as it was called. These two shades of slate must have been quite near to each other in color, and we see these same shades today in poorly bred Barred Rocks. It seems that the female of that period showed better barring than the male, this, no doubt, coming from the fact that a male Dominique was crossed with a dark, or possibly, black female that was the progeny of the Black Java and hawk-colored hen. It seems to be a pretty well established fact that the female progeny of a mating will take more strongly of the characteristics of the plumage of the sire than of the dame.

The introduction of the Dark Brahma blood must have

improved the tendency of showing the dark and light color in bars or lines. Mr. Felch tells that the colors of the two sexes were much alike in color of breast and body, but a light shade in hackle and saddles of the males for the first fifteen years. From this, one would gather that the double mating method of breeding was not practiced during the early years of the breeding of the Plymouth Rocks; that is, the demand for the two sexes to be alike in color for the show room did not come into existence till a later period. It was some fifteen years after the introduction of the breed that the demand came for the plumage to be barred to the skin, and then the real troubles in breeding began.

The combination of bloods gave the characteristics of the breed to cause the male bird to be of a lighter shade of color than the female, and when the demand came for the two



MADISON V

The first prize Bronze Turkey cock at the Pittsburgh Exposition Show (National Bronze Turkey Club Meet), January, 1915. This fine tom was bred and exhibited by Bird Bros., Meyersdale, Pa.

sexes to be of same shade of color in the show room, the double mating method of breeding became a fixed thing in Plymouth Rocks, and to this day has been known as the "cockerel-mating" or "cockerel-bred" stock used for producing males of the proper shade of color for the show room, and the "pullet-mating" or "pullet-bred" stock for the production of females of the proper shade of color for the show room, that is so they would be of same shade as the male color.

Theoretically the method of mating to produce these birds was as follows: To produce exhibition males select a fine exhibition colored male of proper shape and other good points needed, and mate this bird with females of quite a good deal darker color, so as to offset the tendency of the male coming of a lighter color than his sire. To produce exhibition females mate a fine exhibition colored female, good in shape and other needed points, to a male of several shades lighter in color to offset the tendency of the females coming of darker shade of

color than her dam. Of course it was understood that the matings were made up of birds of same line of breeding and males from a cockerel bred line were not used on females of a pullet bred line, or vice versa. In practice this was not done, only to an extent, for if one had absolutely been obliged to use such birds, there would have been but a very limited number of birds bred, owing to the fact that the per cent of really good exhibition birds of either sex, was not at that time, and never has been, very large. And as time has gone on, more and more intricate work has had to be done to produce the "top-notchers" of the show rooms.

When the writer began breeding them thirty years ago, the blue shade of color was very much in demand, the barring being softly blended one color into the other, so that very few birds showed the barring sharply defined, and none showed it to the extent that the better birds of today have it. The color of the flights and secondaries of the wings, were termed "marbled" instead of barred, and few of them had

in color. In those days a pullet bred male that had clearly defined barring in all sections was a very rare bird, and the writer never had seen one. Among the progeny from this male was one pullet that showed the barring more sharply defined than any bird the writer had seen, and the desire was born then to breed the Rocks with sharply defined contrasting bars, birds that would show the barring plainly when viewed from a short distance. Nearly all other birds he had seen, showed the dark and light bars of the bird blending more or less one into the other.

This, of course, produced the blue shade of color that was then desired, but a very large per cent of the birds of both sexes that were good as cockerels and pullets, all went to pieces as adult birds, and the barring became broken or more blended together, and the beauty of the barring lost. The writer believes this was owing to the strong desire of all fanciers and breeders for getting cockerels and pullets of high standard requirements, instead of working to have the cock and hen the finished product. We overlooked the fact that a young bird was *still in the making*, and should not reach its best in shape and color until it was an adult bird. This particular part of the breeding will be taken up in a later article.

The things in general most desired was to get birds of typical Plymouth Rock shape, good color and barring in the plumage, combined with yellow legs and beaks—not so difficult to do in breeding a light gray bird with weak contrasting bars like the Rocks of the earlier years.

The early Rocks had 50 per cent Dominique blood, the Dominiques having yellow legs and beaks, as well as did the original dam the hawk-colored hen. The Dark Brahma cross added more dark color to the beaks, and with the Black Java blood making over 50 per cent dark beak color in the breed. When we began to acquire more contrasts in the barring, which meant a more intense color in the dark bars, showing the bars the whole length of the feathers, the art of producing fine specimens of high standard requirements became much more difficult. We must not forget that one ancestor of the Plymouth Rocks was a black plumaged bird with black legs and beak, and that the later cross of Dark Brahma had a strong tendency for same dark color. Now, if desired, practically all the characteristics of an ancestor could be bred out or eliminated, and the characteristics of another ancestor acquired. We have steadily been acquiring more and more of the Black Java and Dark Brahma blood in breeding our present day Barred Plymouth Rocks. The constant selection year after year of the intensely colored birds for our best breeders has done it. Today we have the barring sharply defined, with the dark bar a clean, intense color, that is nearly a pure black, and in the best specimens contrasting with a clean, nearly pure white ground color, or light bar, and showing bars of greater or less perfection the whole length of the feathers, and in rare specimens having the ends of the feathers a dark or black bar. With this good color and barring we naturally lose in beak color especially, and to a less extent in leg color, owing to the dark blood that is predominating. It is a rare bird indeed that is down-to-date in color and barring, that has pure yellow beak and legs, especially in the females. This dark blood also shows with increased strength in the appearance of solid black feathers in various sections of the birds and the brighter and more sharply defined we get the two contrasting colors, the more prone they are to throw these black feathers.

We are slowly evolving a process of obtaining strong contrasting colors in our barring, breeding to have each color more in itself—and less of the blending of the dark bars into the light bars. At the same time we are slowly eliminating the dark color from the beaks and legs. This is really one of the most difficult things we are doing in breeding Barred Plymouth Rocks today. The process is a slow one, and the breeder who can see a little improvement each year should have courage, for he is slowly nearing our ideal of clean, pure, intense, contrasting colors in the barring, combined with pure yellow legs and beaks.

Sex may be distinguished, microscopically, by differences in the embryo chicks, as early as the end of the first week of incubation.



A typical White Wyandotte cockerel. Bred and owned by Oscar L. Bock, Council Bluffs, Iowa.

good barred wings, and either white or slate at base of the tail feathers, in males especially, was very common. The females of the cockerel bred line were dark, rusty, dull looking birds, such as a fancier would rather no one should see. And the same can be said of the pullet bred males, they being grizzly, washed out, gray, unattractive birds, having very little well defined barring. The writer recalls a male he bought in the early years of his work in breeding Plymouth Rocks, or as they had then become named the Barred Plymouth Rocks, as the White Plymouth Rocks had then become a breed, and soon after along came the Buffs, and others, trying to get into popularity by working on the reputation of the old Plymouth Rocks. This cockerel was procured to improve the color of my exhibition females or my "pullet-bred" line of stock, which was too dull in color and needed brightening up. He had very little barring and that all showed on the ends of the feathers, his under color was white and this white showed also in the wings and tail, but he had a fine bay eye and rich yellow legs and beak. The progeny of this cross was very much improved, tho there were some females all washed out

Specialty Breeding Barred Plym. Rocks

Notes from a December Visit to Valley View Farm, the Home of E. B. Thompson's "Ringlets."

By Prince T. Woods, M. D.



FROM MUCH that we read and hear, it would appear that a good many people look upon the fancy poultry business as anything but stable and permanent. It is not uncommon to have some "wise one" tell that the fancier-breeder is here today and gone tomorrow, and that, at best, he really remains actively in the business of producing Standard-bred poultry but a few years. Now when you meet a wise saying that pretends to present an "accepted truth" that "everybody knows is so and anyone can see must be so"—it is a pretty good plan—on general principles—to suspect that it is not really truth at all. A good many popular beliefs have sprung from some statement made with much solemnity and a great deal of self assurance, by some individual who knew nothing about the real facts—and such wise sayings have become accepted as popular truths thru much repetition.

One has only to look about him, with eyes that can see and ears that can hear, to learn that our foremost fanciers of today have been in the business, most of them, for a good many years—that they have grown up with their business and that because of them and their work, Standard-bred poultry is what it is today. We do not believe that the percentage of "quitters" in the poultry business is any greater than it is in any other profession or trade.

Now, when you find a Standard-bred poultry business that was started thirty-seven years ago and that has grown steadily in size and quality ever since, until the founder is not only still working at it himself, with abundant energy and enthusiasm, but has taken his two grown sons and a nephew into that same business as part and parcel of it—you must concede that the business has both stability and permanence. It must be a worth-while business and it must be *some* business.

E. B. Thompson, of Amenia, N. Y., specialty breeder of Barred Plymouth Rocks, and whose "Ringlets," their quality and their winnings, are well known everywhere that there is interest in Standard-bred poultry, has developed just that kind of a fancy poultry business. He says he has been at it thirty-seven years. We all know how successful his birds have been, and he now has a specialty breeding farm and poultry business that not only includes his two sons and his nephew, but also gives employment to two stenographers and four men the year around and an extra man for about five months of the year. The extra man, by the way, is a crack

shot and is employed in the chick growing season to devote his time exclusively to making war on hawks, crows, weasles and other varmints that might prey upon the valuable young chickens. This last season he killed twenty or more hawks, a weasle, some crows and skunks, and it is considered that the value of the chickens saved by his work showed a satisfactory profit above the wages paid him.

Valley View Farm, which is the home of the Thompsons and the "Imperial Ringlets" contains between twenty-one and twenty-five acres, of which fully twenty acres are devoted to the Barred Rocks. In addition to the home farm there is abundant range adjoining so that the growing stock may be said to have practically free range. The whole farm is rolling land situated in hill country with slightly views and good drainage on all sides. Along one edge of the range for growing chicks flows a small brook which is available for watering the birds.

Someone has said or written that Mr. Thompson does not care for colony houses and is thru with them for housing breeding stock, on account of the extra labor called for. It certainly did not look that way at Valley View Farm on December 2d, 1915. There were considerably over 100 colony



Residence of E. B. Thompson, Amenia, N. Y.

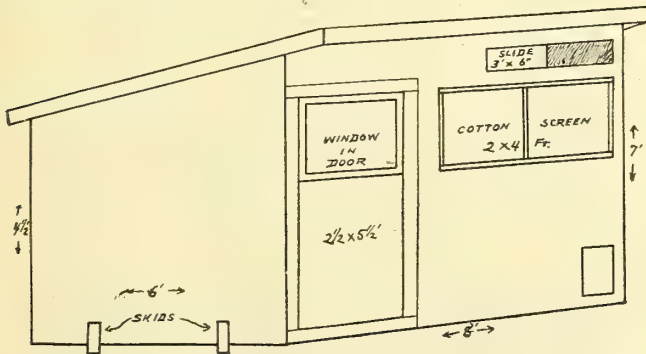


Diagram of 6x8 ft. colony house used in large numbers on plant of E. B. Thompson, Amenia, N. Y. This house is used for growing stock, surplus, and for small special mating. It is built on skids to make it easily portable, is 6 ft. wide by 8 ft. long and has a wood floor. The house is about 7 ft. high in front and about 4 1/2 ft. high at back. The door has a window. There is a 2 ft. x 4 ft. cotton screen on frame in the front, hinged at the top to swing out like an awning. Above this screen, for use when screen is closed, is a slide ventilator 6 in. high by 3 ft. long. The roof is covered with good roofing fabric and the house is painted green with yellow trimmings. There are two roosts about 8 ft. long. This makes a neat and attractive as well as useful poultry house for young or adult stock.

houses on the plant and several new ones, portable type built on skids to make moving easy, had arrived only a short time before we did. Valentine Thompson assured us that these houses are used for young stock in Fall and Winter, and in the Spring are used for small flocks of breeders. We did not count them, but would judge that the number of colony houses for surplus sales stock and for breeding birds, would run pretty close to 200, if not over that number. In addition to these large colony houses, which were about 6x8 ft., there were quite a number of 3x8 ft. colony coops and a large number of coops for hens with chicks, most of the latter being about 2 1/2 x 2 1/2 ft.

There were probably between 4,000 and 5,000 "Ringlet" Barred Rocks on the farm when we were there. We were told that the farm has a good demand for breeding stock the year around and that this season, so far, the sales of birds for exhibition and for breeding purposes have been particularly good. October and November were above the average in sales and the outlook was considered especially promising. A good many head of young and old stock are carried to take care of the sales demand, but the plant will generally Winter for breeding and show purposes about 1,000 head of adult birds and close to 2,000 head of young stock.

Each season approximately 4,000 chickens are raised, all hen-hatched and hen-brooded. These are hatched so that first lots of chicks come about the middle of March and the last hatches about July 25th. Some early eggs are sent out to be incubated artificially, but all stock grown on the home plant is natural hen-hatched and brooded.

When we were there most of the adult stock was rather ragged in moult, but, while they did not show up to best advantage, they did show the remarkably clean-cut, narrow, parallel barring that has made "Ringlets" famous, and there



The source of the water supply on E. B. Thompson's farm.

was abundant evidence that the barring went right down to the skin. We saw a good many late hatched chickens and there were a great many cockerels and pullets that were still in the "kid stage" and had not begun to ripen into maturity. Then, too, there were plenty of well-developed young specimens that were just coming into full finish and were full of promise of honors that may be won by the time this story is printed. Good sized birds, good legs, good skin, massive bodies and the whole decked off with plumage having that beautiful "zebra striping," making them a sight worth seeing. Going from flock to flock one could not help but be impressed by the family resemblance, the remarkable uniformity in type and coloring, exhibited by whole flocks, not by just a few individuals. Such uniformity can only result from many generations of careful line breeding by a specialist who has a definite ideal in view.

In his advertising E. B. Thompson says: "If you want to win and breed winners you must have my Imperial Ringlets—they are the Standard by which all other Barred Rocks are judged." Coming from a man who has just retired from the presidency of the American Poultry Association, which publishes the only official American Standard, that statement might be subject to deletion by the censor, when we get that new committee that is to censor all advertising, but we have no doubt that Mr. Thompson believes it and means it. He has been specialty breeding Barred Plymouth Rocks for so many years and, as his success proves, keeping well in advance of the fashion, that he might well be said to have been breeding ahead of the Standard rather than breeding to Standard. And we believe that most of the leading successful breeders do likewise with their favorite varieties.

The main breeding houses on Valley View Farm are all long houses, most of them of the conventional double-pitch roof type, with a muslin and glass window in each pen. The muslin windows are kept open most of the time to insure better ventilation. We noted a row of six 20x20 Woods' open-front houses, built close together step fashion to accommodate the slope of the land and making the buildings accessible as a continuous house, giving twelve large pens for breeders and surplus sales stock. Close by was another large Woods' house, just completed, 20x50 ft. with a feed room at one end. Surplus sales stock and layers are housed in this building and it is considered a very satisfactory house.

The long breeding houses accommodate forty-five pens of cockerel matings and thirty-five pens of pullet matings. Under one of the long houses is a new, large root and vegetable cellar, where are stored large quantities of mangel beets and cabbages. The cabbages are placed on shelves so that they do not touch and it is believed that this plan will keep the heads in better condition for feeding.

Two long houses are devoted exclusively to cocks and cockerels and each bird is given a good allowance of house space. It is found that by so housing the birds separately it is much easier to get them into condition and easier to hold

them in good show or shipping order. A new shipping and conditioning house 24x44 ft. and two stories high has just been completed. Here birds are cooped, groomed and prepared for shipment. The upper floor is given over to storage of shipping coops, both for domestic and foreign shipment, which are bought in carload lots. Domestic shipping coops are bought already set up, foreign shipment coops are set up on the farm. In this building there is also a ninety-gallon kettle of heavy iron over a large heater, which is used for heating drinking water in Winter. All birds are given their Winter drink luke warm. The building also has bins for storage of considerable quantities of grain.

The method of cooping and training birds on this plant differs somewhat from common practice. Long continued close cooping is not permitted. As Barred Rocks do not have to be washed the birds go into the coops for training and grooming only. Females seldom require more than a week of training, while wild cockerels sometimes require patient handling for three weeks. But the cooping is not continuous and is not overdone. The birds are moved about from time to time. Male birds are given the opportunity to run with a few females in a small pen from time to time while being trained. Feeding does not differ materially from the regular ration, except that birds that are well advanced are generally kept chiefly on hard grain, while those that are a bit slow coming into finished condition get mash, chopped meat and other dainties to help them along.

While all of Mr. Thompson's stock is closely line bred, or "pedigree-bred" considerable pains are taken to avoid over-close in-breeding. We were assured that there are four distinct family lines of each sex. These are necessary for the integrity of the strain and it is obvious that with such line-bred stock one would risk much by going outside of the strain for "new blood." In all matings care is taken to avoid similar defects on both male and female side and pains are taken to strengthen weak points on one side by strong points on the other side of the mating. In the breeding pens from four to ten females are mated to one male.

During the breeding season trap nests are used. These are considered absolutely essential to successful line breeding. In order to know how fine chicks are produced it is quite as necessary to know the dam as it is to know the sire. By use of trap nests nothing is left to guess work. E. B. Thompson knows which female and which male produce the kind of specimens he is striving for. In telling of the use of trap nests, Valentine Thompson told us of a particularly fine hen that had never given satisfactory hatchability in her eggs, much as they desired to get chicks from her. Finally they succeeded in getting from the eggs of this hen one season a number of specially fine pullets, "every one a good one." And then something happened to the hen, or as Mr. Thompson put it "like some fruit trees, she put all her life effort into one good yield of exceptionally fine fruit." The product of this hen could not have been identified and saved to the strain without trap nesting. So the verdict is that no one who desires to line breed exhibition stock, and that is the only way to breed exhibition quality, can afford to do other than pedigree breeding with the aid of trap nests.

While this plant has a good demand for breeding stock the



One of the long breeding houses on E. B. Thompson's farm.

year around and for hatching eggs for the greater part of the year, quite a considerable number of market eggs are sold in the Summer and fall and all culls, or chickens with serious defects, are sold as market poultry.



A group of colony houses on E. B. Thompson's farm.

As for volume of business in exhibition and breeding stock and hatching eggs, it must be a very considerable business in order to maintain the plant in its present prosperous condition. Certain it is that large quantities of stock and eggs are shipped from this farm all over the world. As the local liveryman put it, when driving us from the station: "They sure do ship an awful pile of eggs and chickens."

The ration for small chicks used on this plant is largely Orr's chick food, made from seasoned old grain. This is given three times a day. Sometimes a little stale bread crumbs are used to start the chicks. All chicks are reared with hens, in small colony coops, the hen being confined and the chicks allowed to run. When chicks are one month old they get a mixture of fine cracked corn, cracked wheat and hulled oats. They have the grain mixture morning and evening and a moist mash at noon. The moist mash, made just crumbly, of following proportions: Bran, 200 lbs.; middlings, ground oats and corn meal, each 100 lbs., with 15 per cent beef scraps. All feeding is by hand up to ten weeks old, after which the grain mixture is fed in troughs or open hoppers, and is as follows: Cracked corn, 100 lbs.; whole wheat, 100 lbs.; hulled oats, 50 lbs. When the chicks are from three to four months old the mixture is about as follows: Larger sized cracked corn, 100 lbs.; whole wheat, 100 lbs.; heavy clipped oats, 50 lbs.; good clean barley, 50 lbs., and a similar quantity of good Kaffir corn, if obtainable. Only good quality feeding grain is used. The corn is mostly white flint, but some yellow Argentine flint corn was used this last season.

Ration for breeding stock consists of scratch grain; 100 lbs. each of cracked corn, wheat and barley, with about 50 lbs. each of best clipped oats and good Kaffir corn. Buckwheat is used when available. Dry mash is supplied in hoppers, which are not opened until noon, and is made as follows: Bran, 200 lbs.; middlings, 100 lbs.; ground oats, 100 lbs.; alfalfa, 100 lbs., and beef scrap, 15 per cent. At moulting time or fitting time some stock slow to feather and develop is given change from this ration and may have beef scrap before them in separate hopper. Clean water, grit, shells, granulated bone and charcoal are kept always before the birds. Green food is kept growing in the runs or supplied by grass on range in Summer, and in Fall and Winter cabbages and mangel beets are the main supply. Sometimes sprouted oats are used. Cut raw meat that would pass for pretty good Hamburg steak is fed to promising specimens to hasten moult or to promote more rapid development. In fact, it is easy for any observer to note that nothing is too good for "Ringlet" birds as long as the desired results are accomplished.

Like any other well-organized business, that is also largely a mail order business, and where the majority of customers send cash with order, and do not come to see the stock before they purchase, particular attention is paid to satisfying customers. The satisfied customer is looked upon as the best advertisement and business asset, and every effort is made to make a permanent customer of him. With any live stock business there is always opportunity for a difference of opinion concerning the value of specimens between the specialist

who sells the stock and the less experienced person who is the buyer, and John Thompson, who handles a considerable part of the office business of the plant, assured us that, when such cases come up, every effort is made to satisfy the customer, even tho it might seem that he is in the wrong.

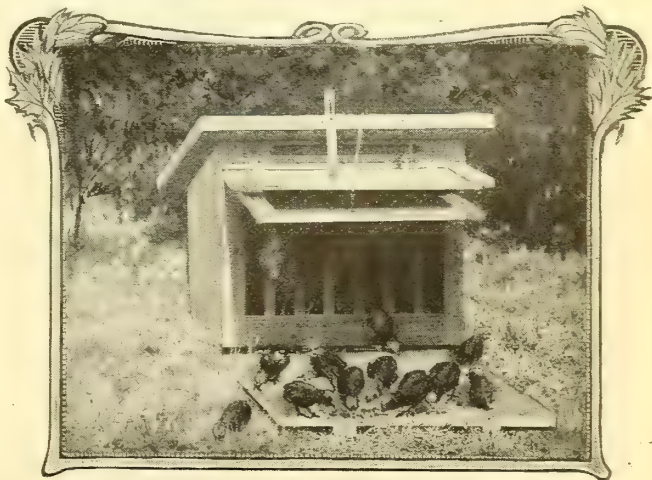
The visitor at the Thompson farm will be pretty certain to notice how the colony coops for growing stock are scattered pretty much all over the farm, some flocks even occupying the front lawn, and that one must cover a mile or more to make the round of the colony flocks at feeding time. At Valley View they consider that it is necessary to have the flocks located well apart so that the birds all get an equal chance at the range and do not bunch in large numbers. It has been found that these quality Barred Rocks do not seem inclined to wander very far afield as foragers, as do other varieties more given to the wanderlust and foraging and so do not do as well when flocks are close together. We are inclined to believe that it is not all in the lack of inclination for wide afield foraging, in these flocks; for one thing the rolling character of the land is not conducive to easy or satisfactory concentration of flocks, and then, too, the birds are so well fed and cared for that there is not a great deal of incentive to foraging. It takes a very active or a hungry bird to wander far from the home coop in search of food.

Valley View Farm grows some cabbage, beets and other crops, chiefly to keep the land sweet, as there is not sufficient acreage to grow more than a very small proportion of the supply required.

Back Lot Poultry Keeping.

I can most sincerely, from my own practical experience, advise all ladies, as well as gentlemen, who have a little room to spare in their back gardens, to set up poultry-keeping on a small scale. Many more people keep fowls than used to years ago, I know, but still not half people enough. Many who have room to spare for a family of fowls let that room remain unoccupied, either from a mistaken idea that poultry-keeping is too expensive or will entail too much trouble on them. With regard to the latter idea, it is, no doubt, a partially true one. Fowls do cause trouble, and if they are to be made to pay their way cannot fail to do so. But whatever trouble they cause they are worth it, and no undertaking or pursuit that I ever heard of flourished without some amount of trouble. In return they give fresh eggs—that you are sure of, and can offer a guest without any inward misgivings—plump chickens, a little pocket-money, and a great deal of interest.—Mrs. Eliot James.

Dr. Woods says: "Exercise and fresh air are important to the proper assimilation of food for best results from layers and breeders. Exercise prevents misappropriation of food and the laying on of too much fat. A diet that with exercise proves excellent for egg production will, if the fowl be prevented from exercising, prove fattening. If you feed a diet rich in protein, and neglect to provide for exercise, you simply pay for high priced food to produce fat which can be more cheaply produced by feeding fatty food."



The brood coop used exclusively on E. B. Thompson's farm.

Reasons Why I Keep Black Langshans

First Prize Article Winning the \$100 "Sex-Bred" Hen Offered by Herb E. Sharp, Spokane, Wash., in December American Poultry Journal for Best Langshan Article. *By J. F. Robinson, South Weymouth, Mass.*



MANY years ago, while on the hunt for a hen to set, I saw my first Black Langshan, a fine large beauty, almost ready to bring off her brood. Her owner brought her down from the attic, nest and all, for me to see. I told him, and I meant it, that she was the most beautiful fowl I had ever seen.

It was several years later, as I was walking thru the country, that I next saw any Langshans, and this time it was a lordly cock that attracted my attention. I resolved then and there that some time I would have some of them for myself.

Later the same season, I saw a small brood of little fellows and from then on "chicken" to me spelled—*L-a-n-g-s-h-a-n*. Several times during the summer I walked past this place just to get a glimpse of these little beauties, until the "fever" finally got so severe that I bought them.

There is nothing in the poultry world to me so attractive as a Black Langshan, with his lordly carriage, proud look, and beautiful glossy green-black plumage, and it was because of this attractiveness that I began to keep Langshans.

In the spring of 1909, I started my present flock with 30 eggs bought from one of the best breeders of the central west. From these 30 eggs I succeeded in raising to maturity three fine pullets and a beautiful cockerel. These four birds were wintered in a cloth-front, piano-box house, on a hill overlooking historic Dorchester Bay, and in the path of New England's famous East winds.

The first egg was laid December 1, 1909, and during the 130



The beginning of Robinson's flock of Langshans, housed in a curtain-front piano-box house during the bleak New England winter of 1909-10. From December 1, 1909, to April 8, 1910, three pullets laid 238 eggs. See first prize article "Reasons Why I Keep Black Langshans."

days of extreme winter, and cold, wet, New England early spring weather, between that date and April 8,—when I was unfortunate enough to lose one of those three pullets—they laid just 238 eggs, or an average of 59%. One of the two remaining hens laid 162 eggs and hatched and reared a flock of chicks, while the other hen laid just 203 eggs during the year. Two months during the year—March and May—this hen laid 25 eggs. She closed her year, after having gone thru her moult, with a total of 20 eggs for November.

Out of a lot of 36 chicks I raised 14 pullets and, without culling at all, these pullets, from November 1 to October 31 of the following year, averaged 165 eggs. A flock of fifty pullets and one, two, and three-year-old hens, all running together, averaged 149 eggs for the year.

At the Australian Egg Laying Contest in 1907 Langshans won first in number of eggs laid; first in winter laying and first for most eggs in two years.

At Mountain Grove, Missouri, 30 Langshans, in competition with about 600 hens of all other breeds, were second in 1912. In 1913, for the winter months, November 16 to April 1, Langshans led the field with an average of 66 eggs, the nearest competitor having 55, and they finished the year winners over all competitors with an average of 160 eggs.

The Standard weight of Langshans is, cock, 9½ lbs.; hen, 7½ lbs.; cockerel, 8 lbs.; pullet, 6½ lbs. I have found it very easy to bring my birds up to, and, in the majority of cases, over these weights. Two and three-year-old hens and nine to ten months old cockerels will generally weigh, when fat, from 8 to 10 pounds, and at the top prices, which they always command, help very materially in reducing the "high cost of living" so much complained of these days.

Strange as it may sound to some of our "light weight breed" breeders, the Langshan, altho one of the largest of fowls, is also one of the most active.—As the songbird hankereth after sunshine, so hankereth the Langshan after a place in which to dig or a field over which to roam in search of food. Here's another fine thing about this great breed; under ordinary living conditions, and ordinary methods of feeding, they do not take on excessive fat as do some of the American breeds, and this is true even of three and four-year-old hens kept for breeding purposes. The hen spoken of above as having laid 203 eggs is still, at 6 years and 9 months of age, in my yards, and altho she runs the greater part of the time with pullets and yearling hens, she has never yet been overfat, and is today as spry and hard-working as any of the young stock.

During the latter part of May, I needed a setting hen, and, finding this "old lady" on the nest, I gave her the eggs, the first time she had ever been given a rest from the laying pen. She hatched out and reared her flock, and in July, while still running with them, she laid 12 eggs, following this in August with 14 eggs. She has since passed thru her sixth moult and attended two shows, one the New York State Fair at Syracuse, and the other at Providence, R. I. I have two other hens 5½ years old that were in my first pen at Boston Show, 1910. These also, while very large hens, are still in excellent condition, and during the past season were doing their duty on the nest. This extreme hardiness is another "feather in the cap" of Langshans.

I might go on telling of the virtues of this noble breed until I had used up the whole of "the oldest poultry paper in America," but as I have about come to the end of my allotment of space I will close by saying:

Langshans are beautiful to look at; unexcelled as pets; satisfying to the palate and the purse; and the greatest chicken of them all. I began keeping Langshans because of their attractiveness; I have continued to keep them because of their proved usefulness, and I expect to continue to keep Langshans as long as the Good Lord permits me to keep any kind of fowl, because to me they, of all breeds, come the nearest to being a perfect blend of the two greatest things in the world—Beauty and Utility.

WHY I BELIEVE IN AND BREED BL. LANGSHANS

Second Prize Article Winning the \$25 Sitting of Eggs Guaranteed to Produce "Pullet-Producing" Langshans Offered in December A. P. J. by Herb E. Sharp, Spokane, Washington.

By FRANK D. HACKETT, North Wilkesboro, N. C.

I BREED Black Langshans because, from my experience with chickens as an amateur—extending over a period of twenty years—I have found no fowl that comes nearer meeting all the requirements of a general purpose fowl, suited to keeping on small town lots.

I have owned and bred Partridge Cochins, Buff Cochins, Brahmas, Wyandottes, Cornish Indian Games, Leghorns and

Black Minorcas, but in all my experience and observation none of these have the hardiness, the sound constitution, the activity as foragers, the all 'round egg producing quality, and the ideal requirements of a table bird, that the Black Langshan does.



The first great distinguishing characteristic of the Black Langshan is the fact that it is always true to type. There are no sports or shoot offs in Black Langshans—they are simply Black Langshans, and when you set Black Langshan eggs, from the hardy stock that most of them are, you can count on getting, almost always, a hatch of at least 75% to 90% of Black Langshan chickens. During the past summer I had several sittings of seventeen to eighteen eggs each that hatched every egg.

The second characteristic, that makes them the premier chicken, is their superb constitution and disease resisting powers. During all the years I have owned them I never saw one that had cholera or that was diseased, except a few chickens that last season roosted away from the perch on the damp ground and a few of them had slight colds for a few days and all of them recovered except two. No other disease has ever interfered with them, while on the other hand, on the same lot, I formerly had other breeds die like sheep with the rot.

A third characteristic, is their magnificent all the year around egg production. They are 'as layers, the equal, the year thru, of any of the "exclusive egg producing breeds" that I ever had and superior to several of them.

Fourth, as a table fowl they are unsurpassed, as broilers, fryers, roasters or boiled. Their meat is white, clean, sweet, tender, juicy and delicious. So far as cleaning is concerned they are as easy to dress as a Wyandotte or Rhode Island Red and they have very few pin feathers to mar the appearance of the skin. When dressed the skin is a beautiful white and their attractiveness is increased by the full plump breasts, large thighs and their large size, which make them an ideal table fowl. A fowl or chicken that when properly stewed, boiled, fried, broiled or roasted, will please the palate of an

epicure, the gourmand, the fastidious connoisseur, or even plain "black Sambo" who believes in getting his chicken after all others of the human race have retired to the shelter of their "virtuous couches."

A fifth characteristic, of this noble fowl and most beautiful pure breed, is its history. For over three thousand years it has been the favorite bird of the "royal mandarins" of the great empire of China as sketches on the "great Chinese wall" show, and during all these years it has maintained its distinctive type and superior characteristics, with as little deviation as has been shown by the race that first propagated it.

Those who once try Black Langshans fairly and fully, will never throw them aside for any other breed or variety.

Condition Indicated by Droppings.

Normal poultry droppings should be of sufficient consistency to hold their shape, but should not be too solid. In color they should be dark, tapering off into grayish and white. If the droppings are watery and dark with red splashes of mucus in them, feed less meat food. If the droppings are soft or pasty and yellowish or brownish, feed more meat and less starchy food. Greenish watery diarrhoea should always lead to a careful investigation of the sanitary conditions and the condition of the food and water. It is a danger signal.—Dr. Woods.

* * *

Eggs and Egg Yield.

Eggs should be regularly collected every day. The wide-awake fancier can often learn to distinguish the eggs of individual hens, and when this is possible, it is very desirable. Thereby, when it is desired to set a hen, the eggs can be retained only from the finest hens or those that are the best layers. Hens of the laying breed will lay 150 to 250 eggs per annum; common hens average about 100 eggs per head.—W. Atlee Burpee in *The Poultry Yard*, 1876.)



The Golden, Silver and White Wyandottes as produced by Ira C. Keller, Prospect, Ohio, have long been recognized as being bred very close to Standard requirements and have won their full share of blue ribbons in strong competition.

"WE LEAD, OTHERS FOLLOW"

EDITORIAL

American Poultry Journal

Entered as Second-Class Matter August 9, 1886, at the Postoffice at Chicago, Ill., under Act of March 3, 1879

70,000 A. P. J.'s for January, 1916.

State of Illinois, County of Cook, ss.:

G. M. Atwell, president of the Atwell Printing House, Chicago, being duly sworn, certifies that the American Poultry Journal has contracted for printing and binding 70,000 copies of the January, 1916, issue.

G. M. ATWELL,

Subscribed and sworn to before me this 15th day of December, 1915.

[SEAL]

HENRY G. EISERT,
Notary Public.

OUR GUARANTEE.

We guarantee our subscribers against loss due to fraudulent misrepresentation in any display advertisement appearing in the American Poultry Journal, providing the subscriber when ordering the fowls or merchandise states that the advertisement was seen in the American Poultry Journal, and places the order during the month or months in which the ad is inserted in our columns and notifies us of the fraudulent misrepresentation of the advertiser, giving full particulars, as soon as it occurs.

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AMERICAN POULTRY JOURNAL is the oldest poultry paper in America. It has a national and world-wide reputation. The best writers on poultry matters contribute to its columns. It receives the patronage and endorsement of the foremost representative breeders of standard poultry and manufacturers of poultry appliances in the country.



HAPPY NEW YEAR, EVERYBODY!

May Peace, Prosperity and Happiness be the lot of each and every reader of AMERICAN POULTRY JOURNAL is our first 1916 wish, for the great and growing family of AMERICAN POULTRY JOURNAL Readers. Young and old, beginners and veterans, fanciers and breeders, small flock poultry keepers and big plant poultrymen, we are strong for you, and wholly with you, for all the good things that the New Year promises.

AMERICAN POULTRY JOURNAL aims to cover the whole field of poultry culture, to include all branches of this interesting, useful and valuable profession or business, and to show special favors to none. The field is broad, the work is worth while, and you will find AMERICAN POULTRY JOURNAL for 1916, as ever, full of helpful and instructive articles about poultry and all branches of poultry keeping, full of real live human interest from cover to cover—and every issue worth many times the yearly subscription price to any earnest poultry keeper.

You need us and we need YOU. Don't miss AMERICAN POULTRY JOURNAL for 1916. If your subscription expires with this issue RENEW NOW. If your subscription still has some time to run, look over our several special offers and SEND IN YOUR RENEWAL NOW and have your subscription extended from the expiration date. We are not going to tell you what the numbers for the coming year will contain. We have never been strong for "prospectuses" and announcements of articles that are stale for months before they are published. We like to give

you surprises in good, wholesome, "new laid" reading matter, delivered each month "fresh from the nest" and "with the cackle on." You know we mean it when we promise you that we will deliver big value for your subscription money in 1916, so mail your order and your dollar now.

Advertising business is good and we are getting a nice lot of new advertisers, as well as holding fast to our good old friends and customers. Advertisers know that readers really READ AMERICAN POULTRY JOURNAL. They know that readers buy AMERICAN POULTRY JOURNAL because they want to read it, advertisements and all, from cover to cover. They know that advertising space in AMERICAN POULTRY JOURNAL is a mighty good investment, because it brings prompt and fine results. AMERICAN POULTRY JOURNAL gets into the mails on time, it gets to readers on time, and, believe us, they waste no time about ripping off the wrapper and wading into the contents,—why, we begin to get inquiries from the current issue so soon after the paper gets into the mails, that we cannot help wondering how it is done, and how Uncle Sam delivers the goods so quickly. AMERICAN POULTRY JOURNAL advertising service is good service, prompt service, and result getting service. Ask the advertisers.

This January number marks our 47th birthday, we are hale, hearty, and happy, and looking forward to a season of unusual prosperity for our friends and for ourselves. We are celebrating just a little and hope you like it. We intend to keep on striving for improvement as we grow older. And, now, we think that is about enough personal talk for the present.

Readers, Advertisers, Everybody, Old Friends and New, we most sincerely wish you, one and all, a Productive, Progressive, Prosperous and HAPPY NEW YEAR. May you live long, live well, and enjoy peace and plenty, you and all of yours.

AMERICAN POULTRY JOURNAL.



WHEN SCIENTISTS disagree, where is the poor layman at? What is and what is not hereditary has been discussed, and not infrequently "cussed," for ages.

At one time we were told that certain diseases were more or less directly inherited. When that view came to be untenable we were taught that diseased parents transmitted to their

young a predisposition or tendency to the disease, a susceptible and weakened constitution. Now we are told that what is really "inherited is an unfavorable hygienic environment — an opportunity for exposure to the dangerous surroundings that had been the real menace to the victims of a previous generation, rather than disease itself."

Now it may be that the "tendency" to roup in the chickens born of roup parents, is in a large measure due to the fact that the chickens are subjected to the same unfavorable conditions and surroundings that caused roup in the parent stock. But that does not explain why chickens from eggs of roup parents, the eggs having been shipped a long distance — hatched under favorable conditions and the chicks reared in new coops on new ground — should so often develop roup at almost the same period of life that the parent stock had it, or, if they do not have actual roup, why they are so susceptible to roup colds. The experience is too common to be ignored.

This is a period when scientists try to fit most things concerning heredity into the scheme of Mendelism. With plants and some animals, particularly guinea pigs, we can very nicely follow the plan of "Mendel's law" and get our "dominants" and our "recessives", and more or less regularity in inheritance. But in some cases the principles appear to fail, and it is worth while to withhold our decision for a while until we see what another turn of Time's wheel may bring. Crossing the white and the black races does not bring definite black and white individuals, but we get a good many variations of brownness from such matings in the human family. In poultry breeding we get many remarkable variations that, apparently, will not fit into the Mendelian scheme.

We get bred-black birds that moult white. We get bred-white birds that moult in black, brown and red feathers, but generally black, as late as their third or fourth year, when previously they have

been snow white. We get red birds, that have sound undercolor, that do not develop any black in surface of back and wingbows until the second or third year and then moult in a very considerable quantity of black in these sections. In spite of evidence produced to the contrary, we do get rose comb sports from single comb Rhode Island Reds; we also get pea comb sports from such Reds and have had pea combs show up in White Plymouth Rocks that had been inbred, and breeding nothing but single combs previously, for four years. We all know that side sprigs, certain abnormalities of the body, extra toes, down between the toes, and off color in plumage, face or legs, will crop out most unexpectedly. We know these things because we have experienced them with birds we had under close observation.

We bred a pair of White Faverolles and got all pure white chicks. One of the cockerels we bred back to his dam and to one of his sisters and we got a number of white chicks, but we also got one almost solid black Faverolle pullet of good type, four partly lavender laced white pullets—one with black legs and four toes—and a cockerel that is a Faverolle, but has some feathers with as many colors as Joseph's coat. We don't know how to explain it, but we know that it is so, and if we have good luck we hope to continue inbreeding these birds and watch the results.

We know this much about heredity, that certain abnormalities are inherited with considerable regularity,—that certain family tendencies are transmitted in greater or lesser degree and that some peculiarities in shape, type or color or some abnormality like side-sprigs, thumb-marked combs, slipped-wings, etc., will crop out, from time to time, after

having, apparently, skipped a generation or two.

As a matter of fact, with all of our science, our theories and our 'sms, we are still guessing a whole lot when it comes to heredity. What we are so cock-sure of today we may have to unlearn tomorrow. There are more things in Heaven and Earth than are dreamt of in our philosophy, and we are learning very slowly. There is a whole lot of evolution and a vast legion of ancestors back of all of us and our fowls, and much as we may believe in, and clamor for, "scientific facts," it isn't a bad idea to play safe in our poultry breeding. And it is a safe play to breed only healthy vigorous fowls and to avoid breeding from fowls which have been sick.

Most people have for their chief aim in life that of making money. Money is good to have, as are also the things which money can buy. But in getting money, let us be very sure that we are not losing the myriad of goodly possessions which money cannot buy, else the mere getting of money will profit us nothing.

1916



*Nineteen-sixteen, Nineteen-sixteen,
Ring, bells! Herald, sound your horn!
Nineteen-sixteen, Nineteen-sixteen,
A Glad New Year is born.*

*Nineteen-fifteen, Goodbye, Goodbye!
To have you go we're glad,
For your history's blood-red pages
Tell of half a World gone mad.*

*Nineteen-sixteen, Welcome, New Year!
Work quickly and work well,
Bring sanity to our White Race,
Save them from the Jaws of Hell.*

*Nineteen-sixteen, Oh, Glad New Year!
May you see all warring cease,
And Comrades made of all Mankind
In a World of Lasting Peace.*

*Nineteen-sixteen, Nineteen-sixteen,
We're glad that you are here,
May you most Free and Happy be
For All Folk, far and near.*

—PRINCE T. WOODS

Danger in Kerosene.

FOR goodness sake, friend Poultryman, do *stop* using kerosene so freely and carelessly as a poultry remedy. Just because kerosene (coal oil) is cheap and usually on hand for illuminating purposes, there is no sense practicing actual cruelty to your birds by using it freely on them when the poor things are sick. We know it is often recommended for roup, colds and various other troubles, and that some people seem to be able to use it and get away with it—but if you value your poultry do not use kerosene in the drinking water, or as an external application to the soft parts, or as internal medicine.

It is a common thing to see the recommendation that, to prevent and cure colds, a thin film of kerosene should be used on the drinking water. One prescriber went so far as to say the film of kerosene should be from one-eighth to one-quarter of an inch thick on top of the drinking water. **DON'T DO IT.**

This Fall season, just passed, we have been called to see sick fowls on a number of farms, all suffering from some "strange and mysterious disease." These poor fowls had had just simple Fall colds originally, but had been tortured almost to death by careless use of kero-

sene as a "home remedy." **IT IS TIME TO STOP SUCH CRUELTY.** We found specimens blind in one or both eyes, birds with badly blistered and inflamed heads, feathers gone, skin red and covered with thick yellowish crusts. It was not the result of disease, **KEROSENE DID IT**, used on the drinking water. We found fowls with throats so inflamed that they could not swallow food—**KEROSENE AGAIN**, internally in half and full teaspoonful doses. We found fowls that had suddenly stopped laying and begun to droop; examination discovered frightful sores and blisters on breast and between thighs and body — **KEROSENE ONCE MORE**, this time used on the roosts and drop boards late in the afternoon so that the poor birds went to bed on perches *wet* with kerosene. When kerosene is used on roosts and drop boards to get rid of vermin, be sure to **USE IT IN THE EARLY MORNING** so that it has ample time to dry into the wood before roosting time. There is grave **DANGER** in the use of kerosene as a poultry remedy. There are simple remedies that are much better and **FAR MORE SAFE**. Do not be careless with kerosene. Do not be cruel enough to make your birds suffer from blistering and injury from kerosene, far more than they would from slight, easily-

cured colds. Never mind about the wonderful cures neighbor says he made with kerosene, we have seen some of neighbor's poor afflicted fowls and we have told you a part of the sickening things we saw. If you do not know what to do for a sick bird, and cannot get advice promptly from some one experienced in treating the sick, then put the bird into a clean open-front coop, feed and water it, and *let it alone*. This plan is far safer and more productive of good results than the ignorant and careless use of "home remedies."

Sex Control.

WHEN breeding poultry, can we govern or control the proportion of sex in the progeny of a given mating? For hundreds, yes thousands of years, poultrymen have believed that it could be done and the theories have been many and interesting.

Nearly every breeder has observed that some matings will throw a large proportion of one sex in the offspring. Back in 1885 we owned two Buff Cochins that threw pullets almost invariably and cockerels rarely. Though we noted the fact and called it to the attention of some fancier friends, we were too young and inexperienced then to realize the opportunity or to know how to take advantage of it.

Now comes Herb E. Sharp, of Washington, who has made a study of "sex control" in cattle and poultry breeding. He has studied the mating and inbreeding of Jersey cattle, where cows have dropped all heifer calves, or five heifers to one bull, and he has endeavored to apply such breeding to poultry. He be-

**The RED SUSSEX MAN is BUSY**

I am busy this month, judging at the following shows in January: Madison Square Garden, N. Y.; Cambridge and Lima, Ohio; then Boston, the 2nd Chicago show, Bryan, Ohio, and La Porte, Ind. I judge the last show of the season at La Porte, January 27th. **During this time I cannot write personal letters.**

Mark this date, **February 15th**, a complete mating list describing all my pens will be ready for mailing. I am going into the breeding season as strong as possible. As the show season is advancing I am getting more and more reports of list prize birds, either birds I have sold, or birds hatched from my eggs.

F. L. PLATT,

SWANTON, OHIO

Fashion Plate Buffs

Buy one of our \$10 or \$15 cockerels and improve your flock by the introduction of **FASHION PLATE** blood.



Buy a yearling cock bird at the same price to mate with your pullets and note the improvement in your 1916 chicks.

Pullets or hens, all raised from our trap-nested families, at \$3.00, \$4.00 or \$5.00 each—guaranteed to please or money refunded.

Eggs Eggs Eggs

Send for the new *Fashion Plate Book*; study our 30 matings, articles on trap-nesting, conditioning show birds, dry mash feeding, care of little chicks, etc. 60 pages. Free.

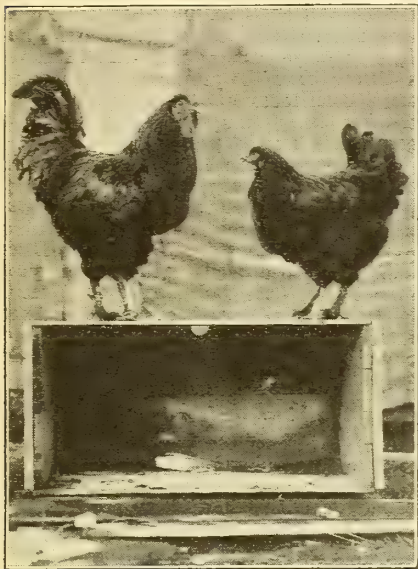
A. E. MARTZ

Buff Orpington Specialist and Judge

Box A

ARCADIA, INDIANA

lieves he has found the key to sex control in poultry. Starting with a single pair of Black Langshans, the male being the head of the first pen in Tacoma in 1911-12, this foundation pair being known as "Champ" and "One Hundred,"



Black Langshan pair that founded Herb E. Sharp's strain of "female producers," the birds that revealed "Sex Control," — the cock "Champ" and hen "One Hundred". Mr. Sharp says that this pair produced sixty chicks, all pullets but one. The prize hen and the prize eggs offered in the American Poultry Journal Black Langshan article contest are from stock line bred from this remarkable pair. See editorial.

he claims they have, in three years, given him 60 chicks *all pullets but one*. Five daughters bred back to their sire produced in one year 75 chicks, all pullets but two. This "female producing strain" has been closely and carefully inbred and contains no blood but that derived from the original pair. Mr. Sharp promises to tell the story of his work in breeding for sex control in poultry in AMERICAN POULTRY JOURNAL for 1916. He writes well and to the point and his articles are certain to be interesting and worth while. Whether you agree with Mr. Sharp's views or not, you are certain to find the details of his experience both interesting and instructive. Herewith we present a photographic view of the foundation pair of these "female producing" Black Langshans, the cock "Champ" and hen "One Hundred." The owner says that, from the mussed feathers of these birds and the pose they assumed naturally, the reader can see that they are "untouched and unretouched." We hope to print the first article on breeding for "sex control" in one of our big early Spring issues. It should be worth waiting for.

To the Beginner.

IF YOU are intending to start with poultry, NOW is a good time to get your breeding stock and to place your order for hatching eggs or day-old chicks for early Spring delivery. Get your order in early to avoid disappointment.

By all means buy the best Standard-breds you can afford. Read the adver-

tisements carefully and buy of the man who has stock bred for the purpose for which you desire to breed. It is a good plan to specialize, to breed only one variety and to try to breed that for a happy combination of Standard qualities and productive qualities in eggs and meat. If you prefer to confine your efforts to producing exhibition quality stock, by all means do so, for it affords a great deal of pleasure and interest and it can also be made to pay.

Practically all of the so-called "popular Standard breeds and varieties can be relied upon to give satisfaction in both beautiful and useful qualities, if properly bred and managed. Make your own selection, for that is the only choice that will ever satisfy you. Breed the variety that pleases you and appeals to you, and breed it to a purpose.

Don't expect too much, either when you buy or when you breed. While Standard color runs pretty fine, as a general rule, you will find that there is more or less variation in size, type and quality. You have only to visit a poultry show and look over the classes in a given variety to satisfy yourself on this point. The "blue ribbon winners" that closely approach the Standard ideal are not plentiful, are still hard to get, and still cost long prices. Uniformity is not all that could be desired, but there is improvement and advancement in most cases all along the line. Where the birds fit to win are bringing from \$50 to \$100 each, and extra good breeders—but not show birds—very nearly the same prices; you cannot expect to get a specimen that will fit full Standard ideal description for from \$3 to \$10. "It can't

Rhode Island Reds

CAESAR THE GREAT

wins again at Syracuse, defeating thirty cocks. This bird has proved a wonder in breeding, and some fine cockerels for sale from him. The best lot of S. and R. C. Reds to sell we ever owned.

Fall Winnings:

Great Forest City Fair, R. I. Reds, 5 firsts. Ohio State Fair, 5 firsts. Write us before you buy.

CARVER'S RED FARMS

Lock Box 200

Seville, Ohio



Sussex Speckled and Red

Importers from England's Best Sussex Breeder

Now on our farm, direct from England, the Great Champion International Cock King, First Crystal Palace, London, England. Grand cockerels now coming on from this bird for sale.

Fall Winnings in Sussex:

Great Forest City Fair, 4 firsts. Great Allentown Fair, 4 firsts. Ohio State Fair, 7 firsts. Write us before you buy. Mention American Poultry Journal.

A. A. CARVER, Specialty Breeder

Lock Box 200

Seville, Ohio

Myers' Barred Plymouth Rocks

"LADY BEAUTIFUL" STRAIN, PULLET LINE EXCLUSIVELY

My winnings, year after year, at the leading shows of America, where the Barred Plymouth Rock Classes are the strongest, show conclusively the quality of my line.

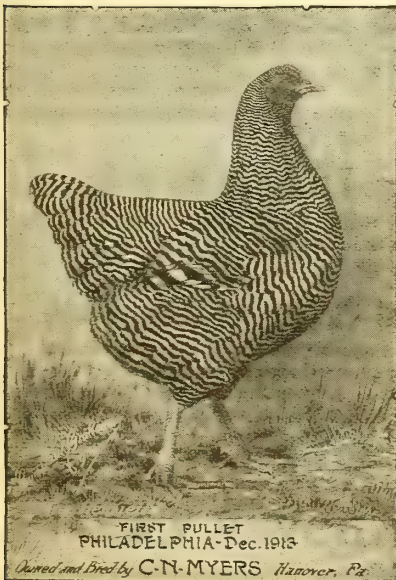
AT THE GREAT HAGERSTOWN SHOW, 1915

My winnings there for three years are history. This year my birds won: Hen, 1, 2, 3; Pullets, 1, 2; Pullet-Bred Males, 1, 2, 3, 4, 5; Championship Special Female, Etc.

C. N. MYERS - Box A - Hanover, Pa.

Winners of Five Championship Female Specials at Madison Square Garden, New York, 1914; Philadelphia, 1913-14; Hagerstown, 1914; Williamsport, 1914.

This unapproachable record stands unequalled. It was made at my last five exhibits, competing against all birds in the American Classes.



be done!" For \$10 or less, one may often get a good all-around breeding bird, but it will be deficient in some of the minor Standard requirements. You can't buy a gold dollar for a nickel.

Buy the best you can afford and rely upon the breeder to sell you stock birds properly mated to yield good results. Put it up to him and put him on honor to do this. Do not be disappointed if such a mated pen, pair or trio, fail on one side or the other to match Standard description. If they are properly mated, you will get a "mated pair" not a "matched pair." The breeder is the one to mate the birds for he knows the breeding back of them and how they may be expected to nick. You can see "show" values, but you cannot always see "breeding" values. Whatever price you pay, you should get good sound healthy vigorous stock, free from deformities and reasonably free from serious defects.

Do not expect too much from your first year's breeding and remember that good specimens, that approach closely to Standard ideals, are hard to get. If they were easy to produce and came in great numbers, the prices of such specimens would be much less and there would not be half so much pleasure in producing a "good one." There is never much interest and satisfaction in anything which comes too easy, and things easy come by are seldom lasting or worth much. There is just enough difficulty—a sufficient number of obstacles to overcome and some surprises—in the breeding of Standard-bred poultry to make it decidedly interesting and worth while.

Do not expect too much from eggs for hatching. Assuming that the experienced breeder has mated his birds to the best of his ability, there is always a chance that the mating may not nick, and that more or less of the chicks will show some evidence of a "throw back"—have characteristics of some ancestor not looked for in the mating. You simply buy the breeder's chances in those eggs and it sometimes happens that he

sells the best chicken of the season's get in the eggs. If you get one good strong chick for each two eggs set, you have no cause to complain. If you grow one or more "crackerjacks" from a single setting, you have reasons for congratulation. Don't expect too much and you will not be disappointed.

We followed up a complaint of a dissatisfied customer of one of our advertisers last season and we found that a beginner had paid \$5 for fifteen eggs, and hatched seven chicks and grew six of them. He had four pullets and two cockerels; one cockerel was only good for table purposes, but any one of the other birds was worth \$5 or more as a breeding specimen. Yet that beginner, until he was shown, was sure he had just cause for complaint. When he discovered how well he had done he was decidedly "tickled."

So buy the best you can afford. Be sure to demand sound, healthy, vigorous breeding stock. Do not expect to get too much for too little. If you think you have reason to complain take your complaint direct to the breeder from whom you bought. If you are polite and courteous, he is sure to be equally so and to try to adjust matters to your satisfaction.

Breeding Standard poultry for any special purpose, or for general purposes, is well worth while; it is pleasant, healthful, interesting work and it can be made a business with both permanency and profit. Start with good foundation stock and your future in the business is largely what you make it.

Stop the Leak!

IN NOVEMBER, while stopping over for a few hours in a big city, we visited a friend in the market who is one of the biggest buyers of live poultry in his section. We know him pretty well and he showed us a number of shipments just received from fancier-breeders whom we know and whose plants we have visited. The marketman called our attention to the birds in the crates

and said: "There is a leak that could be stopped with profit."

Of course those crates contained "fanciers' culls," but there was nothing to prevent the breeder from putting the birds in good marketable condition before shipping. They were of all ages, shapes and sizes in the same crate. It would have been easy to grade them before shipment and it would have made a difference in the price received. There are a good many grades of market poultry, but it is only the best grade that commands a good price.

The worst feature, however, was that the birds in the shipment, tho apparently healthy, were miserably thin. That was a big and expensive leak that could easily have been stopped. The marketman put those birds, graded for size, immediately into fattening crates, there to stay for a period of two to three weeks of fattening. The breeder could have done that very thing and made quite a little money by so doing. In their thin condition those birds did not bring above 10 to 12 cents per pound alive. Well fatted they would have weighed more and brought easily 17 cents per pound and possibly more alive. Money worth saving. Stop the leak!

Butter for Your Bread.

JUST to start the New Year right, altho we have had much to say on the same subject for several years, we want to talk a little more about doing and holding business.

There may have been times, in the "good old days" when the "shell game" and "bunko" flourished, that it was possible to do business with "a new sucker born every minute" and to get away with it—but that sort of thing won't work long in these enlightened days. If it works at all, the man who tries it gets a nasty fall sooner or later, and generally sooner. That often quoted rule of business: "Do to the other fellow what he would like to do to you, and do it first," is a back number and should be forgotten. It won't work.

REGALS AT BALTIMORE



FOR the past two months I have been telling you about my wonderful records at the New York State Fair and Hagerstown. This month I am privileged to tell you what some of my customers are doing.

At the Great Baltimore Show, Mr. Elwood Taylor won as follows: Cocks 1, 2, 3; Hens 1, 2, 3; Cockerels 1, 3; Pullets 1, 3, 4; Pen 1, 2. Best Display of White Wyandottes and also in American class. Another customer at Guelph, Canada's greatest show, on a small entry won 1st Cock, 2nd Hen, 5th Cockerel, 1st and 4th Pullet. Another customer won 2nd on his Cockerel at the Palace, in a class of 57 cockerels. These are only a sample of the reports I am continually receiving, many of which I am not at liberty to mention.

You Must Have the Regal Strain to Win

As layers my birds are just as famous and next month I will give Mr. M. K. Boyer's affidavit to the effect that 10 Regal pullets laid for him 1920 eggs in one year. Regal White Wyandottes stand today as the greatest known combination of beauty and utility.

3000 Cocks, Hens, Cockerels and Pullets For Sale, 3000

Special: 500 beautiful exhibition Cockerels and Pullets now ready to win the blue ribbon for you. 100 well matured Cockerels from my heavy laying Dorcas line at \$8, \$10, \$15, \$20 and \$25 each. Dorcas Pullets at \$3, \$4 and \$5 each. Breeding Pens (male and four females) at \$20, \$25, \$35 and \$50. Stay-white, vigorous utility cockerels \$3 and \$5 each.

Send one dime for the Regal Wyandotte Book, telling all about the Regal Strain. FREE—My catalogue and mating list is free if you will send me your name.

JOHN S. MARTIN

Box 51

PORT DOVER, CANADA

Modern business men are beginning to appreciate that no business has an unlimited field in which to operate. The world is getting to be a mighty small place and means of communication are far easier and widely different from conditions of a few years ago. You have to keep right on doing business with the same people or friends of the same people. The field is decidedly limited. News of how you deal with your customers travels fast and it travels far. Not only is it best to do right because it is right, but it is a wise plan to do right and it pays.

TRUTH, HONEST DEALING, COURTESY and SERVICE are recognized today as absolutely essential to the continuance of any business. Complaining customers **MUST** be satisfied. It makes no difference whether the complaint is just or not, the complaint cannot be ignored, if you are to **STAY** in business. No matter where the blame lies you must set yourself right in the mind of that dissatisfied customer as quickly as you can. If the fault was yours and his complaint just, you make a friend. Quite often it happens that the complaint is unreasonable and unjust—never mind, set it right promptly just the same. If the customer was dishonest or unreasonable with you, your courtesy and service shame him, and eventually he becomes a booster for you. Every complaining customer is an important business opportunity, it gives you a chance to make good, to make a friend, and to hold business—it often leads to new business, when you satisfy the complainant that you can be depended upon to give all customers a square deal.

Recently a big city department store started off their advertisement with the following letter in big type:

BETTER BUSINESS BUTTERS OUR BREAD.

"Standards in the conduct of business are constantly changing. Methods that were common and upheld in years gone by are no longer regarded as right and proper. The ethical standards recognized in all lines of business are being raised to higher and even higher levels.

"As the late Elbert Hubbard put it: 'There is growing up in America a religion in business. The religion is now and here. It remembers the weekday to keep it holy.'

"The Golden Rule is today a big part in business. We are doing unto others as we would like to be done by, and this for the best possible reasons—both because it is right, and because it pays."

Mr. Poultryman and Mr. General Advertiser, just read and digest that. You want "butter for your bread," we all do. You want to get new business and to hold old customers and continue to do business with them season after season. You want to succeed and to have a permanent business. The way to do it is plain and it is the right way. Get the Golden Rule into your business. Do unto others as you would like to be done by. Satisfy your customers, make friends of them, convince them that your business methods are founded on, and that they can depend upon you for **TRUTH, HONEST DEALING, COURTESY and SERVICE.**

It is good business. It means building up the business. It means success. Don't waste opportunities in 1916.

S. C. White Leghorn Breeders, Attention!

You all know what D. W. Young's White Leghorns are like. Here is your

opportunity to get Young strain blood and help boost your variety at the same time.

Dan Young is pleased with our breed article contests. He does not intend to let the procession start without having his favorites get a good position close up to the band wagon. Here is where you come in.

To the subscriber of the **AMERICAN POULTRY JOURNAL** who submits the best article on S. C. White Leghorns, how to breed them for exhibition beauty and preserve all their valuable qualities, and why they are a much to be desired variety, D. W. Young, of Monroe, N. Y., will give a splendid Young strain cockerel valued at \$50. The specimen will be of fine type, and just as good in every respect as the males he regularly furnishes to customers at that price.

The contest will be decided by the editor of **AMERICAN POULTRY JOURNAL**. All articles must be in our hands by February 1st. The winning article will appear in our March number.

Articles may contain from 800 to 1,000 words and must be written on one side of the paper only. We reserve the right to retain all articles and to publish such as we believe to be worthy of space.

Send all articles to Dr. Prince T. Woods, Lock Box 4, Silver Lake, Plymouth County, Massachusetts. Mark them "White Leghorn Contest."

Now get busy and see what you can do for the S. C. White Leghorns. Prize will be awarded and delivered in ample time for you to breed the bird this season.

Battle Royal—National Victory

a battle, which White Rock breeders, from coast to coast, have been looking for took place at the national meeting of the American White Plymouth Rock Club at the Coliseum Chicago Show. Most assuredly quality was astonishingly wonderful, but as in the past, a giant Strain crumbled before the marvelous perfection of the

Halbach Strain of White Plym. Rocks

"The Sensational Champions"

They swept all before them by taking



1st Chicago Ckl. 1914-15

1-2-3 Cock
1-2-3-5 Hen
1-2 Old Pen

Silver Cup Grand Champion Male.
Silver Cup Grand Champion Female.

More than twice as much as all other breeders put together. Truly a National Victory.

1-2-3-4-5 Pullet
2-3-4 Cockerel
1-3 Young Pen



1st Chicago Pullet. 1914-15

You should see the outstanding bargains that await your order. They are a revelation in value, in quality, in blood lines. They have sought their equals, but are far in advance. For real winners at any show in any class send your order to the undefeated champions. Make sure of winning. Get the breeding birds that will produce winners. Absolute satisfaction guaranteed. Grand Catalog, 20 cents.

H. W. HALBACH, Dept. B, R. R. No. 1 Waterford, Wisconsin

DR. WOODS' NOTES AND
COMMENTS.

HAPPY NEW YEAR!

January's here again!
With snow and sleet and thaws,
Sunshine bright, then wind and rain,
Yet, we're glad, because,
Prosperity is coming fast,
Good times for you and me.
Here's the Glad New Year at last,
May ALL most Happy be!

* * *

This is our Birthday number, AMERICAN POULTRY JOURNAL's 47th anniversary. We hope you like US as well as we like YOU. If you do, we're going to get on famously in 1916. When a poultry magazine is just forty-seven years young, we think it is a very proper time for celebration. In fact we are getting into the habit of celebrating birthdays—it appeals to us as a very excellent habit. We hope you like Volume 47, Number 1, and we are certain that all the numbers to follow are going to be as good as we know how to make them. "The proof of the pudding is in the eating," and we are entirely willing to appoint you a jury of readers and leave the verdict to you.

* * *

We hope you made a New Year's resolution to "Play the Glad Game" and that you will stick to the resolve. There are so many things to be glad about, if you only will think about it. There is nothing quite so good for the "blues" as a worth-while smile and trying to find something to feel glad about. "Just be Glad," that's the whole secret.

* * *

"Chicks raised artificially, to do well, must be raised in bright, clean quarters, fed solely on sound food, provided with plenty of fresh,

pure water; exercise both inside and outside the brooder, and receive systematic care and attention. Study your chicks; learn to know their language; watch their movements and appearance; notice how they come up for their food; look to the droppings and watch their growth."

That is good advice to follow anywhere that chickens are grown.

* * *

Poultry keeping in Gatooma, South Africa, must be some strenuous. Graham Hope, in *The South African Poultry Magazine* advises a correspondent in that section, whose poultry are pestered with fleas and ticks, as follows:

"Insect pests are the drawback of poultry farming in South Africa. I have always contended that there is more mortality in poultry due to fowl tick than all poultry diseases put together. Fleas are generally found in scratching sheds and fowl houses. To exterminate, twice a week water houses and sheds with a strong solution of Jeyes or similar disinfectant. To get the sand fleas off head and round eyes, I find carbolicised vaseline cannot be beaten. With reference to fowl tick, it is useless to go on dipping your birds; first get rid of the cause, and burn down all your infected fowl houses and build new ones on fresh ground. Before putting fowls in their new quarters dip them in a good solution of disinfectant."

It ought to be possible in that climate to do away with ordinary poultry houses and simply use open-front shelters, with petroleum oil sprayed in the poultry quarters and sprinkled on earth floors at regular periods ought to get rid of the insect pests. It works in our own Southwest.

* * *

For Thanksgiving we dressed off a number of White Plymouth Rock cockerels, seven and eight months old, that weighed from 7 to 8½ pounds each and were as plump and handsome as capons. We sold them at 25 cents a pound and

kept a couple of them for the home table in place of turkey. Really good turkeys sold in our markets at 42 cents a pound just before Thanksgiving. Yet the growers probably did not get over 20 cents a pound alive for the same birds. We found that we did not make any mistake in deciding on White Plymouth Rock cockerel as the Thanksgiving bird. Ours was tender and juicy and altogether mighty toothsome chicken.

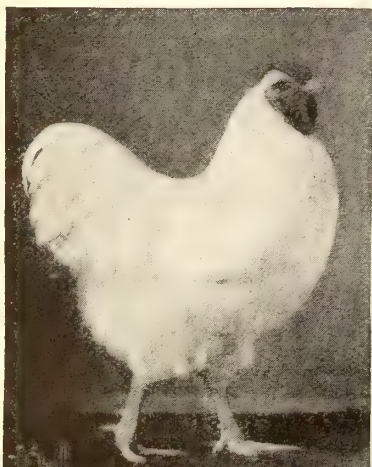
* * *

In male birds we do not, as a rule, keep the heaviest cockerels to use as breeders. Sometimes for a special reason we keep certain big heavy males, but as a rule we depend chiefly on females to get size. We like to have our young breeding males, when in good breeding condition, just about Standard weight or a little under it, and females at Standard weight or above it. We do not get them all that way, but that is what we aim for and it gives us desired results. This year we grew a nice uniform flock of White Rocks and had plenty of cockerels and pullets at seven and eight months old that were Standard weight or over. Now, while we consider our stock "utility-bred" it is, most emphatically, Standard-bred. We may not observe minor show points with much care, but we do pay a great deal of attention to breed points. A good many of the cockerels we dressed for market were quite as good in Standard points as birds we have bought at \$10 and \$15 each, yet they went for 25 cents a pound. Our requirements for birds we hold over for breeders are health, vigor, uniformity, good frame, quick growth, and good results in eggs and meat, with as much Standard beauty as we can hold on to. Everything we consider a "cull" goes to market either as dressed poultry or to be killed for table poultry. However, we do not throw out a known-to-be good breeding bird simply because of minor comb defects, off colored eyes, or a tail a bit too high, provided it sizes up well in the special qualities we insist upon.

Smith's White Leghorns

Win at the World's Fair and Chicago Coliseum, 1915! Only Eastern exhibitor of White Leghorns to get in the money at 'Frisco, November, 1915, and only breeder to win in *all* classes shown at Chicago Coliseum, December, 1915. The most consistent win of *any* exhibitor at the Coliseum. Grandest matings in the country for 1916. Catalog telling all about my Leghorns sent free. Eugene Smith, 317 Galena Blvd., Aurora, Ill.

Keeler's Vigorous Wh. Wyandottes



FASHION PLATE FOURTH
SIBED BY FASHION PLATE 3RD HEAD OF YOUNG PEN INDIANAPOLIS 1916
BRED AND OWNED BY CHAS. V. KEELER, WINAMAC, IND.

The Aristocrats of the White Wyandotte World

For 21 years my strain of White Wyandottes has been winning for me and my customers at such shows as Chicago, New York, St. Louis, New Orleans, Kansas City, Pittsburgh, Denver, etc. This is a record to be proud of and you will be getting the benefit of these 21 years of experience and breeding that are back of my birds when you purchase White Wyandottes from me. Have by far the finest and largest lot that I ever reared. Birds that will be the winners at America's best shows this fall and winter and birds that you will be proud to own.

The World's Greatest Strain

My birds not only win prizes but produce satisfactory results in filling the egg basket, laying as high as 265 eggs per year—The prize winning females are selected from among these layers.

Fine head points, wonderful size and shape, pure white, stay-white plumage, broad backs, and well spread tails combined with their wonderful laying ability, their power of reproduction and their habit of winning 1st prizes are the results of careful systematic, pedigreed line breeding. The result of my 21 years of experience I am offering to you at low prices (quality of birds and breeding considered).

2000—Birds for Sale—2000

Females, \$5.00 to \$25.00. Males, \$5.00 to \$35.00. Limited number, extra choice of the best breeding, \$50.00 each. Breeding pens \$20.00, \$25.00 and \$35.00. Show Pens \$50.00, \$75.00 and \$100.00. I have no cheap birds—nothing but the best—so please do not write for \$2.00 or \$3.00 birds.

Eggs—Eggs—Eggs—Eggs—Eggs—etc.

The pens that will produce the 1916-17 winners, mated December 15th, and after January 1st am ready to furnish you eggs from the 16 best matings of White Wyandottes in America. 1916 illustrated 64 page art catalog of America's finest White Wyandottes FREE. Send for your copy today. Eggs, \$5.00 per 15; \$9.00 per 30; \$14.00 per 50; \$25.00 per 100. Shall spare a very limited number from special matings at \$10.00 and \$15.00 per 15. State wants definitely and address.

Chas. V. Keeler, R. F. D. No. 11 Winamac, Ind.

If we were breeding to produce show specimens, which we are not, we would not overlook these defects in beauty. Where exhibition quality is the object, it is too difficult to get a specimen closely approaching the ideal to make it wise to breed birds that are lacking in these beauty points. Still we do strive to get all the beauty points we can and believe in time we shall have a very happy combination of the beautiful and the useful. Nevertheless, just because we are working for the maximum in practical or "utility" values, we do not consider that our fowls are any the less Standard-bred than those of some other breeder who is specializing along exhibition lines.

Some of our fancier friends tell us that we see health, vigor and carcass first when we look a bird over. Well, probably we do. Possibly it is a good thing too, and it might be better if more breeders were afflicted with the same failing. When all is said and the votes are counted, it is the *foundation* that counts, is it not? You cannot build anything worth while, lasting, permanent, anything that is to live and succeed, unless you have a *good foundation*. You will concede that that is true, will you not? Well then, *the carcass is the foundation of the fowl*. And furthermore, *health and constitutional vigor are the foundation of the carcass*. Once again, *the useful practical values, the "utility values" if you please, are the foundation and tap root of popularity*. Now friend breeder, you can't get away from that foundation and succeed, if you are wise you won't try to. But we do not forget, and you should not, that *beauty* also has great value, that certain *uniformity* is desirable and useful—so go to it and build all the beauty and uniformity and other desirable things you can on that *foundation*. But get a good, solid, substantial foundation first.

Ideals are very necessary and well worth striving for. Theories are very interesting, entertaining and exciting and often very useful. Facts are often dull, commonplace and anything but flattering. Facts count, and sooner or later, whether you have the desire—or the ability—to face facts, you are certain to find facts facing you. Evade and side step as you will, theorize all you please, you can't get away from facts. So, before you let your guesses

run away with you, first be sure of your facts. There is one fact that has been handed down to us from earliest times and that fact is that *a good solid, substantial foundation is absolutely essential to stability*. You cannot get away from it, and if you desire to succeed—as you should—you don't want to try to get away from it.

God and Nature are universal. Science, medicine and surgery know no national bounds, but are international. Knowledge is for all who will strive for it. Life holds faith and hope eternal. Healing is a gift that knows no state lines, no creed, no color line. Music is everywhere and for everybody. Human Nature is pretty much the same in white, black, yellow and brown races. The faith and serene belief of a little group of Christians in the dark ages, who preached and practiced "turning the other cheek" has survived, lived and thrived when all else seems to have been shattered. Nationalism, "national patriotism," competitive preparedness for war, has precipitated the greatest calamity the world has ever known—almost suicide of the great White Race and Christian Nations. Why should State and National Boundaries be necessary? Commerce is for all men, not for a single group. The world, life, love, and living, were meant for all mankind. Isn't it about time to live and think as an International World Unit, instead of small groups, cliques, states or nations? Can real, red-blooded men ask for anything greater or better than a Federation of All Humanity? Is there any greater patriotic ambition than to be a Citizen of the World? The whole world is in travail, what will be the issue? These are things that everyone is thinking about. Try to think right.

Abe Martin says: "Some folks have a way o' doin' nothin' that kin hardly be distinguished from work."

How about it? Does that comment fit you?

When you are "inspired" to show up the other fellow as a "crook," "pirate," or something else not nice, why not think a bit and decide first whether you have made similar "mistakes" and done similar things that you ought to be ashamed of? In these days of big machine guns, it doesn't look wise to do

too much shooting from behind a glass trench. No, we do not mean anyone in particular. The same boots will fit a good many feet.

JUDGE NOT."

Human Nature is a wondrous thing,
We view it every day
And poets all its praises sing
To cheer them on their way.

The man may be a sinner,
Or, mayhap, may be a saint,
Perhaps he is a "winner"
And then, perhaps he ain't.

It makes no difference who he be
Or behind what mask he hide,
If you have eyes that really see
You can find the man inside.

The egotist may have a heart,
The wise man may be weak,
The fool may often play a part
Of wisdom and not speak.

Be he sinner, saint, or villian bold
Just give him another look,
Beneath the dross there sure is gold
If you read the Human book.

In everyone there's something good,
There's worth in every mind;
Let it be fully understood
We all are Humankind,

And Human Nature always will
Be the same in every place,
So long as men and women still
Are members of the Race.

—P. T. W.

In *American Fancier* is a letter from Poultry Judge D. Lincoln Orr, in which he says in part:

"After I fill my present engagements as judge, I am going to give up judging. After careful consideration and serious thought I find it is impossible for me to live up to the law and do what I think is right. I feel as a loyal member of the A. F. A. the law should be upheld. I have not the heart to throw out what I know is the best bird in the class on account of mere trifles, but the law says, 'thou shalt.' It is not a question of what exhibitors do to their birds, as we all know the law is broken by them, but they expect judges to live up to the law. I have judged birds that were priceless as breeders, birds that were marvels, but when judged by the rules as laid down by the A. P. A. must be thrown out, and this I won't, really cannot, do; so there is no alternative for me but to give up judging and this I am going to do."

That is a pretty severe arraignment of the Standard, by a poultry judge who is conceded to know, as he says, "what constitutes a first-class breeder and show bird." But just how much does the Standard concern itself anyway with birds that are "priceless as breeders?" While we appreciate Mr. Orr's position and are pleased to note that he has the courage of his convictions, we believe

William Cook & Sons Originators of all the Orpingtons

Box A SCOTCH PLAINS NEW JERSEY

EVENTUALLY if wanting the Best Orpingtons, any variety, you will send to their **Originators**. Why not now, and avoid loss and disappointment? Our guarantee of satisfaction is backed by a reputation of 42 year's standing; this means something to you.

Lower prices and better quality than anyone else. How do we do it? By breeding thousands of birds from the best in the world, and having made the Orpingtons, we **KNOW** how to mate for the best results. This knowledge *saves you money*. Advice free.

We have won over fifteen thousand first prizes. Our birds are recognized as the finest layers in the world.

Send for our new 1916 Illustrated Catalog with history of the Orpingtons and hints on poultry keeping.

Cook's Roup and Worm powder and Laying and Condition powder, at \$1 a box are recognized as the best. Eggs for hatching ready now.



WILLIAM COOK & SONS
ORIGINATORS OF ALL THE ORPINGTONS
SCOTCH PLAINS, N. J.

he understood when he began judging that the Standard describes a fashionable ideal show specimen, and lays down the law for such, rather than for birds that are "priceless as breeders." We sympathize with you "Link," but if you let down the bars to include breeding birds in a competition for closest approach to the ideal of Standard perfection, where is it going to land you? We dislike, as much as anybody, to see good breeding birds disqualified for defects that no breeder would consider of sufficient importance to keep such birds out of the breeding pens; but just where are you going to draw the line? If we ever get a real exhibition Standard that sticks close to Nature's laws—instead of chasing after a fashionable ideal, with new whimsies every few years—the work will have to be done in a very different manner than it has been done in the past. There will have to be a lot of real work, scientific study and actual knowledge put into it. It won't do to try to make a composite picture of the ideals of a few leading breeders, and a lot of others who never bred the variety under consideration. It isn't so very long since that old print cribbed from Ludlow was abandoned as the diagram for nomenclature. Have a little patience "Link," personally we would like to see you stick to judging and "hew to the line"—the breeding line—tho the ribbons fall where they may.

* * *

The special "Dairy Show Number of Poultry (England) was just as big and interesting as if there was no war. The editor quotes the British Department of Agriculture as follows:

"In normal times there is scope for a great development of the poultry industry among farmers in this country, but at present the opportunities are much greater. Moreover, in the national interests there is urgent need for increasing the food supply by producing more eggs and poultry for home consumption and for export to Great Britain.

"English imports of eggs and poultry from foreign countries have been greatly restricted owing to the war, with the result that prices have already advanced, and will probably advance still further as the shortage becomes more pronounced.

"Irish farmers, without risk of loss, can do much towards increasing the national food supply by keeping larger flocks of poultry and by adopting better methods of management; and they are most strongly urged:—

"1. To retain as many pullets as possible this Autumn for egg production during the Winter and Spring months; and

"2. To rear chickens next season.

"It may be said that, owing to the higher cost of feeding stuffs, poultry-keeping is no longer profitable. This is not the case, as the price of eggs has risen more in proportion than the cost of feeding stuffs, and there is every indication that eggs will remain dear as long as the war continues.

"The following figures, which have been prepared from carefully kept records at the Munster Institute, Cork, regarding the relative profits from egg production in the two years 1913-14 and 1914-15 should be convincing.

"Number of hens to which the figures refer—300.

"Average cost of food per head per week (October to June)—

1913-14.....	1½d.
1914-15.....	1¾d.

"Average price per dozen received for eggs—

1913-14.....	1s. 1¾d.
1914-15.....	1s. 4¾d.

"Average cost of food to produce one dozen eggs—

1913-14.....	5¾d.
1914-15.....	*6¾d.

"Profit per dozen over cost of food—

1913-14.....	8d.
1914-15.....	10d.

"In this case all the foods were purchased, and in small quantities at a time, whereas on most farms the bulk of the poultry food should be home-grown, and the cost of feeding should be less than the figures given above."

* * *

Editorial advices from South Africa, New Zealand and Australia indicate that the export egg trade is on the mend and altogether, they seem decidedly optimistic concerning the outlook for the poultry business for 1916.

* * *

From the way things were developing in November and early December, we look for a decided improvement in business conditions. There is every indication of increased interest in Standard-bred poultry. The classes in the poultry shows have been large and of fine quality. Our correspondence during November was heavier than it has been for any one month in five years and generally a poultry editor's query mail is heavier in the Spring months. There is every indication that the poultry business in the United States and Canada is going to enjoy prosperity during the coming busy months of 1916. Get your share of it. Work for it. Be cheerful and optimistic and put plenty of "push and ambish," into your work. Don't sit down and wait for the good times by the family fireside. Keep yourself and your birds before the public. Get out and hustle for business. Don't forget that "it pays to advertise!"

* * *

One thing that impressed us while visiting poultry plants this last Fall season and that was the very considerable attention that breeders are now paying to health and vigor. They know

LATHAM'S BEAUTY AND UTILITY STRAIN Barred Rocks WIN

AT PALACE SHOW, Dec., 1915, the largest poultry show ever held in New York City, eleven out of twelve birds shown were prize winners, eight of them being blue ribbon birds, winning 1st prize pullet-bred cock, 1st and 2nd prize pullet-bred cockerels, 1st prize (Sweepstakes Champion) and 2nd prize hens, 5th prize pullet, 1st prize pullet-mated pen.

Previous Winnings of this strain at other great shows of America with other noted strains competing is 300 prizes which include 37 first prizes and 14 Sweepstakes Champion prizes.

Beauty and Utility Strain Leads Them All

FOR SALE Strong hearty breeding males of down-to-date requirements for the production of exhibition females. Pairs, trios and pens correctly mated for breeding high class exhibition females.

Eggs for Hatching, \$10 per Sitting

The best blood and breeding in Barred Plymouth Rocks is in the Beauty and Utility Strain. Buy of the originator and owner,

C. H. LATHAM

Box A

LANCASTER, MASS.



2nd Prize Pullet Bred Cockerel, Palace Show, 1915

A. C. WILLIAMS Ravenna, Ohio

BREEDER OF

Speckled Sussex and Buff Orpingtons

At the NATIONAL MEETING of the SUSSEX CLUB OF AMERICA, CHICAGO, DECEMBER, 1915,

We Won on SPECKLED SUSSEX

First cock, fourth cockerel, second old pen, first and fourth hens, fifth pullet, fourth young pen.

We have added to our flock the first pullet at Madison Square Garden, February, 1915.

At the NATIONAL MEETING of the BUFF ORPINGTON CLUB at Chicago, December, 1915,

WE WON

Eleven prizes on fifteen entries.

Cocks, Cockerels, Hens and Pullets for sale at reasonable prices. Eggs for hatching in season.

Catalog on application.



First Prize Speckled Sussex Hen
Chicago, December, 1915

that to be successful and continue successful they must *breed for health*. It is a subject that we have been deeply interested in and one we have preached pretty persistently about for a good many years. It has been a great pleasure to us to see and handle so many fine Standard-bred specimens that gave such satisfactory evidence of good health and sound constitutional vigor. We wish that the poultry judges at our shows would look more keenly for health points when making the awards. While to have a bird become sick at or on the way to a show is a great misfortune, it is a still greater misfortune—for everybody—to have a sick specimen come into the ribbons. A judge who cannot smell roup or who won't take the trouble to use his thumb to find a chronic nasal discharge, ought not to have any hand in placing the ribbons. Fortunately, at most big shows the management hustles any sick specimens into the basement for quarantine as quickly as possible. Much more care might be exercised, by those who furnish cooping equipment, to have the show coops properly cleansed and disinfected both before and after every show. Too many fine specimens have become sick thru exposure to the trying temperatures and drafts of the show room and cooping in contaminated coops. This matter was called to the attention of the A. P. A. in a written report presented at the 1914 convention and treating of the "Control of the Distribution of Poultry Diseases." Was anything ever done about it?

* * *

It is time now to get the breeding pens mated up. Only a short while before the eggs will be needed for hatching. Be sure to use only sound healthy, vigorous breeding birds of both sexes. Make sure that such defects as the birds possess are not the same in males and females of the same mating. Give the birds good care. Gather the eggs often and use eggs for hatching from your best breeding stock only. It costs no

Silver Wyandottes

"There is Money in Silvers"

I WILL SELL EGGS \$3.00 for 15
\$5.00 for 30

I have a splendid lot of big, open laced birds—splendid layers. Also can spare a few high class show birds. Correspondence invited.

HENRY STEINMESCH ST. LOUIS, MO.

White Wyandottes

We are now booking orders for eggs and chicks for 1916 delivery. Eggs from all pens, including our Philadelphia winners, \$2.00 per 15; \$5 per 50 and \$8 per 100. Chicks from all pens, including our Philadelphia winners, \$2.50 per 12; \$5 per 25; \$9 per 50 and \$18 per 100. Catalogues Free.

CARR BROS. CELTIC POULTRY FARM

Box R, Vineland, N. J.

HATCH 'EM ELECTRICALLY



Our ESCO electric incubators produce more, better and stronger chicks than other machines because their electric heat is uniform and does not consume the life giving oxygen in the air, either inside or outside the egg chamber. Our automatic electric regulators maintain a temperature which does not vary more than

one-half a degree from normal for days or weeks without the slightest attention from the operator. Your incubating troubles are over if you use an ESCO electric—no danger, no soot, no oil lamps to clean or fill. Our catalog gives complete information. Send for it.

Let us quote on your mammoth requirements.

Electric Specialty Co., 117 3rd Ave., Salt Lake City, Utah

HARTMAN'S BUFF ORPINGTONS

Winners wherever shown. Wonderful win again this year at the great Quincy Show. Winning Grand Champion pen of the show over all varieties (with over 600 birds on exhibition). Young and old stock for sale. Every bird guaranteed and sold on approval. Eggs in season. Write today.

MRS. JOE HARTMAN

Quincy Road

LORAIN, ILL.

Andrews' Black Orpingtons

Winners at Brooklyn and the Grand Central Palace, New York. I can furnish you with birds that win. Order eggs for hatching early; only a limited amount for sale. Prices reasonable.

SILAS H. ANDREWS

MINEOLA, NEW YORK

KELLER'S WYANDOTTES, Silver and Golden Laced Whites and Blacks

I have line bred them for 32 years; one of the oldest strains in America, and have won more premiums at Madison Square Garden, Chicago, Cincinnati, Cleveland, Columbus; and the three World's Fairs than any other five breeders. They have won for me several thousands of premiums during the past 30 years. The KELLER Strain is known the world over; they have the oval narrow lacing, size, shape and color that puts the KELLER stamp on every bird. We have hundreds of the finest show birds and high-class stock birds, as well as utility stock at reasonable prices; heavy layers. Some rare bargains this month. Rare, narrow laced Golden Sebrights. Large illustrated circular.

IRA C. KELLER, Brookside Stock Farms, Box 75, Prospect, Ohio.

Black Langshans

First Prize Winners at Madison Square Garden, New York and Chicago Coliseum. A few choice show birds for sale. Also high class breeding stock and utility cockerels. It will pay you to get my strain. Satisfaction always.

M. S. BARKER

::

R. F. D. 1

::

THORNTOWN, INDIANA

Tompkins' Rhode Island Reds

BOTH COMBS

Get in line for your winter show birds and breeders. 1000 head; better than usual at right and lowest prices. Satisfaction guaranteed. Mention A. P. J.

HAROLD TOMPKINS

Box A

CONCORD, MASS.

Eggs for Hatching

Anchorage Farm Stock

Bred-to-Lay

Bred-to-Pay

Breeding pens now mated with large-sized, healthy, mature breeding birds. All open-air housed. Certain to yield strong, sturdy chicks. Hatch early pullets for sure profits.

S. C. White Leghorns

Good large, sound, clean WHITE birds. Heavy layers of large white eggs. Certain to please you and sure to fill the egg basket.

White Plymouth Rocks

Big, healthy, vigorous birds of the LAY AND PAY kind. Big producers of fine brown eggs. Far better than most utility stock. New Jersey customer won two firsts and one special with three entries at a local show with birds hatched from Anchorage eggs.

HATCHING EGGS From Either of Above Varieties,
\$2.00 per fifteen \$5.00 per fifty \$9.00 per hundred

White Faverolles

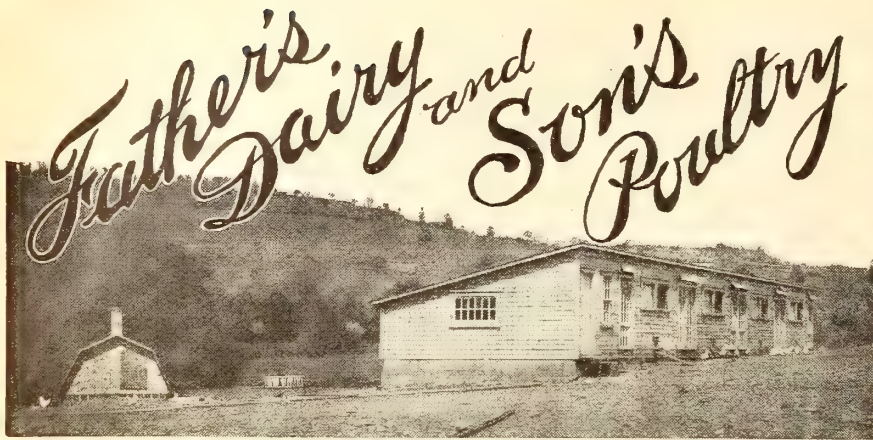
Strong, healthy, vigorous and well bred. Only a limited number of settings to be sold. Price of eggs, \$5.00 per fifteen; \$10.00 per thirty.

Book orders NOW to make sure of early Spring delivery. Deposit of one-half purchase price required to secure booking place, and balance one week prior to date of desired shipment.

THE ANCHORAGE FARM

Lock Box 4

SILVER LAKE, PLYMOUTH CO., MASS.



Incubator Cellar and Laying House with 3 to 4-Acre Run on a New York State Farm.

500 Hens and His Candee Incubator Give Same Profits as 35 Cows on 160 Acres

"I am still at this time tied to the dairy end of farm work as a helper, but run 500 hens every year and a 2400-egg capacity Candee Incubator.

"I have run the 500 hens since the spring of 1911 and my wife and I next June have decided to make a break away from the dairy business and run poultry exclusively, as our profits from our poultry plant have equalled my father's profits from his 35 cows and the 160-acre farm every year. My 500 layers and pullets on range every year only require 3 to 4 acres at their liberty."

J. H. McClelland, Hobart, N. Y., Nov. 2, 1915.

Mr. McClelland, a Cornell graduate, not only improved his poultry by proper incubation but he has built up a custom hatching and Baby Chick business without much, if any expense.

Candees are unchanged in principle from the first Candee and every size is a proved success.

CANDEE

INCUBATORS, BROODING SYSTEMS and COLONY BROODER

STUDY THESE FIVE FEATURES

- (1) **Exact Even Temperature All the Time.** The only large incubator with automatic thermostat regulation in each egg chamber.
- (2) **Economy of Labor and Attention.** Burns a few cents' worth of coal daily; heat regulation is entirely automatic; egg trays are not raised or lowered.
- (3) **Sectional Construction and Operation.** Each 300-egg compartment is operated independently of every other compartment. Each section has its own automatic heat regulator.
- (4) **Increasing Capacity Without Loss on Investment.** You can add more sections, without affecting the original sections. Larger heater exchanged free.
- (5) **Inexperienced Persons Can Install and Operate.** Comes all-built, no big heating pipes to run through the machine. Any handy man can set it up. Experience of present users proves that no previous knowledge of incubation is necessary. Candee Service supplies all information necessary.

Even Hot Water Heat is Healthful Heat.

Add to Your Cash Income

Start with a Candee 1200 at your home, without interfering with your present position. It requires no more attention than you would give a small pen of birds in your back yard.

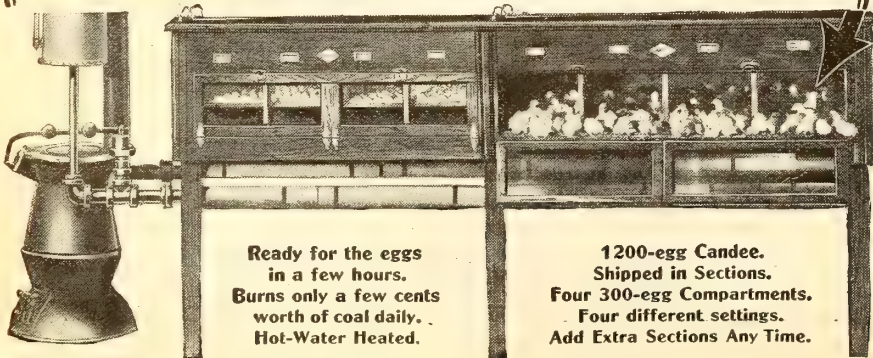
Or, start your son in business, as he can operate his Candee after school hours, earn a good income and build the foundation for success as he grows into manhood.

Big Illustrated Catalog Free

It explains Candee double heat control, sectional construction, the advantages of coal-burning heater and hot-water heat. Tells what others have done with the Candee, and gives experiences and shows pictures of plants of different operators in all parts of the country. Most wonderful Incubator Catalog published. Anyone who wants to make a success of poultry should have it.

WRITE TODAY FOR YOUR COPY

CANDEE INCUBATOR & BROODER CO. Dept. 2 EASTWOOD, NEW YORK
(Licensed by W. A. Schleit Mfg. Co., Inc.)



Ready for the eggs
in a few hours.
Burns only a few cents
worth of coal daily.
Hot-Water Heated.

1200-egg Candee.
Shipped in Sections.
Four 300-egg Compartments.
Four different settings.
Add Extra Sections Any Time.

more to grow chicks from the best stock than it does those from poorer stock; in the long run—results considered—it costs less to grow good ones.

* * *

Eggs intended for hatching should be gathered often enough to prevent their being chilled in the nests. Do not keep eggs for hatching in a warm room. Put them in a clean, cool, dry place where the temperature of the room does not go below 40 degrees or above 60 degrees F. Some folks turn eggs while keeping them for hatching. We believe that better results are obtained when the eggs are let alone and handled as little as possible. We simply put the eggs in a box or basket, place them in much the same position as they are found in the nest, and then do not disturb them until they are wanted for hatching.

* * *

Get the incubators in order, warm them up and see that they are operating properly and that the regulation is right. When getting the incubators into shape, test out a few eggs from each pen, by incubating them to make sure that fertility is all right. Don't sell hatching eggs from a mating until you know it is producing eggs that are fertile and that will hatch all right at home. If you haven't a small incubator, generally you can find a few broody hens that will run your test hatches thru for you. You can run a lot of eggs for a couple of weeks in a good incubator and then hatch the fertile ones under hens. It saves the hens' time and you don't need as many broodies.

* * *

Get the first regular full hatches started by the latter part of this month if you possibly can. February and early March chicks bring pullets that lay and pay in the Fall and cockerels that will sell for prime roosters when the market is paying from 22 to 28 cents per pound live weight. You may not get many prize winners from the early hatches but you will get a lot of prime large, husky, vigorous breeders.

* * *

If you have trouble getting fertile eggs from those loose-feathered, round-bodied Wyandottes and from full-feathered Asiatics—first make sure that the breeding birds are not overfat, then pull main tail feathers and part of fluff above and below vent on females and the fluff below the vent on males. If the birds are healthy and vigorous you can look for improvement in fertility after following this plan.

* * *

Bear in mind that all breeding fowls should be fully matured. They must have their full growth if you are to get best results. For early hatching eggs, yearling and two-year-old hens mated to husky, vigorous adult males give best results. We had just as soon have a cockerel or a cock for breeding, provided the bird is fully matured when mated. Pullets that are matured sufficiently to be Standard weight or above it and that are in full lay, will generally give good hatchable eggs. Don't try to breed immature stock, it is a waste of time.

* * *

Every male bird cannot be depended upon to properly serve the same number of females. Some males will give results with 20 to 30 females—these are exceptionally husky and vigorous ones—

others do best with from four to a dozen females and some will not give any satisfaction at all unless mated to but one or two females. Every laying hen cannot be trusted to produce fertile eggs, even tho well mated. Some are naturally sterile. The quickest way to weed out sterile hens is by use of a good trap nest.

* * *

To get best results this breeding season observe and study your fowls. Don't waste their energy or your own. Keep and breed only the result getters. If you have skill and experience you may be able to get along without trap nesting, but you will not get very far unless you study your fowls and learn which ones are giving you the best returns in eggs and good chicks.

* * *

Do not expect every egg from a special mating to turn out a "crackerjack" chick. It will not. Where special breeding and mating has been intelligently carried to the maximum degree of efficiency, the proportion of good chicks from a mating will be large, but don't expect too much.

* * *

Get your orders for hatching eggs and day-old chicks booked early this season. The demand is going to be large and if you want to get yours at a certain time, you want to get your order in as soon as possible.

Winners in Langshan Article Contest.

We offer our sincere congratulations to the breeders of the noble, lordly Black Langshan. The Langshan article contest was a great success, so many articles were received that our copy reader had to "go some" to get the awards made in time for this JOURNAL.

Articles were received from New Hampshire, Vermont, Massachusetts, Rhode Island, Maryland, Virginia, North Carolina, Ohio, Indiana and Colorado.

Our congratulations also are extended to Herb E. Sharp, Spokane, Wash., originator of the "pullet-producing strain," who so generously offered the two prizes and made the contest possible. Mr. Sharp says that the Hen No. 62, given as first prize, has a record of 22 chickens hatched from 28 of her eggs, 18 of which were pullets and 4 cockerels. If she fails to produce 75% females from all of her eggs, set as laid, he will replace her with another hen that has never yet produced a cockerel. He states that the \$25 sitting, given as second prize, should yield chickens that will produce not less than 70% females in their progeny. He is certain that he has hit upon the solution of sex control in poultry. The winners in this contest are to be congratulated on their unusual opportunity to test Mr. Sharp's pullet producers. Later on Mr. Sharp is to tell our readers more about breeding to control sex.

The \$100 hen is won by J. F. Robinson, South Weymouth, Mass., an instructor in accounting and an experienced Langshan breeder. His first prize article, which is full of human interest, will be found in this issue.

The \$25 sitting is won by Frank D. Hackett, an attorney, of North Wilkesboro, North Carolina, and a poultry breeder with 20-years experience. His second prize article, notable for merit, brevity and driving home its point, is published in this number.

We envy the winners in this contest their opportunity to test the merits of



Candee Colony Brooders at work in colony houses on the poultry plant of H. B. Grove, West Park, Ohio.

Prevents Crowding

"One look at my hearty chicks is enough to prove the superiority of the Candee Colony Brooder. It is surely the only Brooder on the market, as I have two other makes and am in a position to know.

"The Candee acts like an old hen—the chicks can run in and get warm, and then run out where the air is just what they like for exercising. It puts the heat where they need it—not all over the building.

"My Leghorn chicks under the Candee Colony Brooder weigh 1½ lbs. at 6 weeks. If I counted my time and everything, I would be money ahead if I threw out the other stoves and replaced them with Candees.

"With the Candee, there is no need to chase the chicks out of the corners, as they never crowd."

H. B. Grove, West Park, Ohio, June 1, 1915.

CANDEE

COLONY BROODER

The Candee principle of giving the chicks a warm hover, with long attached curtain, to go to when they need the heat and a room not so warm for exercising, is right and natural.

This insures raising the largest possible number of chicks to strong, heavy maturity, as Mr. Grove and thousands of other Candee users testify.

The bigness of the Candee Heater, with its larger fire pot and 12-inch grate, insures a lasting fire and heat for the babies in zero weather.

Its automatic regulator, with only one bearing, is simple in construction and operation, easy to adjust and quick in its action, maintaining the correct temperature all the time, no matter how suddenly the weather changes.

The coal magazine; guaranteed lasting all-wool curtain; high, flat, big-all-around hover for plenty of pure air; movable section of hover for getting at the heater and Money-Back Guarantee are more features of the Candee Colony Brooder that make it preferred by all critical poultry-raisers.

Big Illustrated 1916 Catalog Free

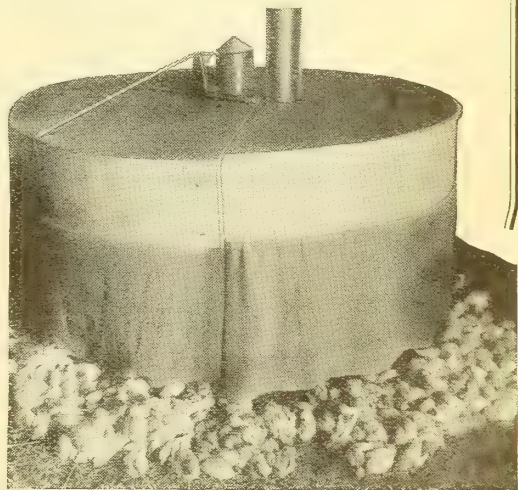
Write today for your copy of the special Candee Colony Brooder catalog, with its many illustrations of the equipment and poultry plants of its users, and get more proof that the Candee is your one best investment.

CANDEE INCUBATOR & BROODER CO.

Department 2

EASTWOOD - NEW YORK

Licensed by W. A. Schleit Mfg. Co., Inc.



HOUSTONIA POULTRY FARM

RED AND LIGHT

SUSSEX



WINNERS AT CHICAGO COLISEUM, DECEMBER, 1915.
4 cups as color and display specials; 9 firsts, 7 seconds and 1 fourth.
Book your egg order early, and be sure of getting them, in so doing.

Houston & Hofius, Dept. A. South Charleston, Ohio

FOREST HILL POULTRY YARDS

Quality White Plymouth Rocks

Have just won at the Kentucky and Ohio State Shows more premiums than the fourteen competitors combined, including A. P. A. medal for best cockerel in American class, at Dayton in the best class of White P. Rocks ever shown in the Middle West they won 1st and 5th cock, 1st hen, 1st cockerel, 2nd and 5th pullets, 2nd and 5th pens, 10 entries; also best display, best bird in the class. This places our Quality White P. Rocks at the top in this section of the country. We still have cocks, cockerels, hens and pullets, mated pens of this same stock for sale at prices that you can afford to pay. We can satisfy you. Try us and see. EGGS—Fertile Eggs, 100% guaranteed, that is what you will get. Book your order now. Mating list free. Address

ALBERT G. SPAHR

Box 1240

XENIA, OHIO

CUT CLOVER

GRASS GREEN

BEST WINTER GREEN FEED

Breeders, Day-old Birds, Hatching eggs, Wyandottes, Rox, Reds, Leghorns, Pekin and I. R. Dux and White Guineas. Poultry Supplies, Brooder Stoves at half price. Circular free.

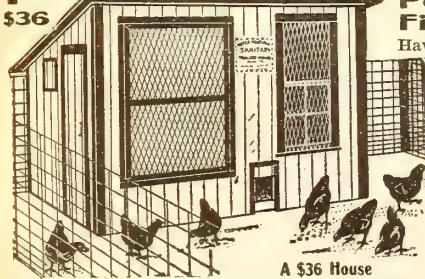
W. R. Curtiss Co. Box C Ransomville, N. Y.



DON'T KILL or sell your laying hens

Use the Potter System and pick out the layers from the loafers and diseased hens. Keep only healthy laying hens. The Potter System is a secret and the greatest discovery of the century in the poultry world on the subject of Egg Producing Hens. Used by over 50,000 satisfied poultry keepers, who are saving dollars every year. Our new 100-page Potter System book, "Don't Kill the Laying Hen," contains the secret and knowledge about laying and non-laying hens. It's a revelation to poultry keepers, and you will learn how you can use the Potter System on your flock, keep less hens, get more eggs, and make more money using it. Write today, sending two red stamps to cover postage on our large catalog and circular telling all about Potter Poultry Products made for Particular Poultry People. If you are particular and want to make more money on your flock, you will write us today.

DON'T BUILD You can buy better, cheaper, more complete ready (factory) made hen-houses, roosting and nesting fixtures, coops, etc., from Potter & Co., because they buy lumber in carloads, cut and fit all parts perfectly by automatic machinery and deliver the house, coop or fixture you need in convenient sections all ready to set up.



A \$36 House

No. 5, Style "D" Potter portable open front fresh air, scratch shed house, equipped with No. 17, Style "A" 5-ft. 3-perch complete henhouse outfit for 30 hens. Price of complete house, \$36.00. Painted 2 coats.

Send for Our Big Catalog

Contains 132 pages and over 150 illustrations showing Potter portable houses, coops, henhouse outfits, feed hoppers, brooders, hovers, feeds, etc.—in fact everything the poultry keeper needs to insure the greatest success. Catalog mailed for two red stamps to cover postage. Write for it today and save money.

T. F. POTTER & CO., Box E-21, Downers Grove, Illinois, U.S.A.

Potter Poultry Houses and Fixtures— Portable, Sanitary, Inexpensive

Have been on the market for over ten years and are used and recommended by thousands of poultry keepers who want the best and buy the best in poultry houses and equipment. You start right when you buy a Potter portable with complete outfit of roosts, drop board and nests. A clean, sanitary house means healthy hens and lots of eggs. The fresh air sanitary house shown here is only one of the twenty styles of houses and coops we make ranging in price from \$3.50 up and everything we make is absolutely guaranteed.



A \$6.60 Henhouse Outfit

No. 19, Style "A", 6-ft. 3-perch complete Potter henhouse outfit for 36 hens. This same style made in 12 sizes.

this "pullet producing strain"; we should like to try them out ourselves, for we believe Mr. Sharp is sincere and very much in earnest. It is an experiment in breeding that is well worth while. If he has accomplished all that he believes he has and his birds make good his claims, then we shall have to take our hats off to Herb E. Sharp as a "Bur-bank in the poultry business." Messrs. Winners, do not fail to let us have your reports after full and fair trial.

Our Regular Monthly Prize Articles.

Owing to the fact that this January issue is going to be crowded and that we have about all the work we can well handle, our regular monthly prize articles will not be published until the February issue. In that number and regularly thereafter the monthly prize articles will appear.

Announcement was made in December editorial on page 1436. We have a nice lot of articles, received since December 1st and these will be read and the prizes awarded before our February number goes to press. Prize articles intended for use in our March issue should reach us not later than January 15th. You may write on any poultry subject. Length of articles should not be less than 1,000 words nor more than 2,000 words. Write on one side of paper only. Best article each month will win a prize of \$3 and second best a prize of \$2. We reserve the right to retain all articles submitted and to publish such as we deem worthy of space. Send all articles, plainly marked, to CONTEST EDITOR, AMERICAN POULTRY JOURNAL, Lock Box 4, Silver Lake, Plymouth County, Mass.

Kate Sanborn, author of "An Abandoned Farm," says, "Down with Senator Ingall's 'one opportunity.' To the eager mind and willing hand there is a new opportunity at every turn. There is always the opportunity to try again and be successful."

NATIONAL Gets Big Hatches

Peter Kilpatrick, Nazereth, Pa., writes "Have made better hatches than anywhere." Strongest, most durable Incubator made. Hot water heat—double wall—dead air space— asbestos lining—self regulator—metal cover. Will not warp or shrink. Money cannot buy a better Incubator.



40 DAYS TRIAL

12 Years Guarantee

165 Egg Incubator & Brooder

Both \$10

Freight Paid East of Rockies

Why pay more? A bigger, better, simpler machine at no increase in price. A proven cold weather hatcher. Built on U. S. Gov't. specifications. Write today sure for Free Catalog, or order direct from this ad and save time. You take no risk. Satisfaction guaranteed or money refunded. Comes set up ready to run, with egg tester and book of instructions. Don't delay. Get the facts at once.

NATIONAL INCUBATOR CO. Racine, Wis.

Box 13,

THE AMERICAN POULTRY ASSOCIATION MEETING.

By HARRY H. COLLIER.

THE AMERICAN POULTRY JOURNAL was the first poultry paper to reach the reader with a report of the American Poultry Association. This report was necessarily abridged, for the reason that San Francisco is a long ways from Chicago and the American gets to press in time to have its paper in the hands of its readers on the first of each month. Some December issues will carry reports of the American Poultry Association, but you will find that these papers did not reach you until along in the middle of the month.

I tried to give the essential things that were passed at the convention, but on reading my story I find that I left out some very important matters.

Grant M. Curtis offered a resolution, that was passed, reducing the Market Poultry and Egg Standard committee to three, with Robt. H. Essex, Hamilton, Ontario, Canada, chairman, and he to appoint two others. The publishing committee for the Market Standard to consist of President Richards and Mr. Essex, and two others to be selected by them. These committees to report for final action to the 1916 convention.

The Show Rule committee recommended that when a party makes charges that he must accompany the same with an affidavit, and if charges are not sustained that he lose his forfeit and then the American Poultry Association must investigate the man making charges against another member or judge. If a man is forced to make

affidavit to charges, the committee felt that he would hesitate unless he felt sure of his ground.

The Finance Committee reported that it would take \$24,137.50 to pay expenses for the ensuing year. This report was adopted.

Mr. Curtis offered a resolution to the effect that outsiders be allowed to make charges against members. These charges to receive the same attention as those made by members.

The Harrison-Pennick matter came before the convention on several occasions and, like "Banquos' Ghost," it was hard to keep down. The first report coming before the convention recommended that Mr. Harrison return to Mr. Pennick two hundred of the original claim of \$400. Mr. Curtis made a motion that the findings be returned to the committee and that the committee admit all letters and evidence in the case other than those that came from Mr. Harrison and Mr. Pennick. This admitted evidence in the shape of letters from Judge Burton and others, but the committee came back and returned the same verdict. The wording of the verdict did not satisfy Mr. Curtis and Mr. Pennick, and it was afterwards changed, but the findings in the matter were not changed one cent.

L. C. Byce offered a resolution, that was passed, that a committee be appointed to draw up some suitable plan of installing officers.

A resolution was offered by J. D. Veach, of Montana, thanking the California committee, Lyman C. Byce and Mrs. Byce, H. C. Scrutton, H. W. Krckerberg and others, who had assisted in making the convention a success. A

vote of thanks was offered and passed, thanking Vice-President A. A. Peters for his fair and impartial rulings in the convention.

Nominations for election of commissioner being in order, O. L. McCord was nominated and unanimously re-elected to that position.

D. McClaskey, Topeka, Kansas, offered the following resolution:

WHEREAS, The present system of granting judges licenses is unsatisfactory to a great majority of the judges and to officers and members of this association, be it

RESOLVED, That the Standing Revision Committee be made an examining board with full power to examine all applicants and to recommend the granting of licenses or the rejection of applications as said board may deem best to the interests of this association, the poultry fraternity and the applicants themselves; be it further

RESOLVED, That each member of the Examining Board is vested with the power to appoint at each American Poultry Association State show and any other important show, two licensed judges who have officiated at not less than three shows held under the American Poultry Association show rules during each year of the years previous to such appointment, to conduct an examination of any applicant for license who may appear before them; the judge so appointed to conduct the examination by the score card method of judging and to report in together with recommendations to the Examining Board for such action as said board may see fit to take in the interests of all parties concerned; the judges conduct-

Parkside Strain White Leghorns The Bred Line-Bred S. C. Winners

EGGS From First Prize \$5 Per Chicago Winners Fifteen

CHICKS From First Prize \$10 Per Chicago Winners Doz.

At the Greater Chicago Show, 1915

WE WON

Eight First, Second, Third, Fourth and Fifth prizes on fourteen entries in strong competition.

I HAVE won twice as many first prizes at Chicago in the last 8 years as my competitors and can furnish you **Exhibition Stock**, in either **Young or Old Stock**, in **Singles, Pairs, Trios or Pens**, for any show.

I also have a limited amount of **Cockerels and Pullets** to spare from trap-nested pens with high **Egg Records**. Write me your wants. All stock shipped on approval. My catalogue is free. Address

The Parkside Poultry Farm
N. P. EASLING, Proprietor
Box 40 PEKIN, ILLINOIS



First Pen Cockerel, Chicago, 1915
Unretouched Photo

Gridley, Ill., Jan. 9, 1915.

Dear Sir:—From eggs I bought of you I raised the 1st, 2nd and 3rd old, and 1st and 2nd pen at Bloomington, Ill. show. Also entered one old at Mt. Pleasant and won 1st and sweetestakes. At Champaign I entered a old, and won 1st and champion male.—W. H. Settle.

Lancaster, Ohio, Dec. 28, 1914.

Dear Sir:—I won 2nd and 5th on cockerels at the Ohio State Show on birds hatched from the eggs I got from you, and will want more eggs again next Spring.—Fred Stuck.

Peoria, Ill., Dec. 7, 1914.

Dear Sir:—From the setting of eggs I purchased from you last Spring I raised two choice cockerels, either one of which is worth double the price of the eggs. I showed one at the Peoria show and won 2nd prize on him.—Rud Eberhardt.

Franklin, Tenn., Jan. 5, 1915.

Dear Sir:—I got 11 chicks from the 15 eggs I purchased from you last Spring and consider this very good for the distance the eggs had to come. I think a whole lot of the birds I raised and wouldn't care to part with them.—Jesse J. Reams.

Bay City, Mich., Nov. 12, 1914.

Dear Sir:—Of eggs received from you I hatched some of the finest birds ever seen. I raised two cockerels in particular which I would not part with for less than \$50 each. One has the same type of your first Chicago cockerel 1914, and his color is nearly perfect.—E. J. Reena.

Moose Jaw, Sask., Can., Aug. 12, 1914.

Dear Sir:—Think it is about time I wrote and thanked you for the way you treated me. From the setting of eggs I hatched 12 fine chicks. Have one cockerel raised from these chicks that I consider the best bird I have ever seen and I would not take \$50 for him.—Thomas Gibbs.

Anderson, Ind., Nov. 9, 1914.

Dear Sir:—Hatched 11 chicks from the \$5.00 setting of eggs I bought of you. In September I entered 4 pullets of this lot at the Indiana State Fair, and got 1st and 2nd prize. This is sure going some. \$150.00 would not buy the birds we raised from this setting.—Parker S. Short.

Why Pay More?

Why Pay More?

A TESTIMONIAL AND A WINNER IN EVERY EGG

S. C. W. Orpingtons and S. C. W. Leghorns

A very fine lot of cockerels for sale, \$1.50 to \$5.00. Send for description and photos. 1 GUARANTEE SATISFACTION. - BENNETT'S POULTRY FARM, R. F. D. No. 7, ANDERSON, IND.

MINORCAS, Giant Strain

S. C. Black have again proven their superiority by winning at the Cleveland, O. Fair, 4 firsts, 2 seconds, 1 fourth and champion ribbon. At Indiana State Fair, September, 1915, 4 firsts, 3 seconds, 1 third; in a class of 62. Write your wants. JOHN L. BROWN, 1515 W. Seventh St., ANDERSON, INDIANA

SINGLE COMB WHITE LEGHORNS

BABY CHICKS from selected layers only \$14.00 per 100. Hatching eggs \$7.00 per 100.

JOSEPH STENZ & SON

FOND DU LAC, WISCONSIN

DEER'S QUALITY

White Plymouth Rocks

They proved to be great winners at Louisville, Ky. They won for the best display in American class; also for the best display in the White Rock, and seven other specials. They won 4 Cock, 1-5 hen, 2-4 Cockerels, 2-3 Pullets, 3 old pen, 1 young pen. Write for a mating list.

F. L. DEER

Rural Route 1

FRANKLIN, IND.

Gassmann's White Orpingtons

WINNERS ILLINOIS STATE FAIR, 1915

Young and old stock for sale. Write today.

HENRY GASSMANN

502 South Fair Street

OLNEY, ILLINOIS

Cole's Buff Plymouth Rocks

The strain of quality. Won best display at Chicago Coliseum Show, Dec. 1913, 1914, in competition with the best birds in the west. 300 breeders and show birds for sale, bred from these winners. State what you want, as I can furnish them at the right price.

FRANK C. COLE

VAN WERT, OHIO

S. C. White Leghorns--Show Birds--Choice Breeders

Pullets and Ckls. sired by 1st Prize Ckl., Kansas City, Mo., Jan., 1915

Yearling hens extra high class. Our birds are white, have long backs and low tails.

Guarantee Stock to Please You

or you may return them and your money will be refunded, less express one way.

MILLER POULTRY FARM, Box T, Lancaster, Missouri

ENGLAND'S BEST BLUES

I breed Blue Orpingtons, Blue Wyandottes and Blue Plymouth Rocks and have won highest honors at the English shows—including Crystal Palace, etc., etc. Birds exported from my yards have produced winners at Madison Square, etc., etc. Can ship Trios, capable of scoring in show pen for \$75. Breeding Trios, \$45. Eggs, 50 for \$10. Order now. Address:

Tom H. Furness, Carlton House

Chesterfield, England

SCHWAB'S NONPAREIL BARRED PLYMOUTH ROCKS

Lined-Bred Since 1883; Winners at America's Leading Shows Since 1885

We now offer the best quality Barred Rocks ever bred in old or young and in any number. A special inducement for you to try "Nonpareils" is this offer of male and five females, correctly mated to give best possible results, for \$22.50. Try a pen and start right and be forever satisfied. Exhibition cockerels and pullets to win any show. Write your wants and let us guarantee to satisfy you.

Schwab Bros., Box 451, Irondequoit, N. Y.

ing such examinations are each to receive the regular per diem of the Standard Revision Committee members while engaged in conducting examination, said sum to be paid by the American Poultry Association; be it further

RESOLVED, That any additional necessary expenses incurred by the Standard Revision Committee while sitting as an examining board on the granting of judges' licenses, together with the regular per diem allowed the members of said committee, be met by the American Poultry Association; that in order to assist in paying said expenses the application fee for judges' licenses be twenty-five (\$25.00) dollars; be it further

RESOLVED, That it is the intention to make it convenient for applicants to be examined, by providing that each member of the examining board has power to arrange for the examining of any applicant; and, further, any applicant is to have the privilege of appearing before the board at its annual meeting for examination, in which event no other examination is necessary.

"This resolution affecting the constitution of the American Poultry Association, the Secretary is to make the required announcement as provided by the constitution and laws of the Association."

Respectfully submitted,

G. D. MCCLASKEY,

Chairman

J. D. VEACH

C. J. CARTER

V. O. HOBBS

GRANT M. CURTIS.

A resolution introduced by Grant M. Curtis for Harry H. Collier, "That there should be a more general use of the score card in poultry shows." This was unanimously adopted.

The Executive Committee elected U. R. Fishel, treasurer.

The new Revision Committee consists of Grant M. Curtis, E. E. Richards, Arthur C. Smith, W. S. Russell and Professor W. R. Grahams.

Nashville, Tennessee, New Orleans, Louisiana, Cincinnati, Cleveland, Ohio, sent in letters inviting the American Poultry Association to meet in those cities in 1916. F. C. Stier made a strong plea for Cleveland.



Latest Book Profitable Poultry. Finest pictures and beautiful color plates. 20 pretty instructions how to breed, hatch, feed by improved methods, describes our busy Poultry Farm with 53 pure-bred varieties, including Runner Ducks. Lowest price list on fowls, eggs, incubators, sprouters, etc. This great 50c book mailed for only 5 cents. Berry's Poultry Farm, Box 115, Clarinda, Iowa

LEE'S LICE KILLER AND GERMOZONE

are essentials to success with poultry. The former is simply sprayed or painted on roosts and kills all insects there as well as lice on the

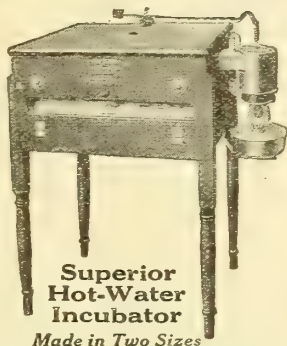
bodies of the chickens roosting over it, scaly leg mites, etc. No handling, dusting, dipping or greasing. Germozone is given in the drinking water. It purifies the water and vessels. It prevents contagion from one to the others. It counteracts musty or spoiled food. It prevents and relieves bowel trouble. It is a ready remedy for roup, colds, swelled head, canker or skin disease. Conveniently obtainable at most every city or town.

Also ask for free Poultry Book and name of your nearest dealer

GEO. H. LEE CO., 302 Lee Bldg., Omaha, Neb.

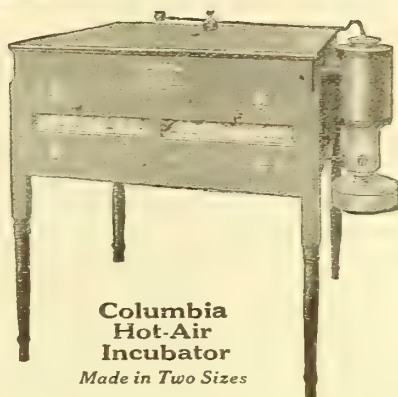
Cyphers Co's Incubators

3 Styles-8 Sizes-\$12 To \$40



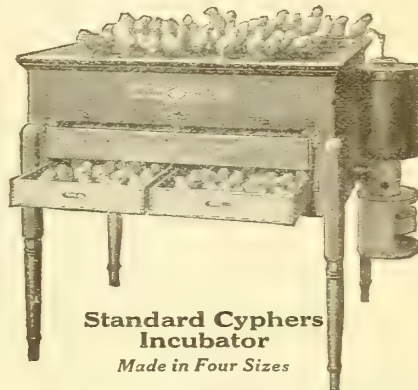
**Superior
Hot-Water
Incubator**
Made in Two Sizes

A Self-Regulating, Self-Ventilating, Hot-Water Hatcher that has no equal
Prices: 65 Eggs, \$12.00; 130 Eggs, \$16.00



**Columbia
Hot-Air
Incubator**
Made in Two Sizes

Best incubator on the market at the price
Guaranteed to give satisfaction
Prices: 140 Eggs, \$16.00; 250 Eggs, \$22.00



**Standard Cyphers
Incubator**
Made in Four Sizes

Has no equal for hatching. The best incubator we know how to build. Guaranteed to you personally
Prices: 70 Eggs, \$15.00; 144 Eggs, \$23.00; 244 Eggs, \$34.00; 390 Eggs, \$40.00

Start Your Hatches Early

EARLY-hatched chicks are worth more than late ones. Whether you wish to sell day-old chicks, raise broilers or roasters, or produce eggs, your **profits** for the year are going to depend largely on getting your chicks out early in the season—early enough to get into market ahead of your competitors—early enough for the pullets to develop and begin laying in the fall and lay steadily through the winter—when prices are highest and profits largest.

You Can Depend on Cyphers-Built Incubators

They are indispensable for early hatching. No matter how early you start, *you can rely on Cyphers-Built Incubators.* Are equipped to furnish ample heat in the coldest weather. They are Self-Regulating, Self-Ventilating, Non-Moisture—in fact, are practically **AUTOMATIC**; and they hatch the maximum number of chicks from the eggs set—*strong, sturdy, healthy chicks that live and grow.*

Take No Chances

with inferior equipment. Cyphers-built incubators are standard hatches the world over. Whatever style of incubator you prefer—whether hot-air or hot-water heated—there is a Cyphers-built machine in a size to suit your needs. Our facilities are unequalled. Cyphers Incubators are backed by 20 years' experience and every machine is *guaranteed to give satisfaction—guaranteed to you personally.*

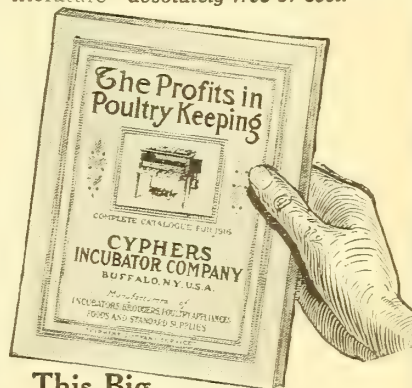
Mammoth Incubators

Cyphers Semi-Mammoths for 1,200 to 1,600 eggs, and Cyphers Mammoths for 4,000 eggs and up, are built in sections on the same principle and with the same high-grade materials that made the Standard Cyphers famous. Illustrated Circular, free.

"Cyphers Company Service"

Whatever your poultry problems may be, our "Service Department" will give you the advice or information

you need, in a *personal letter*—free of cost to you. *Don't hesitate to write us.* If you do not now have our Library of Free Booklets and Bulletins, covering all the difficult subjects of poultry work, write and learn how you can get this practical, up-to-date poultry literature—*absolutely free of cost.*



This Big 1916 Year-Book Free

This valuable book is full of practical information to all poultry keepers. Contains description and prices of our complete line of Incubators, Brooders, Foods, Laboratory Products and Poultry Supplies. Describes "Cyphers Service," including our Complete Library of Books and Bulletins, and tells how you can get them *without cost.*

Write today for YOUR Free Copy of this big, complete, illustrated Guide for Poultry Raisers. 172 pages, 7½x10 inches. *Not a dull page in it.*

All prices herewith apply east of Rocky Mountains, north of Texas and south of the Canadian line. In these high freight territories prices are slightly higher.

CYPHERS INCUBATOR CO., Dept. 30 Home Office and Factory: **Buffalo, N.Y.**

BRANCH STORES AND WAREHOUSES:
New York, N.Y. 41 Barclay Street Boston, Mass. 12-14 Canal St. Chicago, Ill. 1421 W. 37th St. Kansas City, Mo. 19th and Campbell Sts. Dallas, Tex. 316 N. Preston St. Oakland, Cal. 2127 Broadway



Cyphers Balanced-Ration Poultry Foods

A Complete Line of Special-Purpose Poultry Foods, composed of nothing but pure, sweet, wholesome grains. Contain no grit, shell, dirt or waste matter of any sort. No better poultry foods obtainable—cheaper than you could prepare the same mixtures at home. Are properly milled, uniformly mixed by machinery and sold under the *guarantee of satisfaction* that goes with all Cyphers Company Products. Thousands of poultry keepers depend entirely on Cyphers Poultry Foods—*would not try to keep fowls without them.* Write for current prices and for our valuable 32-page book, "Poultry Foods and Feeding"—*free on request.*

WHY KEEP ORPINGTONS?

By PERCY A. COOK, Scotch Plains, N. J.

THIS question is often asked by persons who are contemplating keeping chickens for the first time, and also by persons keeping birds, but looking for a breed better than they are handling. Now it is natural each one boosts the particular breed that they are keeping, usually to the detriment of the others, and in my case it is still more feasible that I should boost the Orpingtons, as my father was the originator of all of them. But my little boost would not make them as popular as they are today. Merit is the key to Orpington popularity. Now why should you keep Orpingtons? The reasons are legion, and I will mention a few. First of all to a beginner or to one that is already in the poultry business supplying eggs and birds for breeding purposes, the Orpington appeals strongly because of their selling value. It is a recognized fact

that the average Orpington costs more than other breeds of the same quality, and that the highest grade Orpington brings a higher price than the same grade in other breeds. It takes less cost in advertising to sell an Orpington. One must remember that there are too few Orpingtons and breeders in this country to supply the demand for them, and that the demand for good birds is larger than the supply. They are handsome and graceful in appearance. Are very tame, four foot wire is usually high enough to keep them in. It adds much to one's pleasure in raising and caring for birds that are docile, and one does not have to take a shotgun along to catch one. There is a tremendous demand for the Orpington among the wealthy, owning country estates, because they can have a good looking bird with absolutely the finest utility qualities.

Now to the persons keeping birds solely for utility purposes. This is where the Orpington steps in the front rank more than ever. I predicted eleven

years ago that before many years there would be more Orpingtons exhibited at the large shows than other breeds. The prediction came true after five years, and I now predict that the Orpington in a few years will supersede the Leghorn on the large egg and broiler farms. In every case where these farms have tried the Orpingtons that have retained them and disposed of their former birds, and it is only because the owners of such plants are not aware of the all-around qualities of the Orpington that they are not using them now.

Ever since I have been over here, over eleven years, I have been working on strains of Orpingtons that will be used on these large egg plants, and I have been more than successful. Several years ago I had orders for several thousand layers for these large plants, but was not then in a position to supply them with the right birds and the right prices. I have numerous laying records of pens and individuals. One White Orpington pullet starting laying at five

Fishel's Wh. Wyandottes Conquer the World

At the Panama-Pacific World's Fair

Twenty-five per cent of all prizes offered on White Wyandottes were won by one strain alone

**The
World's Best**



Fishel, on a White Wyandotte is the sterling mark of White Wyandotte quality. The genuine Fishels cost no more than others.

IS THIS NOT CONVINCING PROOF

Considered with the fact that for years they have been out-classing all rivals wherever shown, that Fishel's blood lines are right? Fishel's World's Best Strain is the product of a lifetime devoted to the perfecting of this most beautiful and profitable of all breeds of poultry.

THE WHITE WYANDOTTES

Our stock is all grown on free range, where every individual bird has room to roam over large fields and pick up nature's food, thus insuring a vigor never found in birds reared in enclosed pens. We grow these beautiful and profitable fowls by the thousand and devote our entire time to this work. We can supply you every want, be it an individual show specimen to fill your weak place or an entire show string, or a breeding pen, and our prices are very reasonable, quality and established blood lines considered.

3500 Birds for Sale, 3500. Eggs for Hatching and Baby Chicks.

Our winners at the World's Fair, as well as the winners at the Indiana, Kentucky, and Illinois State Fair, together with the great St. Louis Fair, will make up our breeding yards this season. Send for illustrated catalog, a book full of valuable information gained from thirty-four years of actual experience in the fancy poultry business.

J. C. FISHEL & SON

Box J

HOPE, INDIANA

months and one day old, and laid from that day to twelve months 208 eggs; the next year she laid 191, the next year, her third laying season, she laid 198, and the fourth year 157 eggs. In another case a hen laid 140 eggs in her seventh year. Many utility breeders only keep their layers one season, and sometimes two years, a really good layer is good for three at least. I have a Buff Orpington that laid 201 eggs the third year. Then the Orpington when well raised will lay at five months old and often before. Some may say, "What do you call well raised?" My way of well raising is feeding first thing in the morning a hot wet mash, comprised of Quaker oats, stale bread, corn meal, bran and middlings, this is mixed with the gravy from boiled beef scrap, or better still, with meat and bones boiled and the scraps of meat mixed in with the gravy. Then a feed about two hours afterwards of hulled oats. I forgot to mention a little salt is put into the mash, and once a month Epsom salts are mixed in the water that the mash is mixed with, then every bird gets an equal proportion. Then about two to three hours afterwards some good mixed grain feed like Chicgrain.

Chicks are fed about every three hours. Cracked wheat is fed and cracked corn for some meals. Am very keen on hulled oats for chicks. Fresh lawn grass is fed every day and when this is not available the tops of sprouted oats, but never more than three cuttings from the same roots as they get too tough. Drinking water should be kept out of the sun and shade provided for the chicks.

I mention our way of feeding in case any of our readers cannot get their birds too lay as early as they should. If you keep Orpingtons and they are not inbred and are from a good laying strain they will average their first eggs at five months old, which is two months younger than most other breeds begin. This year the chicks from my special laying strains I spoke of before that I had been creating, started to lay at four months and one day old and averaged laying at four months and a half old, and have laid all thru this Fall and early Winter when eggs were so scarce. This saving over two months in the matter of getting eggs is a very valuable one to a utility plant, it simply means two months or more of clear profit. For broilers they are ideal—two and a half pounds at two months old and often more, another saving of three weeks or more, roasters at six months old weighing from seven to eight and a half pounds at 25 to 30 cents a pound is a good paying proposition, and anyone who ever tastes an Orpington wants nothing else, as the meat is fine grained, tender and juicy. They are the favorite fowl of the epicure, and at many high-class restaurants "Orpington" is used to designate a special kind of fowl that is served at an extra price. They make good mothers, and are immune to climatic changes. An Arctic or equatorial climate makes no difference to them. They lay in the Fall and Winter when eggs are scarce and worth double the price of Summer eggs.

The Orpingtons have become popular on their own merits, and the fact that twelve years ago they were almost unknown over here, and that today they are leaders, prove they have merits, much more than anything I might say about them. I make a special point of having my show birds good layers. In

fact, they have to have usefulness as well as good looks, otherwise I have not any use for them, by adhering to this for a number of years I know that all my birds will make a good record. It would be impossible to find a more hardy bird, but stay away from inbreeding. I have five separate strains of my own in each variety to mate across for fresh blood. Mortality in rearing is 2 per cent per year with us, and should not be more than that with anyone else with good stock birds. Which Orpington shall I chose is the question asked after deciding to keep

Orpingtons. I always recommend the person to take their favorite color.

S. C. ANCONAS

THE SURE-WIN STRAIN

At Coliseum Show, Chicago, in 1913 and 1914, they won 7 firsts, 2 seconds, 2 thirds and a 4th on 13 entries. At State Fair, Milwaukee, Wis., 1915, they won 1st and 2nd cockerel; 1st, 3rd and 4th pullet; 1st and 4th hen, and 2nd cock on 9 entries.

Excellent show birds and breeding stock for sale. Satisfaction guaranteed.

Cora B. Garbutt, Box 146, Darien, Wis.

"Peerless-66" is the Most Remarkable Hatcher in the World. —H. M. SHEER

Over 50 Improvements for 1916

FRIENDS, whether you are buying your first machine or figuring on an addition to your equipment—or replacing of old machines, the one hatcher in the world for you is the 1916 Peerless-66. It is pre-eminently the incubator for everybody.

For 1916 I have introduced over 50 improvements. And that, mind you, in a hatcher that had already set a world's record for results. Now, the 1916 Peerless-66, delivered to your home for \$6.60, stands absolutely as the only practical, all-metal, fireproof, everlasting machine produced. It is the only machine of its size with a perfect heating and heat distributing system. It is the only incubator ever produced alike adapted to the largest poultry raiser and beginner as well. Tens of thousands of users have

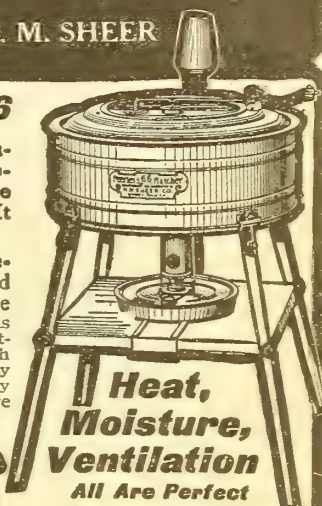
Proven Peerless Principles Perfect

They have proven that this hatcher, all metal, round like a nest, built on the famous Sheer Unit System, is just the right size to give the greatest efficiency. It is the right size to give the greatest economy. It will last for years. They have proven this by the profits this hatcher has put in their pockets. That's why J. H. of Georgia, reports:

97% Hatches

That's why Mrs. J. D. of Mo. reports 51 chicks from 53 eggs. That's why L. M. F. of Ill. says his poorest hatch was 46 chicks out of 50 eggs, and his best 50 chicks out of 51 eggs, this last record with the new Peerless-66. There are thousands more. Let me send you the names of users to convince you that the Peerless-66 is right in price, results and satisfaction.

\$6.60
East of Rockies
DELIVERED



Heat, Moisture, Ventilation

All Are Perfect

all working together as a self-regulating unit. The machine is equipped throughout with the famous Sheer Fixtures. The wonderful Sheer Water Thermostat Regulator automatically controls heat, regulates moisture and ventilation. Overheating is impossible. The heating plant is a marvel. Simple, positive, unailing.

Guaranteed

We give the broadest and most liberal honest guarantee ever given on a hatcher. Guaranteed to hatch every hatchable egg.

Hot Air or Hot Water

We supply the PEERLESS-66 with either hot air or hot water heat, as you wish, for 1916 at the same price. Never before has such an offer as this been made. We recommend the hot air however, as absolutely efficient as any hot water machine.

No Freight to Pay The Marvelous Price of the Peerless-66 for 1916 is \$6.60. Delivered anywhere East of the Rocky Mountains. Pacific Coast price, \$7.00, delivered.

Send for Book and Record of Results which tells facts about the Peerless-66 which we have not space for here. Send for it today—free—or better yet, send us your order now.

Peerless Brooders

are as wonderful as Peerless incubators in efficiency, in economy and in rearing strong chicks. Round like the hatcher, 66-chick capacity, all-metal. Simple heating

system, hot water run through coils at top, insures even heat all through brooder all the time; heat regulator outside, instantly accessible, cannot overheat, injury to chicks impossible. A more efficient or economical brooder is impossible. Send for additional facts.

H. M. Sheer Co., 165 Hampshire St., Quincy, Ill.
30 Years Making Better Hatchers.
Globe Grain & Milling Co., Pacific Coast Dist., Los Angeles, Cal.



Glass Top, Visible Egg Chamber — Automatic Heat Control — Moisture and Ventilation Automatic — Sheer Automatic Large Capacity Lamp

Actual Capacity, 70 Average Hen Eggs

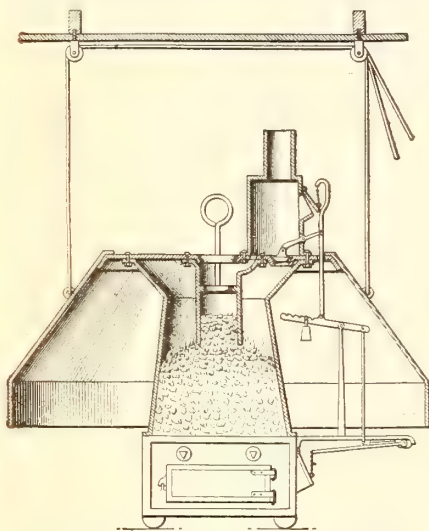


Saves lives of chicks

Recent Inventions for Poultrymen

By Lester L. Sargent, Patent Attorney, Washington, D.C.

A brooder adapted to safely mother a large number of baby chicks invented by Clement V. Hill, Trenton, N. J., employs a coal stove with a specially devised smoke discharge flue into which the escaping gas is directly conducted. It prevents the killing of any chicks in the brooder thru the escape of coal gas, which has been one of the principal ob-



Brooder, patented November 23, 1915, by Clement V. Hill, Trenton, N. J. No. 1,161,672.

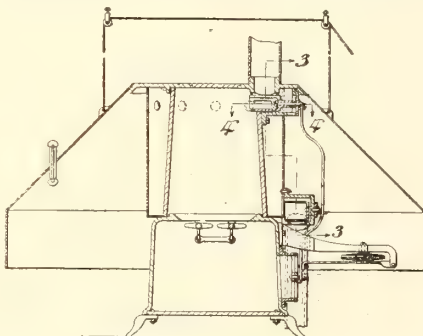
jections to the use of the stove for brooders. Patent No. 1,161,672.

A colony brooder constructed by John F. MacKay, Bordentown, N. J., successfully cares for a big number of chicks. A novel feature of the device is the rotary damper by which the temperature is regulated. The brooder consists of a heater, a surrounding hood, a smoke flue damper in the form of a slotted sleeve, a check draft damper, a lower

rotary damper and a rod that connects these two dampers and operates them in unison. The rod is, of course, controlled by a suitable thermostat. The check draft damper is a rotary disk attached to and operated with the smoke flue damper. Patent No. 1,161,495.

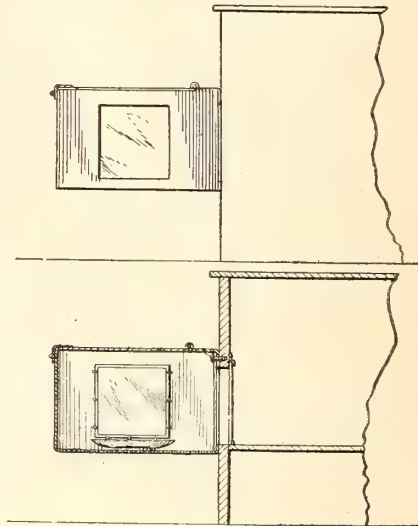
John E. Rohan, Racine, Wis., has invented an adjustable thermometer holder for incubators which holds the thermometer in an elevated position where it can be readily seen. Patent No. 1,162,653.

A drinking attachment for brooders has been invented by Clarence W. Smith,



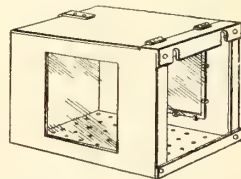
A Colony Brooder, patented November 23, 1915, by John F. MacKay, Bordentown, N. J. No. 1,161,495.

Rome, Me. Its main object is to place the water tray in that position where the chicks cannot scratch litter into it. Patent No. 1,159,540.



A drinking attachment for brooders, patented November 9, 1915, by C. W. Smith, Rome, Me. No. 1,159,540.

A hen's nest, the joint invention of Alexander Bradley and Frederick E. Elliot, Merritton, Ontario, Canada, has been acquired by the Paradise Brooder Company, a New York Corporation. The nest is of the trap variety for seg-



S. C. WH. LEGHORNS

We Are Still Undeclared

AT THE WORLD'S FAIR
PANAMA-PACIFIC INTERNATIONAL EXPOSITION, 1915

WE WON EVERY FIRST PRIZE ALL SPECIALS



Undeclared Champion S.C. White Leghorns
BRED, OWNED & EXHIBITED BY
Mrs. E. B. Martin Downey, Calif.

1st, 2nd, 4th and 7th Cocks; 1st, 2nd, 3rd and 4th Cockerels; 1st, 2nd and 4th Hens; 1st and 3rd Pullets; 1st and 3rd Pens. Champion male and Champion female. On 26 Birds entered, twenty-three won prizes. —Judge: Irving F. Rice of New York.

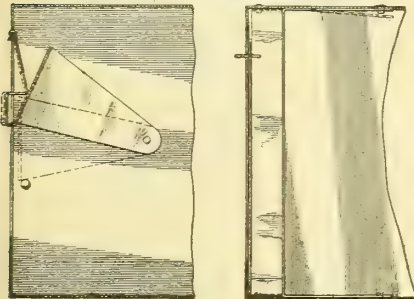
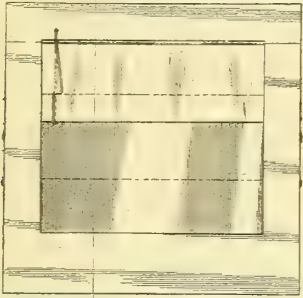
We bred every Bird exhibited. Our Birds have been line-bred for over twenty-two years. Are trap nested for high Egg production. Our Specialty — Exhibition, Breeding and Foundation Stock. Eggs for Hatching in season. Stock shipped East, West, North or South, without effecting health or vigor. Eggs shipped safely any distance. Write for mating list.

RANCHO DEL MARTINOS

MRS. E. B. MARTIN - DOWNEY, CALIFORNIA

regating layers from non-layers. It also has means for applying a marker to a hen at a point between the entrance door and the exit door, so as to readily distinguish the productive biddy. It is unique in having a compartment that traps a given number of eggs and then by the action of a cam attached to the egg compartment, tilts a lever that causes the entrance door to the nest to close and automatically lock. The poultryman is thus notified that his search for eggs will not be a disappointing one. Patent No. 1,160,250.

Aaron B. Moe, Chicago, Ill., has patented a new poultry trap nest, the rights in which have been assigned to Otis & Moe Manufacturing Company, of



Trap Nest, patented November 30, 1915, by Aaron B. Moe, Chicago, Ill. No. 1,162,381.

Chicago. It is distinguished mainly by the simplicity of its mechanical construction. A U-shaped guard or door to the nest is normally supported in open position by a depending latch of peculiar shape. The trap or U-shaped door is sprung into closed position by the hen brushing against it as she enters the nest. It does not automatically reset. Patent No. 1,162,381.

An automatic hen-marker, invented by Robert M. Wining, Cartersville, Ill., has a valve controlled container for

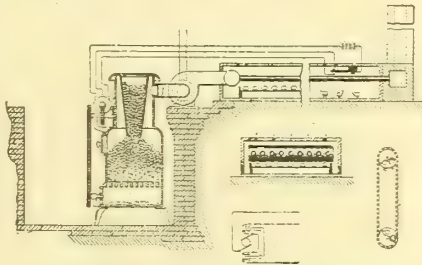
paint, dye, or ink to mark the hen as she enters the nest. A tilting floor is provided on the bottom of the nest and this floor is operatively connected by a rod with the valve, to cause the few drops of marking fluid required to drop upon the back of the hen after she has laid and is leaving the nest. Patent No. 1,161,569.

Frank W. Schroeder, Bemidji, Minn., has invented a new egg-tester, into which a tray of eggs may be placed, and an electric light switched on automatically by the insertion of the egg tray, and the freshness of the entire dozen determined at a glance thru the sight opening in the hood. Patent No. 1,161,793.

Collapsible poultry coops are the subjects of recent patents. That devised by John C. Bledsoe, Cleburne, Kas. (No. 1,161,108), has sides of wire netting. That devised by Robert A. Vivins, Danville, Va. (No. 1,162,971), has sides made of runs or rods but does not use any wire netting. Both can be collapsed into compact form when they are to be returned in an empty condition to the shipper.

An incubator of the hot-air type devised by Sylvanus S. Van Keuren, Aberdeen, S. D., has the heating pipe, which is of U-shape, disposed between two incubating chambers so as to heat both. Patent No. 1,160,793.

A "Poultry Producing Apparatus," devised by Clyde J. Coleman, 203 W. 170th St., New York City, employs an electric motor controlled by a three wire circuit in which is included a thermostat. The motor operates a blower for forcing a mixture of heated air and fresh cold air thru the heating pipes extending around the incubating chamber. The invention is designed for incubation on a large scale. It can also be used as a brooder. Patent No. 1,158,447.



Poultry Producing Apparatus, patented November 2, 1915, by Clyde J. Coleman, 203 W. 170th St., New York City. No. 1,158,447.

A broad mechanical patent has just been granted the Otis & Moe Manufacturing Company, 1111 Washington Blvd., Chicago, on their Star Jar Fountain, thus protecting them on manufacturing this most original and useful little de-



vice. It is stamped out of one piece of non-rusting metal, therefore has no parts to become unsoldered, and renders leaking impossible. It measures 6½ inches in extreme diameter and weights only 3 ounces. The manufacturers claim it to be the most simple, practicable and durable mason jar fountain on the market. It can be used for feed as well as water.

Hatch Chicks The Modern Way

Hatch 'em by electricity

This energizing force enables you to hatch chicks with but a fraction of the labor and risk involved in operating other machines.



The control of heat, moisture and ventilation is absolutely dependable. No guessing, no watching, no filling of lamps and trimming of wicks. The operation is perfect and insures a strong, vigorous chick from every hatchable egg.

Lo-Glo Electric Incubators

Make the hatching of chicks a real pleasure. These perfect machines are all metal, fire-proof, odorless, sweet and sanitary. Handsomely finished and may be operated in any room, store or office. Many users place them in the parlor or dining room. They're simple, practical and efficient. Sizes from 50 to 400 eggs.

Successful, no worry, hatching insured by doing it electrically. Fully explained in our booklet.

Lo-Glo Hovers successfully carry on the splendid development of chicks started in the right way by our incubators. Sizes 50 chicks and up. Write for free booklet J.

Lo-Glo Electric Incubator Co., Inc.

76 Greenwich Street - New York, U.S.A.

Carver wins First Young, Third Old Red Sussex Pens, Chicago Coliseum. See ad page 53

Bronze Turkeys

AMERICA'S PROVEN CHAMPIONS

The best breeding stock and greatest prize winners always for sale, Eggs in season. Send stamp for catalog of Rocks or Turkeys, showing our wonderful prize records, prices, etc. State your exact wants.

BIRD BROS. - Box C - MEYERSDALE, PA.

Partridge Rocks

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BRED-TO-LAY

Barred Plymouth Rocks

Acknowledge No Superiors as Layers

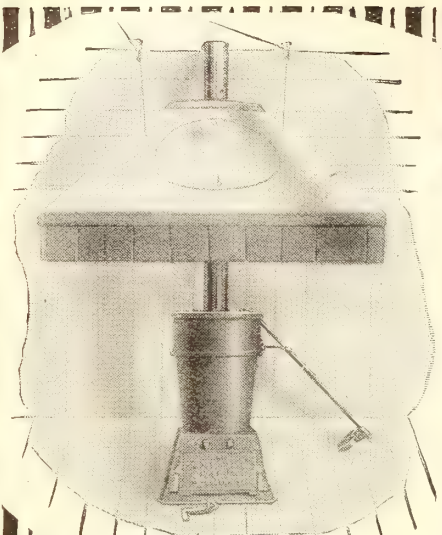
FULLY 45 PER CENT OF ALL 1914 HATCH PULLETS ON HAND DECEMBER 3, 1915, AVERAGED SO FAR, 201 EGGS EACH IN ELEVEN MONTHS.

Pedigreed Stock, Superb Breeders, Day-Old Chix, Eggs for Hatching, all at let-live prices. :: Circular of facts free.

O. F. MITTENDORFF, Box F, LINCOLN, ILL.



290 EGGS
IN ONE YEAR



Cut of Brooder with Hover raised. The Hall is the easiest and quickest brooder to tend.

The Hall Colony Brooder is so sensitive to chicks' temperature needs that it all but thinks for them; broods 500 chicks, the practical limit with one brooder, at fuel expense of 45c. a week. It is the original coal-heated colony brooder—marketed by the Hall Company years before any other. Its reliable performance under all conditions of service, by successful poultrymen everywhere, has proven it to be

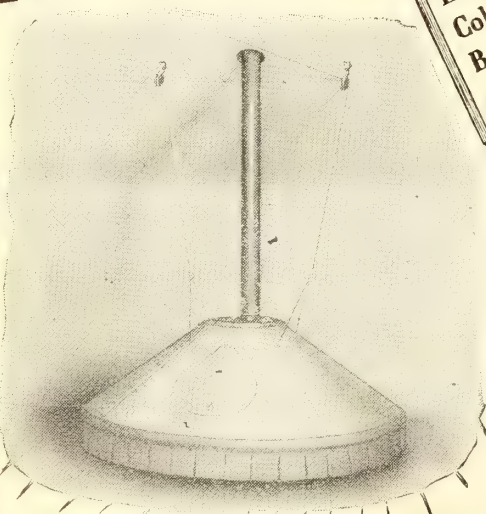
As Dependable as a Hen's Instinct

Successful poultrymen know that pullet raising for laying and breeding is essential to staying in the poultry business—and that good layers and breeders are range raised. With cheap, portable brooder houses, useful all year, you can brood hardy, healthy chicks in the field with the

HALL COLONY BROODER

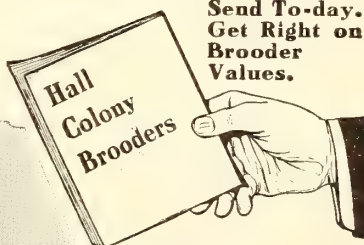
the original colony brooder that broods up to 500 chicks easier, cheaper, than one-tenth the number can be raised under any small flock system. Built for practical service; cast iron stove, revolving triangular grates cut out ashes or clinkers; fire pot carries 14 hours' fuel—no magazine needed; coaling, shaking, ash removal without raising hover—no chilled chicks, no gas; sensitive thermostat, absolute in temperature control; regulator parts few, positive—no delicate bearings, counterpoise weights, or complicated levers.

Cut of Brooder with Hover lowered. Coaling, shaking, ash removal with Hover in this position.



Send for Free Brooder Folder

Send To-day. Get Right on Brooder Values.



Tells you the best and cheapest way to brood flocks of healthier, stronger chicks; how successful farmers and poultrymen use the Hall—and why; free construction plans for easily and cheaply built colony houses.

Hall
Mammoth Incubator
Company

107 Southern Ave.
Little Falls, N. Y.

REQUIREMENTS FOR A GENERAL PURPOSE FOWL—WHAT BREED FILLS THEM BEST?

By O. W. ALDRICH, Columbus, Ohio.

ONE asks, "Why do you not use the phrase, 'Utility Fowl'?" Because this phrase is used in many different senses. Any bird is a utility or useful bird, if it will furnish a little meat and if a female will lay some eggs, so you see there are degrees in utility and the word is frequently used to signify a bird not up to the standard of exhibition birds, but worth something to one who requires little and only wishes to pay little, but is led to expect, by glowing advertisements, that he will get greater value for his money from the advertisers than if he was dealing with a breed of Standard fowls. As to the probability of his doing so, we leave it to the readers to judge.

What is meant by a general purpose fowl? A bird which will suit the greatest number of persons who breed either for their own use, for market purposes or as fanciers.

We say the greatest number, for we do not include all who keep some poultry. We do not mean the man who keeps only *chickens*, who lets them roost in the trees in the winter, who throws them a little corn when he happens to think of it, lets them get the rest of their living from the manure pile and their drink from its washing. We do not include the person with no sense of taste, who bolts his food in five minutes without any ability to discriminate as to the flavor or delicacy of what he gorges himself with; nor the person who is utterly devoid of a sense of beauty, who never notices a magnificent sunset, a wonderfully developed and symmetrical animal, and who has no sense of color harmony, who would as soon look upon a thing of ugliness as of beauty.

We mean a fowl that will appeal to the lover of beauty, to the lover of good, well flavored and well prepared food and to the person who desires to get reasonably well repaid for his time, trouble and expense of raising and keeping his fowls.

To be a general purpose fowl it must suit the majority of people who raise poultry for themselves, and to dispose of their surplus at remunerative prices and also those who go into the business to make money.

The first requisite is that the business shall pay for the labor. A fancier may be willing to overlook the financial question, to gratify his own love of the beautiful, or his pride when he can show his flock to his neighbors, but a variety which only enables this to be done is not the bird for the masses. The bird for the ordinary breeders must furnish eggs or meat, or both. All varieties will do this to a certain extent. Some will lay a greater number of eggs than the average, others will give a greater weight of meat than the egg laying strains, which have less weight, but the quality of the largest variety is not of the highest character. The highest type of the fowl is one laying the largest number of eggs, with the greatest weight consistent with other things and of quality to satisfy the refined palate, a bird of beautiful form and color, docile and easily restrained, hardy, and adapted to wide range of country.

Some birds are suited to certain places and certain markets. For instance, when a white shelled egg will sell for 25% more than the brown shelled egg, as in the markets of New York City only, this difficulty may overcome the lack of laying in the winter season when eggs would bring the highest prices, and bring up the receipts of the year for the eggs alone, to the average. The greatest laying varieties for the whole year are generally the smaller birds. The heaviest birds do not usually lay nearly as many eggs as those of the small or medium size and while they produce more meat, it is not usually as tender, fine grained or of as good a flavor as the small classes.

The general purpose fowl must be the one which will average the best for profit, and also satisfy the other demands.

A small bird laying thirty or forty more eggs in the year and principally in the season when eggs are cheap is not as desirable for the person as one which gives nearly as many during the whole season and so many more during the winter season that they will be worth as much as the other class and which, when fully grown, will sell for fifty or sixty cents more by reason of greater weight.

While the fancier may make more money from his males than females for breeders, it must be remembered that at least one-third, if not one-half of the birds grown by the market breeder or the farmers are used for food each year. If a surplus cockerel, when fully developed, will weigh eight and a half pounds and another four and a quarter, and they are of equal quality, we find there will be double the value in the larger bird.

Are there any varieties which combine the two valuable qualities of good egg and meat production? If so, they must become the popular varieties and as there have been three or four breeds which have become popular, if a new variety originates it will have their competition and must show that it is equal to the established varieties before it can become known to the public at large as equal or superior to the other breeds, and this is always a work of time. It cannot be accomplished by a boom, nor by extravagant claims made by its breeders. These things may attract the people who are always on the lookout for novelties, but do not reach the masses.

How does the Single Comb White Orpington meet the requirements as a general purpose fowl? Let us see. First, it is with the Buff and the Black Orpingtons, the heaviest of the clean legged breeds, and it yields to none of the lighter weight birds in flavor or in tenderness and fineness of grain. As a market bird, in some localities, the color of its legs and skin are against it; as the people are used to getting the yellow legged breeds. Why? Prior to the introduction of the Orpington the only other color, excepting yellow, was black, which is not a color that attracts the eye and thereby tempts the palate; and so the people demand the yellow leg chickens. The white is not displeasing to the eye and let a person once taste an Orpington and he will never demand a yellow skin bird when he can get a White Orpington. We had this experience here in the Columbus market. Some years ago we had more culls than we could use on our own table and we would not sell them as utility birds for breeding purposes. So we went to a

This shows a 12 Section, 3600 Egg Hall—24 Compartment (2 to a section) each holding 150 eggs; each section measures 29x24x54 inches over all—weighing 75 lbs. Requires a cellar 35 feet long by 10 feet 6 inches wide, though 12 feet wide is preferable; ceiling height should be 7 feet, though special provision can be made for lower ceilings.

Investigate the Profits from Hall Hatching

Commercial hatching is a permanent, profitable business; there are great possibilities in this new business existing right around you—now. You can build a paying business from a small start by using the

HALL INCUBATOR

(Capacities 1,200 to 20,100 Eggs)

the original and standard mammoth that is used and favored by

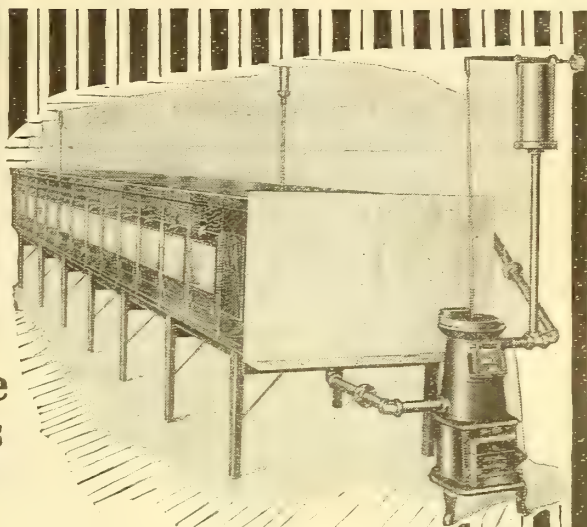
Send Now for This Invaluable Free Book



giving the success story of nearly 100 hatchers in this new business custom hatching and day old chicks. It also tells what we have learned in nineteen years experience about How to Hatch, Chicken Eugenics, Modern Brooding Methods, Sanitation, Maximum Flock Size, Hatching Cellars, Fuel Costs, Vital Points of Brooding, Chicks Indoors, Chicks Afield, etc., etc. Mail the coupon now before you mislay this magazine.

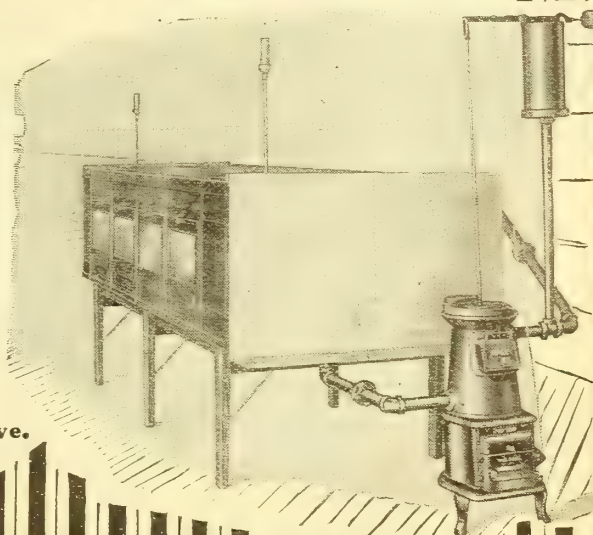
Hall
Mammoth
Incubator
Company

107 Southern Ave.
Little Falls
N. Y.



the biggest and most successful hatchers in the country. The Hall is the one machine of absolute reliability in its practical performance—a fact proved by the success of the people who continue to grow with Hall Equipment.

This shows the Hall 1200—four 300 Egg Sections—others added as you grow. You can install your own Hall—no tearing out cellar sides or doors.



Owen Farms Birds

Will Win Wherever They Are Shown

FIRST BLOW FOR 1915-16 SEASON

WHITE ORPINGTONS

At the Great New York Palace Show, the finest team ever shown by Owen Farms won:



1st, 2nd, 4th COCK; 1st, 2nd, 3rd, 5th HEN; 1st, 2nd, 4th COCKEREL; 1st, 5th PULLET; 1st, 2nd, 3rd PEN. BEST COLLECTION; SHAPE SPECIALS ON MALE AND FEMALE; COLOR SPECIALS ON MALE AND FEMALE.

Birds in other varieties were among the winners in customers' hands.

WATCH MADISON SQUARE GARDEN FOR OUR EXHIBIT OF S. C. REDS AND BUFF ORPINGTONS.

OWEN FARMS

**Buff and White Orpingtons,
White Rocks, White Wyandottes,
S. C. R. I. Reds and S. C. W. Leghorns**



First Prize Ckl., New York, 1914

Have demonstrated their superior merit at MADISON SQUARE GARDEN (NEW YORK), GRAND CENTRAL PALACE (NEW YORK), BOSTON, CHICAGO, CLEVELAND, PITTSBURGH, SYRACUSE, ALLENTOWN, ATLANTA, AUGUSTA, NASHVILLE, MEMPHIS, LIVERMORE (CALIFORNIA), and BROCKTON (MASS.), by winning

More Firsts Than All Competitors Combined

THOUSANDS OF PRIZES at hundreds of shows all over the WORLD have been won by Owen Farms birds in customers' hands.

My birds are line-bred from generations of winners and win consistently year after year. My birds have made good in the past and will make good in the future. This is the reason that the majority of my orders come each year from old customers or from new customers who have been advised to buy here by old customers. This fact gives me more personal satisfaction than any one thing connected with my growing business. Every bird is selected for you by the writer or my Superintendent, Mr. Davey. We are a unit in giving every customer just little more value than he pays for or expects.

**WINNERS FURNISHED FOR
ANY SHOW IN THE WORLD**

Where Are You Showing?

Write me this information. Tell me in what classes you expect your birds to win and where you are weak. Give me all the information you can about your show and let me quote you my price on a Cock, Cockerel, Pullet or Pen to complete your string and help you make a SWEEPING VICTORY, a victory like those that have made OWEN FARMS BIRDS FAMOUS.

No matter where you wish to win, I have the bird or birds for you to make the winning; line-bred birds of my own growing, that will breed you winning chicks. My supply is not endless and when I have booked all the birds of exhibition quality I can spare will stop quoting. Write me your exact needs and place your order before a competitor gets ahead of you.

**IF YOU ARE IN DEAD EARNEST IN YOUR DESIRE TO WIN,
PLACE YOUR ORDER WITH ME.**

370 Owen Farms Birds Have Won 1st Prizes at Madison Square Garden, N. Y.

No other breeder has a record in my varieties approaching this. Many other firsts at this same premier MADISON SQUARE GARDEN SHOW have gone on OWEN FARMS BIRDS in customers' hands.

OWEN FARMS

107 William Street

MAURICE F. DELANO, Proprietor

Vineyard Haven, Massachusetts

FRANK H. DAVEY, Superintendent

market man who always killed and dressed his fowls. We could hardly induce him to buy the Orpingtons. He said he could only sell yellow legged stock. We said, "You have some customers who would know a fowl of extra quality when they tasted it, have you not?" He said, "Yes." We said, "We will bring you a few to try. Tell your customers to take one and if they are not satisfied they can have their money back and we will refund the money which you have to pay back." He never demanded the money back, but was always glad after that to get a White Orpington cull. Happily we have so far culled our flock in the past that we now can only supply our own family with the culls from nine hundred birds raised during the year.

In California where the quality is known, the high class restaurants make a higher price on their menu cards for Orpingtons than for other breeds. If a person wished to cater to the high class trade for broilers and fries, it is confidently believed that no variety can excel the White Orpingtons. With us they grow to broiler size in from six to seven weeks and after that age their growth is wonderful. At from three to four months we have had a gain from one and a half to two pounds in less than three weeks.

The White Orpington is a good laying breed and especially of rich, good sized, brown eggs in the winter season, laying more eggs from November to April than the lighter weight breeds.

It has been claimed by some professors that in other varieties, birds under Standard weight always lay more eggs than those of Standard weight, and exhibition qualities. Possibly this may be so with the breeds they tested, but our experience teaches us that it is not necessarily so in the White Orpingtons. We had a pullet which laid 224 eggs, by trapnest count, her first year, and but few less the next. She grew to weigh nearly ten pounds, two pounds over Standard weight and has taken first prize as single and in a pen in Madison Square and Chicago shows. A pullet sired from a son of this hen by an exhibition sire, which was owned by a purchaser from us this last season, laid 200 eggs in nine months and twenty days at the National Laying Contest at Mountain Grove, Mo. Up to April this pen stood third in the whole show, taking the medal for first place in February. We have just received a letter from a customer who notified us that a pullet raised from eggs purchased from us had laid 50 eggs in 50 consecutive days and we have received other letters which show results good enough to satisfy any breeder. We are satisfied that a good laying strain can be produced in the S. C. White Orpington with the Standard type for exhibition and nobody need tell us that you need to have white lobes, blue legs or pale yellow eyes in order to get eggs from the White Orpington. Hucksters may tell that story and make their victims believe it. So it is a case where care in mating and feeding can develop a heavy laying strain of Standard weight and type.

No bird is better suited to varieties of climate. We have sold birds and eggs in every state of the union and every province in Canada; from New Orleans to Edmonton in Northern Alberta, from Maine to Montana; to New Foundland and the West Indies, and have never had a complaint that the breed was not suited to the locality, and

we know that some of the finest of imported birds have come from far off New Zealand.

While on a farm it is not necessary to keep a variety restrained—in the city and on village and suburban lots the quiet disposition of the White Orpington renders it especially adapted to the conditions. You only need a fence four feet high to keep them from troubling your neighbors.

Have you an artistic eye? Well, look at the symmetrical, lordly White Orpington cock or cockerel with his Standard bred mates upon the green lawn and you will not need to look further for a sight to delight your eye and sense of harmony of color and symmetry of proportion.

Now, as to purity of color. When you go to the large shows look carefully and see if any of the other white varieties



GEORGE E. HOWARD.
(Formerly Editor of the Feather.)

Mr. Howard is well known among poultrymen everywhere, having hosts of friends in all parts of the country. During the many years as an editor, and publisher, he was especially popular with fanciers and poultrymen everywhere, and we can predict nothing but success for him in new connection with Golden & Company of Washington, D. C. Mr. Howard's long and successful career along various lines in connection with the poultry industry should be a great incentive to the many who are aiming for real success.

show purer white than the Orpingtons. One thing is certain. You did not have to double mate to get what you want as do the parti-colored variety breeders and it is not so difficult to get uniformity in color in a white bird as in buff or other colored varieties. This is recognized in exhibitions where it is thought to give the championship where a white bird is handicapped in favor of one of other color, the other colored birds being given a half-point in competition because of greater difficulty in breeding purer color than the white and we know that in the speckled varieties you seldom see two birds uniform in their markings.

Without disparaging other popular varieties which are of great value to the people at large, we confidently claim that no variety of poultry has more qualities to commend it to the public at large, as well as to the fanciers, than the well bred Single Comb White Orpington.

It is objected by some that it costs

Owen Farms Birds Will Breed You Winning Youngsters

I have sold mated trios and pens to thousands of breeders all over the WORLD that have made good and bred them better chickens than they ever owned before. No matter what you pay you have the immense advantage of the line breeding back of these birds and of the careful mating according to individual merit and blood lines that the combined experience of over sixty years with thorobred poultry enable Mr. Davey and the writer to give you.

Do you want to start right?

Do you want the best producing birds your money will buy?

Do you want the advantage of our long and successful experience?

The Answer is Easy: Of Course You Do.

We have selected and shipped nearly twice as many birds during October, November and December as we did in the corresponding months of 1914. We have found by actual HANDLING and getting to KNOW our own birds that my flocks are the best ever grown on Owen Farms. We know we can ship hundreds more superb breeding birds in my six varieties that will stand the gaff of time and that will start anew flocks not going just right, or start new flocks aright.

Owen Farms Flocks Are Established

They are years beyond the experimental stage and have been the foundation blood of most of the really successful breeders in the country. Very few really good flocks exist that do not have more or less Owen Farms blood. My birds have made good for others and will start you on an equal fighting basis and save you many years uphill work. TRY THEM FOR YOURSELF.

UTILITY QUALITIES

Owen Farms birds are famous the country over for size, bone, perfect health, vigor, prepotency and heavy laying qualities. There are no birds that excel them in these important functions and very few flocks anywhere near as good.



My Birds Live, Grow, Lay and Pay

Satisfaction Guaranteed Every Customer Every Time

I do not want any customer to keep a bird that does not please him, and any bird I ship can be sent back after a forty-eight hours' rest and the purchase money will be promptly returned. I will pay the return expressage on males at \$10.00 or more each and on females at \$5.00 or more each.

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OWEN FARMS

107 William Street

MAURICE F. DELANO, Proprietor

Vineyard Haven, Massachusetts

FRANK H. DAVEY, Superintendent

The Real Champions of America



Princess Efficiency
1st Hen and color special; Champion Female Barred Rock, Chicago Coliseum, Dec., 1914. Cut made from unretouched photograph.

At Hagerstown, Chicago, Chattanooga, Panama-Pacific Exposition, Memphis, Atlanta, New Orleans, and scores of other shows, my birds have been judged by many judges and have made wonderful records. "ASK THE JUDGES" about

Andrews' Premier Strain Barred Rocks

My "Hall of Fame" contains dozens of blue ribbons, cups, A. P. A. gold medals, color and shape specials, trophies, championships and sweepstakes prizes. These great winnings have been made by birds owned, bred and exhibited by me.

My Pens are now mated up, and I am booking orders for eggs from these sensational champions at

\$10

for setting of 15

Why not infuse the prize-winning blood of Andrews' Premier Strain into your flock? It will put you in the front rank of Barred Rock fanciers. In my great conditioning houses and yards I have many males and females ready to win honor and prizes for you, as well as improve your strain. I will sell them to you very reasonably. Write me about your needs.

Send for Beautiful Art Catalog

O. B. ANDREWS, Box A-303, Chattanooga, Tenn.

Originator-Breeder America's Premier Strain Barred Rocks

more to start with the White Orpington than with the older varieties. This is true, but let it be remembered that it is not necessary if you have a surplus of male birds in your hatch to sell them to the market man or to eat them, because if you have Standard bred birds, in a single season you will be more than able to make up the difference between the costs of the cheaper varieties and what you pay for the White Orpingtons, because there is yet and will for a long time be a great demand for male birds of good quality for breeding purposes.

Every citizen should have the good of his community at heart. Not to be interested in the public good will in a great measure defeat private enterprise. The progress of a community depends upon the health, peaceful relationship, and industry of its people. The community with the highest standard of health and happiness, with the broadest, all-around educational viewpoint will have a citizenship composed of great men and great women, because they have been given the opportunity to develop the best there is in them in the way of ability or genius. Making the best there is out of the material at hand is the problem of the good citizen.

The best preparation for doing a big business next year is doing your best today. Because an undertaking is big is no reason for the assumption that it is impossible. Marcus Aurelius says, "If anything is possible for men and conformable to his nature, think then that this can be attained by thyself."

A Happy New Year For Poultrymen Who Use NEWTOWN GIANT INCUBATORS AND BROODERS

The year 1916 promises to be a record-breaker in the poultry industry. Newtown Equipment will enable you to secure your full share of the big profits that are sure to be made, and make you happy in your work, too.

Newtown Giant Incubators

are made in many sizes, suitable alike for the side-line poultry keeper and the commercial farmer. Every model has the exclusive Newtown improvements which reduce labor, eliminate worry, insure the biggest hatches of husky chicks. And

Newtown Giant Colony Brooders

will raise the chicks; do it cheaply, efficiently, safely, with least labor and practically no loss.

Remember this:—The Newtown Giant Colony Brooder—coal-burning, self-feeding, self-regulating—was the first successful brooder of the colony type. It has been widely copied but never equaled. It is "years ahead" of all other colony brooders and has "made good" all over the world.

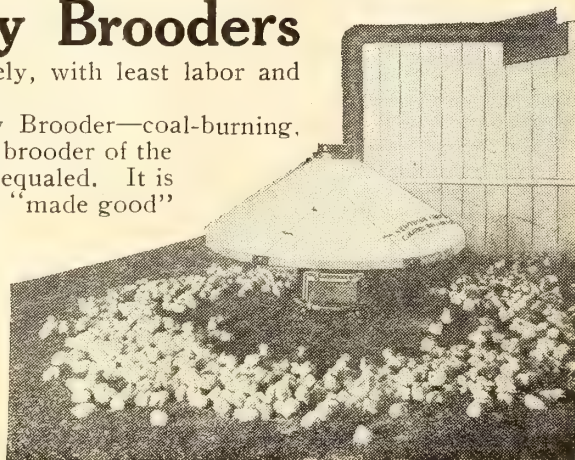
Secure Newtown Equipment if you wish to hatch and rear "the most chicks, the best chicks, with least labor and at lowest cost." Newtown Machines are *right in every respect*—and the liberal Newtown Guarantee protects you fully.

Write us today for big catalog and other interesting literature. They are sent Free.

NEWTOWN GIANT INCUBATOR CORP'N

21 Warsaw St.

Harrisonburg, Virginia



THE PALACE SHOW



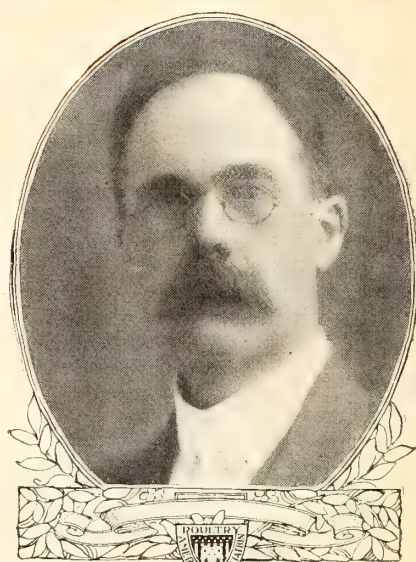
THE GREAT PALACE SHOW



L. D. Howell, Sec'y.

Fine, Big Quality Exhibition
Held in New York
City, December 7 to 11,
1915.

By Prince T. Woods, M. D.



Robert Seaman, Pres.

BYOND measure a decidedly worthwhile show! That we think aptly classifies the exhibition of the Empire Poultry Association held at the Grand Central Palace, New York City, December 7th to 11th, 1915.

It was a big show, one of the biggest we have attended in New York City. There were 2,998 entries in the poultry classes alone, counting pigeons, pet stock and birds the entries would total close to 5,000. While the larger proportion of the entries came from Eastern sources, it is interesting to note that twenty-six states were represented by poultry exhibits which included entries from as far south as Florida, Alabama and Louisiana, and from the west including Oklahoma, Kansas and California. England and Canada were also represented.

The quality of the poultry in most of the classes was remarkably good—particularly good considering the season. In some classes adult specimens needed a little more time to put them in finished exhibition condition and some of the young birds shown were decidedly immature, but take the show as a whole, one found uncommonly fine quality in nearly all of the winners. The attendance was very good, the first three days being far ahead of the gate report for the same days last year. Interest of visitors was keen and most breeders with whom we talked reported business as unusually good for the season. Several told us that November and December sales, to date, were considerably ahead of previous years and that they were looking forward to a very good season.

A large number of entries, fine quality of exhibits, and good attendance, go far toward making a successful poultry show; but it was not because of these alone that we named the Palace Show as "beyond measure a decidedly worth-while show."

Probably one cannot, or should not, say that a poultry show has a soul, but certainly it possesses a spirit which permeates the whole atmosphere of the exhibition. Express it as you will, the spirit—the atmosphere, if you please—of the Palace Show was good. It made the visitor and the exhibitor—big or little—feel that it was *his* show and a show for everybody. The show was well staged and admirably managed. The competition was friendly and the judging, we believe, conscientiously and honestly done. We did not have to listen to the hard-luck story of a single disgruntled exhibitor. There was enthusiasm, good fanciership, good fellowship and good sportsmanship everywhere and we found many veterans in the fancy earnestly and interestingly analyzing specimens with beginners. There was a spirit of democracy here that tended to boost all members of the poultry fraternity upward toward better achievement and better service. In fact, if ever the Golden Rule successfully placed an entering wedge in a poultry exhibition, it did so at the Palace in 1915. These are some of the reasons why we classed this show as beyond measure worth while. If the management continue to build as well, on so substantial a foundation, in the years to come, then things will be decidedly promising and prosperous for the poultry fancy.

We offer our sincere congratulations to Robert Seaman, president and general manager; Capt. C. E. Arnold, vice president; L. D. Howell, secretary-treasurer, and their efficient corps of assistants who helped to make the Palace Show a show worth while. We enjoyed our visit to the show immensely, we didn't have to listen to a single "knocker" and, while we worked harder and spent more time on the classes than at any previous show, we had a good time and returned home with an in-

creased store of enthusiasm for pure bred poultry.

The exhibits of manufacturers and dealers in poultry equipment, feeds and supplies were exceptionally good and attractively displayed. There were many on the main floor and a still greater and very attractive display on the balcony floor. E. F. Hodgson, of Boston, had a very large exhibit of portable houses, yards and equipment, and his exhibit was made still more interesting by the addition of large yards of poultry representing several varieties. In E. C. Young's house exhibit a mother hen and fifteen husky White Rock chicks attracted a great deal of attention. Among the other exhibitors of supplies and equipment were: American Agricultural Chemical Co., William Bartels Co., Cyphers Incubator Co., Claude W. Edgett, Model Incubator Co., Kolbe Portable Stove, Stumpp & Walter Co., I. J. Stringham, H. L. Bond, Candee Incubator Co., G. E. Conkey Co., J. G. Harrison Sons' Nurseries, Dickenson Co., W. J. Donnelly, Easy Method Co., Hazel & Birmingham, A. A. Helpay, Hartley Steel Crated Box Co., Ideal Millinery Co. (poultry feathers), Maurer Mfg. Co., D. Lincoln Orr, O. K. Poultry Co., Park & Pollard, Rust & Son, Roller Tray Incubator Co., H. L. Rand, Red Comb Feed, Swift & Co., United Brooder Co., Tywacana Farms Poultry Co., J. R. Witherspoon.

Interesting educational exhibits were made by New York State College of Agriculture, Cornell University, Ithaca, N. Y.; New Jersey Agricultural Experiment Station, New Brunswick, N. J.; New York State School of Agriculture, Farmingdale, N. Y.

The poultry judges at the Palace were:

George W. Weed, Black Orpingtons, Black Leghorns, Black Wyandottes. C. H. Shaylor, Barred Rocks. Chas. Nixon, White

(Continued on Page 83)

WILBURTHA



WHITE LEGHORN

FIRST PRIZE COCK NEW YORK PALACE 1915

bred and owned by

WILBURTHA FARM, TRENTON JCT. N.J.

Kind Reader: Please study this picture again. Go over it section by section, and we believe you will agree with us that this bird is a really and truly Leghorn, such as is generally pictured in one's mind when we read the description of a perfect bird. Without question and a doubt we haven't handled very many better birds than this one. When we take into consideration that this is a cock bird and not a young cockerel in his prime, the beautiful shape and the remarkable carriage of the bird impresses itself very forcibly. Mr. Kerr of the Wilburtha Farms, Trenton Junction, N. J., has produced some wonderful birds, we believe, and has set a mark with his first prize cock at the Great Palace Show. The fine sweep from head to tail and the beautiful curved breast and good length of leg which this bird has, is all that any Leghorn breeder could wish for.—L. A. S.



First White Plymouth Rock cock, Palace Show, December, 1915. Well stationed bird thruout and of good type and color. Owned by Lewes P. Doerhoefer, Anchorage, Ky.—F. D. R.



First pen White Plymouth Rock cockerel at the Palace Show, December, 1915, in competition that was especially keen. Bird of wonderful type and color. Owned by Lewes P. Doerhoefer, Anchorage, Ky.—F. D. R.



First prize Barred Plymouth Rock pullet, Buffalo, N. Y., November, 1915. The wonderful color and type of this female made her an easy winner. Bred and owned by L. B. Resseguie, Millers, N. Y.—F. D. R.



One of the winning females from the first pen Buff Wyandottes at the Palace Show, December, 1915. Of good type and extra fine color. Owned by Dr. N. W. Sanborn, Holden, Mass.—F. D. R.



White Orpingtons at the Palace Show were of unusual high quality. The unretouched picture of first hen speaks for itself and is a good sample of the birds exhibited by Owen Farms, Vineyard Haven, Mass.



First, second and fourth cockerels were awarded to Owen Farms, Vineyard Haven, Mass., at the Palace Show. The unretouched picture above shows a bird of true Orpington type and breed character.



Above picture of the White Wyandotte female, owned by Fernbrook Farm, Menand's Road, Albany, N. Y., shows the wonderful type for which their strain is noted. A winner at many shows.



Besides showing their wonderful line of White Leghorns at the Palace Show the Wilburtha Farms of Trenton Junction, N. J., also exhibited a number of Columbian Rocks. The above was first pullet.



First prize Silver Campine cock, Palace, N. Y., Show, December, 1915. One of the best cockerels shown to date—a real study. Owned and bred by Homestead Farm, Wayland, Mass.



Chas. Latham, Lancaster, Mass., showed a fine line of his Barred Rocks at the Palace Show. We show here an unretouched picture of one of his winning hens. Great type and remarkable color.



The first prize Buff Leghorn cock exhibited by Monmouth Farms, Freneau, N. J., at the Palace is one of the greatest colored cock birds we have handled for some time. An easy winner.—L. A. S.



Homestead Campine Farm, Wayland, Mass., carried off the lion's share of first prizes at the Palace Show. The first prize cockerel is a model in type and color.



Bradley Bros., of Lee, Mass., rank among the oldest breeders of Barred Plymouth Rocks in this country. Their beautiful exhibit (not for competition) at the recent Great Palace Show caused many favorable comments. We selected one of the pullets in one of the pens to show our readers the remarkable quality and type of the birds exhibited.



This beautiful cockerel was the center of attraction of Bradley Bros., Lee, Mass., fine exhibit at the recent Palace Show. We know that Mr. Bradley refused several large offers for this bird. This young bird shows some of the most beautiful type and coloring we have seen for some time and as a cock bird should be a world beater.



The S. C. Anconas at the Palace Show were of exceptional quality thruout. George N. Barstow of Oneonta, N. Y., showed a beautiful lot of birds. We show here one of his winning pullets.—L. A. S.



The Columbian Rock class was unusually strong at the Palace show. The cockerel above, bred and owned by T. J. Enslin, Hackettstown, N. J., headed one of the winning pens.



FIRST PRIZE ADULT EXHIBITION DEN BOSTON JANUARY 1915 BREED SHOW HEABY DAY YOUNG MONROE

THE PALACE SHOW.

(Continued from Page 76)

Rocks. I. W. Mole, Buff Rocks, Partridge Rocks. Paul W. Doll, Silver Pen Wyandottes, Silver Pen Rocks. F. W. Otte, Columbian Rocks. W. B. Atherton, White Wyandottes.



The above picture of this White Plymouth Rock pullet shows to good advantage the quality bred by W. P. Nelson of Bayonne, N. J.

J. D. Jaquins, Buff Wyandottes, Singles. J. E. Willmarth, Buff Wyandotte Pens. W. E. Samson, Silver Wyandottes. H. P. Schwab, Partridge Wyandottes, White, Blue, Ermine and Jubilee Orpingtons. D. Lincoln Orr, Columbian Wyandottes and Light Brahmas, Singles. Harvey C. Wood, Light Brahma Pens. I. W. Bean, R. C. R. I. Reds. J. W. Simmons, S. C. R. I. Reds, Buckeyes. Geo. W. Tracey, R. I. Whites, White Minorcas, Javas, Red Caps. J. Harry Wolsieffer, Buff Orpingtons. Frank L. Platt, Campines, Sussex. F. W. Aubry, Faverolles. F. C. Sites, Langshans, Cochins. H. V. Tormohlen, Brown Leghorns, S. C. Leghorns. I. C. Punderford, White Leghorns. H. J. Fisk, Buff Leghorns. I. G. Bean, Anconas. Daniel Shove, Houdans. Wm. G. Minich, Minorcas, Polish, Hamburgs, Andalusians. Chas. T. Cornman, Dark Cornish. John W. Ward, White Cornish. W. M. Anderson, Buttercups. Jas. Glasgow, Games. John Brett, Waterfowl.

Bantam Judges—Geo. Young, Clean Leg Bantams. Chas. M. Smith, Feather Leg Bantams. Jas. Glasgow, Games.

Elsewhere in this journal will be found a complete list of the awards. It is not our intention to comment on the judging other than to say that we believe it was fairly and honestly done. We have never made any pretense of

being a general poultry judge, we do not believe that any writer can hastily go thru the classes of a whole show and make worth-while criticism of the work of specialty judges, who have handled the birds and made careful and painstaking appraisal of the value of the specimens in their classes. Frequently they have reasons, good reasons, for placing the awards that cannot be noted by the observer who must make a rapid survey of the winners in all classes. However, we had instructions to look over the winners at the Palace and to

make running comment thereon. Here-with follows our observations, and, whatever else may be said of them, the comments are honest and without bias and wholly our own, based only on the way the specimens looked to us:

Barred Plymouth Rocks, 158 specimens shown in the single classes and 14 exhibition pens. Quality of birds in the winnings excellent, but considerable variation in quality running thru the classes. We do not see the benefit of having single classes for pullet-bred cocks and cockerels and cockerel-bred

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and young from FARM RANGED BIRDS.

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in either Comb. We have the birds to win and to breed winners for you. Shipping all on approval. Write us your wants, and for Catalog. Eggs for hatching from actual championship matings.

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Buff Orpingtons
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S. C. R. I. Reds
White Wyandottes
Silver Wyandottes
S. C. White Leghorns
R. C. White Leghorns
S. C. Brown Leghorns
R. C. Brown Leghorns
S. C. Buff Leghorns
Mottled Anconas
S. C. Black Minorcas
Light Brahmas

We are baby chick specialists and this is our sixteenth season. The chicks we furnish are strictly first class, from pure bred stock, and no finer show or utility stock could be found. Many of our customers report of winning prizes. Be sure to write for our catalog.

M. Uhl & Company

New Washington, Ohio



"Palace Queen," first Buttercup pullet, color special and best female. Palace Show, 1915. Owned by Mrs. H. D. Reed, Marcellus, N. Y.

hens and pullets in this variety. It only serves to bewilder the beginner. Why not confine the double mating values to mated pens of cockerel-bred and pullet-bred birds and cut out the special single classes? It would certainly have greater educational value and tend to get rid of the idea that in Barred Rocks we now have two varieties in one. Pullet-bred cocks: 1st—a well-set, vigorous bird with good color, a bit high stationed and not as deep in breast as we like them. 2d—a vigorous cock not quite fully furnished, deficient in depth and fullness of breast. Pullet-bred cockerels: 1st—a nice clean, good colored, well-banded youngster, well furnished and promising, but shown in lower tier coop, where he did not display to advantage. 2d—a good clean-cut youngster of promising type. 3d—a neat, bright, promising specimen rather smaller than the other two. Cockerel-bred hens: 1st—a good-sized, well-finished, vigorous bird of good depth. 2d—rather small, with fairly good type. 3d—between the other two in size, shows evidence of good breeding. Cockerel-bred pullets: 1st—a nice, good-sized bird of strong type and color. 2d—neat type and of medium size. 3d—a good-typed bird but not shown to advantage on account of condition.

Barred Plymouth Rocks, regular classes: Cocks: 1st—an easy winner, large, broad, deep, lusty and vigorous with excellent color and type. 2d—a nice well-set bird, good all around, but not the equal of winner in either size or breadth. 3d—a smaller bird lacking in breast and station rather high, has nice barring. Hens: 1st—fine color, nice clean, sharp barring, type splendid

but could stand a little more weight and size. 2d—a good-sized, nicely barred bird, but not quite up in condition. 3d—good type and a good all-around bird, but lacking in evenness of markings. Cockerels: 1st—fine color and barring, type good except a bit high on legs and not deep enough in breast. 2d—a nice, large, vigorous bird of good color and type, but lacking in head points. 3d—a nice colored bird, well marked, but off in leg color. Pullets: 1st—good, clean, sharp-colored bird of nice type, neat head and good legs, barring good all over but a bit shy in wings. 2d—excellent type but not mature, color nice and sharp. 3d—a nice, neat, small bird that should show to better advantage when a yearling.

White Plymouth Rocks, 81 specimens in single classes and 14 pens. Good quality running thru all classes. Cocks: 1st—a nice, large, deep-bodied, broad-backed, white bird shown in fine condition. 2d—a large, husky specimen, but not the equal of first in either depth of breast or breadth of back. 3d—a smaller bird of good type and nice color, but only fair in head points. Hens: 1st—a good, large hen of good type and color, but carries more length of beak than we like to see. 2d—a good large bird, but not equal to winner in legs or head points. 3d—good color and type, head fair, but not same shape on both sides of skull. Cockerels: 1st—shows family resemblance to winning cock, a promising bird, a bit weak in leg color. 2d—a good broad, deep, vigorous bird with good legs, a bit coarser in head points, but in other respects would prefer him to winner. 3d—a

neat bird, smaller in size and needs filling out, not shown in best condition. Pullets: 1st—a nice, large, well-matured pullet of good type and color. 2d—a nice white bird of good type, good depth and fairly good size, a promising specimen. 3d—a promising pullet of good type and color, in fact neat all around.

Buff Plymouth Rocks, 48 singles and 1 pen. Cocks: 1st—a large, well-set, deep-bodied bird, a bit strong in color but uniform, type good, weak in head points, a bit off in condition. 2d—a fairly even colored bird, a bit shy in head points and type. 3d—lighter in color and not so uniform, a bit too high in station and would stand improvement in head points. Hens: 1st—color and type good. 2d—smaller, darker in color, a good, neat type. 3d—a good, large hen with fairly even color and good type with good depth of body. Cockerels: 1st—a fine even colored bird of a rather rich buff, good type and fair head; legs should have been cleaned before showing. 2d—a good even colored youngster with a rather high tail and a bit off type. 3d—a fairly good-colored bird with good breadth of back, tail up and breast too flat. Pullets: 1st—good color, neat, well-shaped type, but lacks maturity. 2d—good shape, good breadth and depth, rather strong color. 3d—color fair but not uniform, bird a bit thin, with legs too close together.

Columbian Plymouth Rocks, 48 singles, 5 pens. Excellent color and type shown in this variety. Cocks: 1st—a bird of fine type, good size and considerable strength of color. 2d—a richer colored bird but not quite so good in

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Acknowledged thruout the World as being the Standard for all the Leghorns.

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Hundreds of yearling hens for sale from my best line-bred laying stock. My cockerels this year are the best I ever raised. This is your chance to improve your stock, both in laying and exhibition qualities.

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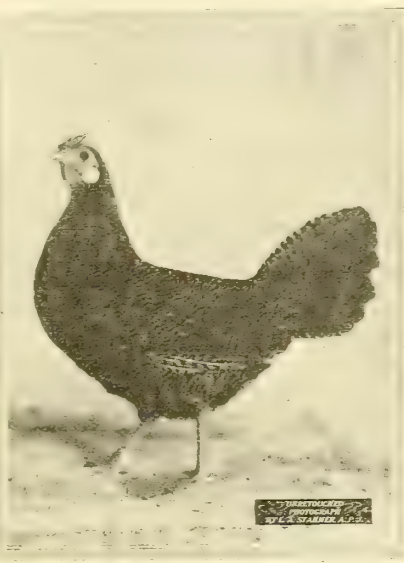
D. W. YOUNG Box E-12 MONROE, N. Y.

type. 3d—a good, large, well-set bird of good color, but a bit off in head points. Hens: 1st—a splendidly colored bird, strong in neck and tail. 2d—a hen with fine Rock type and nice color. 3d—a good, large, strong bird of nice type, but shown in laying condition. Cockerels: 1st—a rich, snappy colored, nice-marked youngster, but needs filling out in breast. 2d—a fine, large bird with considerable promise. 3d—a nice colored youngster, but a bit shy on head points and needs time to fill out in breast, has good breadth and promises well. Pullets: 1st—a nice, strong, rich-colored bird in excellent condition. 2d—a promising pullet with good type. 3d—neat in shape and color, but smaller and not equal to first two.

Partridge Plymouth Rocks, 44 singles and 3 pens. Some splendid color, penciling and type shown in this variety. Cocks: 1st—a rich-colored bird of good type, shown in good health and vigor. 2d—a bird of excellent type and color, but not as fully furnished and not so good in head points. 3d—a good broad, deep bird of nice type and a close third. Hens: 1st—a nicely penciled hen with good, rich color, type good. 2d—a close second, but not quite as well furnished. 3d—a good large hen with Rock type and good color. Cockerels: 1st—a large, deep, broad, long-bodied cockerel, but a bit shy in head points. 2d—smaller bird of fair type and good color, but weak in comb. 3d—color good, type

fair, stands knock kneed. Pullets: 1st—a nice, neat pullet with good type and color. 2d—a good, rich-colored bird with good type.

Silver Penciled Plymouth Rocks,



One of the most beautiful Golden Penciled Hamburgs we have seen for some time was the first prize pullet at the Palace show. Bred and owned by John A. Gamewell, Little Silver, N. J.—L. A. S.

only three birds shown—cock, hen and pullet. These were nice-colored, well-marked birds of good type.

Silver Wyandottes, 30 singles and 4 pens. Cocks: 1st—a nice patterned 'Dotte' of good type, color and lacing. 2d—a close second with nice open-laced breast. 3d—a coarser, large and massive specimen, with legs too close together for his size. Hens: 1st—an easy winner as to color, with fine open lacing and sharp clean markings, a bit coarse as to type. 2d—a good type with good color. 3d—a large, vigorous hen, but off in type and faded as to color, a bit too open in lacing, lacing broken and a good many mossy feathers. Cockerels: 1st—a promising youngster of good type and nice sharp color. 2d—a good, clean type, with good breast, but weak in markings on wing. 3d—a promising youngster, but immature. Pullets: 1st—a neat, sharp, snappy, well-laced bird of good type and much promise. 2d—a nice large, broad bird, a bit long in back. 3d—a nice, neat pullet with good type and breadth and excellent color.

Golden Wyandottes, only cockerel, hen and pullet shown, type and color good, but a bit lacking in size.

White Wyandottes, 160 singles and 12 pens. Hot classes and the most talked about in the show. Plenty of good birds that failed to even get a look in at the ribbons, chiefly because there were even better birds ahead of them. The



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WIN FIVE FIRSTS AT HAGERSTOWN, 1915

Our birds have the type and size that is necessary to win at the big shows. We have a few Cockerels for sale that will improve your flock wonderfully. It will pay you to get our prices. Satisfaction guaranteed.

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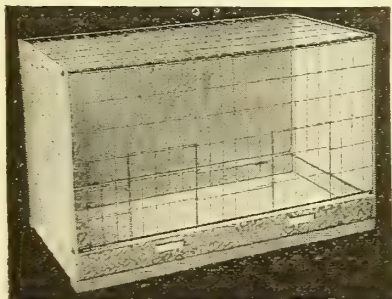
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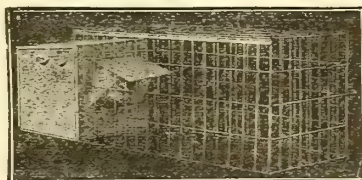
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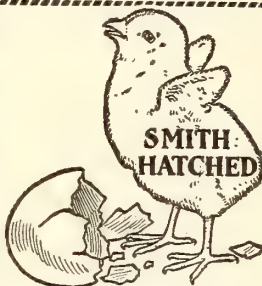
Tarbox's Silver Wyandottes

Winners of all six firsts at the Chicago Coliseum Show, 1915. We can furnish you Cocks, Hens, Cockerels and Pullets good enough to show in any show at prices that are right. Also a large number of utility and good breeding birds. Breeders of Silvers for 25 years. Write for catalog and prices.

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From winners at the largest shows and heavy layers for several generations. Ten times more fresh air goes through our incubators than any other system giving you greatest vitality in chicks. S. C. & R. C. White Leghorns & S. C. Brown Leghorns \$10 per 100; \$5.50 per 50; \$3 per 25. Barred P. Rocks, White P. Rocks, S. C. & R. C. Black Minorcas, White Wyandottes, S. C. & R. C. Reds, S. C. Anconas \$12.50 per 100; \$6.50 per 50; \$3.50 per 25. Our ninth season. Safe arrival and satisfaction guaranteed. **Smith-Standard Co., 7916-18 West Madison Avenue - Cleveland, Ohio.**



Parks' Bred-to-and-Do-Lay Barred Plymouth Rocks

Have Layed Their Way Into Universal Popularity



1915

The records of the last Missouri Laying Contest show a **Parks Strain Pen** of five birds made the greatest winter month record (114 eggs in January). Won more silver cups than any other pen and outlayed all other breed entries, English Leghorns included.

It was a **Parks Strain Breeder** that led by over 150 eggs all the Barred Rock Pens in the North American Laying Contest just ended.

It was a **Parks Strain Hen** that laid 291 eggs in a year, and a **Parks Strain Hen** that, by laying 148 eggs in 148 days holds the greatest sworn continuous laying record to date.

Mr. Parsons, El Paso, Texas, with **Parks Strain Hens** averaged 208 eggs from 128 hens, showing what over 26 years of careful selection, pedigreeing, and trapnesting for eggs has done for our strain. Do you wonder that our customers the past month have included South America, Australia, Cuba, Phillipine Islands, and Canada, and that we get the following unsolicited comments:

"I doubt if there is another breeder in the United States, Canada, or the whole world that produces greater layers."—G. M. Curtis, Ed. R. P. J.

"I believe Parks has the most complete record of his birds and breeding of any breeder in America."—Frank DeLancey, Ed. Poultry Press.

"We need more specialty breeders like Parks."—W. C. Denny, Ed. A. P.

"It's a pleasure to recommend your strain of known layers."—Prof. Morrison, Missouri Experiment Station.

"Parks, you've got the greatest collection of favorable reports from customers I have ever seen in all my travels."—Judge H. P. Schwab.

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J. W. PARKS, Box J, ALTOONA, PENNA.

judge worked long and conscientiously on this variety, and he sure had some job. He must have placed the ribbons right, for we didn't hear a single "kick." Cocks. 25 in the class: 1st—a large, heavy, deep-bodied, broad-backed specimen with good head points, back very short, tail well spread at base, wide between legs. 2d—a husky, vigorous, good-typed 'Dotte with deep body. 3d—a nice bird with rather coarser head points than first two. Hens, 29 in the class and all good: 1st—a nice, clean type hen, good all over and neat head points. 2d—not quite so good about the head and has pinched nostrils, but is excellent in type, size and color. 3d—a good specimen, but a bit coarser in type. Cockerels, 56 in class: 1st—a nice, clean-typed cockerel of good size, but a trifle coarser in head points than we like them. 2d—a bit smaller and not quite as good in condition and needs filling out in breast, a good, vigorous bird and promising. 3d—a nice, clean-cut bird in type, good color, not fully filled out. Pullets, 50 in class: 1st—a nice-shaped bird with well-set body and tail, well spread at base, good in color. 2d—a large, deep, wide, full-breasted bird, good all over. 3d—a good all-around bird of good type, weakest in head points.

Buff Wyandottes, 128 singles and 15 pens. Some excellent type and color shown in these classes. We were interested and pleased to note that preference here appeared to be given to a rather rich golden buff color. Cocks: 1st—a nice-colored, large bird of good type, but with rather coarse head points. 2d—a nice type, but lacking a little in evenness of color. 3d—a good colored bird, a bit deficient in depth of breast, pale in face and head gear and a bit off condition. Hens: 1st—good even color and good type, but a bit off in carriage of tail. 2d—a bird of good type and nice color. 3d—color and shape good but off in carriage and shape of tail. Cockerels: 1st—nice-typed bird, good, rich color, vigorous and a decidedly promising specimen. 2d—a bird with good color and good depth and breadth of body, but with head carried too far back and breast too far forward. 3d—a neat, well-shaped, promising bird. Pullets: 1st—good depth and breadth of body and nice color. 2d—a close second, but lacking in maturity. 3d—a good broad deep-bodied pullet, but not so even in color and a bit off in color of legs.

Black Wyandottes, 13 singles and 1 pen. Good black color, but birds a bit coarse and full feathered. Not as good type as other varieties of Wyandottes. All good sized, large vigorous birds.

Partridge Wyandottes, 41 singles and 2 pens. Cocks: 1st—good type, good size, depth and breadth and excellent rich color. 2d—a nice, well-set bird of good type and color. 3d—a good dark colored bird, broad, but a bit high in breast and showing white in lobe. Hens: 1st—good in color, type and size, nice, clean markings. 2d—a close second. 3d—color and type good, but legs a bit close together. Cockerels: 1st—good in color and type and fair in size. 2d—a nice colored bird of considerable promise, but needs filling out, especially in depth of breast. 3d—a close third in type and color. Pullets: 1st—good color with nice penciling, type good, breast not fully developed in depth. 2d—a nice large strong pullet of good color, well penciled. 3d—a bird of nice,

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THE NEW SHOW in the best poultry section of the Mid-west. **SOUVENIR** Premium list of the first poultry show ever held in America mailed free to all inquirers for Milwaukee list. Write today for list.

Theo. Hewes, Secretary Indianapolis, Ind.

promising type, but not finished in neck plumage.

Silver Penciled Wyandottes, 12 singles and 1 pen. Good in type, size and color with nice penciling.

Columbian Wyandottes, 74 singles and 7 pens. A remarkable exhibit with unusually fine quality in color and with good size and type. Cocks: 1st—a good, broad, deep, nice-typed bird with fine color, but not quite as deep and full in breast as we like them. 2d—a nice, sharp, clean, colored bird, but a little lacking in breadth. 3d—a broad, deep, excellent type bird. Hens: 1st—a good, large hen with good neck and unusually well-marked tail coverts, tail a bit long and pinched. 2d—a well-set-up hen of good type and color with nice tail well spread at base. 3d—a close third, very similar in quality to second hen. Cockerels: 1st—a nice-typed, good-colored bird, but a bit small. 2d—a winner on his color, which is clean, fine, sharp and



One of the prize winning cockerels in the S. C. Black Orpington class at recent Palace Show, New York, December, 1915. Owned and bred by S. H. Andrews, Mineola, N. Y.—F. D. R.

snappy, with remarkable hackle and saddle. This bird not fully matured and comb lacks a good spike. 3d—a bird of good type and color and fair size, but weak in ear lobes. Pullets: 1st—a nice, clean type, deep and broad, with good color, tail a bit pinched. 2d—a well-typed bird with bright, snappy color and good size, a bit high and over-long as to tail. 3d—a promising pullet with nice color, good depth and breadth and a rather long tail.

Barred or Cuckoo Wyandottes, a small exhibit of 4 singles, one in each class. Barring good but type only fair, good sized birds with rather long backs for 'Dottes.

Single Comb Rhode Island Reds, 157 singles and 14 pens. Another truly remarkable exhibit with splendid, even deep rich color, good type and good size. Cocks: 1st—a beautiful bird, with fine shape and size, good length of back, good depth and breadth, rich, strong, even color; in fact good all over. 2d—a good specimen, but duller in color, a bit high stationed and coarser in head points. 3d—a good bird, but decidedly off in condition, looked as if he had crop impaction from eating shavings or something else in coop, causing acute indigestion. Hens: 1st—a fine, large hen with splendid shape and good color. 2d—a nice-colored, large, long-backed

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2,500 B. & W. Rock, S. C. White Leghorn and White Wyandotte Pullets at Attractive Prices
200 good, big, husky, snappy, breeding cockerels, March hatched and with quality hard to beat, \$2.00 each. Satisfaction guaranteed with every sale. Address H. H. Audley, Box 661, Cincinnati, Ohio

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World's Best S.C. Black Minorcas

are maintaining their reputation. At Canada's two greatest fall shows we won the following: Toronto—Cock, 2nd; Hen, 2nd; Cockerel, 1st, 2nd and 3rd; Pullet, 1st, 2nd and 3rd. At London we won every 1st, 2nd and 3rd on Cock, Hen, Cockerel and Pullet. The Cock that won 1st at Toronto was the Cockerel that won 1st at Guelph, December, 1914, and was bred and raised by me. Sale list now ready that shows you how I please my customers.

T. A. FAULDS, President of the Canadian Black Minorca Club

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continue their string of victories by adding the Palace show Blue Ribbons to their list. This being State, National and Club show in this variety, brought out the best birds in this country, winning six regular and four special prizes. At Syracuse, Allentown and Hagerstown my birds won more first and special prizes than any other exhibitor. The judges claim my birds are the best colored and shaped birds they have handled. Fine green sheen with nice yellow legs and correct mottling are a few of their good points.

If in the market for the greatest egg producers in winter at the least cost of production or fine exhibition birds, write me. Good breeding stock reasonable. Booking orders now for eggs and chicks. Don't wait, but write today.

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Everything that goes toward making fine Rhode Island Reds can be found in my flock. My birds have the type and color that is demanded by the leading judges of this country. Particular attention is given to the utility value of each and every bird and a specimen that does not make good all around will not be tolerated in my yards. Right now I have a

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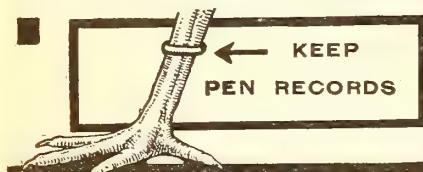
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Made in Black, White, Dark Blue, Light Blue, Pink, Red, Green, Yellow, Purple and Garnet.

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hen, but a bit high up. 3d—a nice-colored hen, but a little shy in type. Cockerels: 1st—a good large, broad, long-bodied cockerel, good, strong color, a bit dark and lacking a little in uniformity on surface of wings, rather high up on legs. 2d—a good-colored bird, but a little off on head points and with legs too close together. 3d—a good long-bodied bird of good depth, well set and good in color, is weakest in head points. Pullets: 1st—a neat-typed, fine-boned bird, heavier than she looks and a wonder in strength, richness and evenness of color; type good for her size, but an easy winner for her remarkable color which is strong all thru. 2d—a nice-colored promising pullet, but lacking in maturity and development. 3d—a good, large, nice-colored, long, deep-bodied bird.

Rose Comb Rhode Island Reds, 74 singles and 10 pens. Classes with fine quality in the winnings, some specimens lacking a little in maturity. Cocks: 1st—a beautifully colored bird with good shape and size. 2d—a nice-colored specimen with good length and good substance. 3d—a long, broad cock of good color, but a little high up on legs. Hens: 1st—a fine, large, rich-colored hen, well set and of good type. 2d—a hen with good color, good depth and length of body, but a bit weak about head and eyes. 3d—a nice large, well-colored hen, a bit off in condition. Cockerels: 1st—a well-set, remarkable cockerel, with good harmony of color all thru, size and shape good, but could stand a little more length to back. 2d—a rich, dark-colored bird, strong and vigorous, a trifle short as to back. 3d—still in the "kid" age and rather wild; a promising cockerel that hasn't arrived yet, has good size, length and color, but needs cooping and handling and some filling out. Pullets: 1st—a nice-colored typey bird. 2d—a close second with excellent color. 3d—another good quality specimen and close to the winners, not so well matured.

Rhode Island Whites, only one bird, a cockerel, shown; type and color fairly good, but he sure looked lonesome.

Buckeyes, one in each single class, quality fairly good.

Dominiques, one cockerel and one hen, color good, type fair.

Black Javas, two cockerels only, of good color and fairly good type.

Mottled Javas, two hens only, color and type fairly good.

Single Comb Buff Orpingtons, 78 singles and 12 pens. Good, rich color and nice type running thru classes. Cocks: 1st—nice large vigorous bird of splendid type and color. 2d—a close second, but not equal in head points. 3d—a good all-around cock with good breadth, but lacking in depth of breast. Hens: 1st—a nice, large, even colored hen of good type. 2d—a close second, large with good depth of body and fine rich color. 3—a fine, big hen with good color but poor in legs. Cockerels: 1st—a splendid, vigorous bird, good in body, nice, even color, fine head points. 2d—a good, well-colored bird, weak in head points and not well filled out in breast. 3d—a big rich-colored cockerel, with fair head points, not fully developed and breast a bit flat. Pullets: 1st—a splendid big pullet with good, strong color, but a little lacking in evenness; a bit dark on wings as compared with neck. 2d—a good, big, nice-typed pullet with fairly good color. 3d—a promising large bird with fair color and a bit narrow as to tail.

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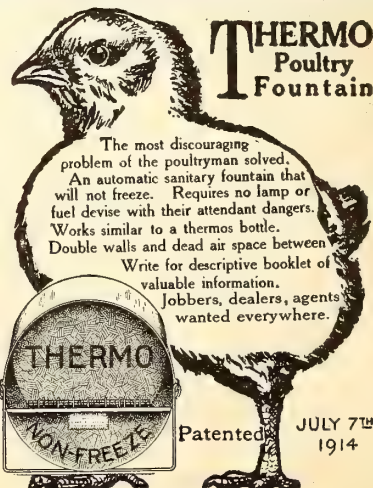
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Kulp's wonderful Rose Comb Brown, 242-egg strain; S. C. Brown, 240-egg strain; both big winners at Madison Square. Large birds, large eggs. 2 greatest strains bred.

Four customers in New York, two in Montana, one in Idaho, two in B. C., one in England and many others have written me that my Rose Comb Brown Leghorns excel all others as layers, and lay large eggs. I never had so many prizes reported as this year.

One man writes: "When it comes to Single Comb Browns you are in a class by yourself." I have most Wonderful male color. Stock for sale, all breeds.

Rose Comb White, first Madison Square, big white eggs, big birds, record of 244 eggs.

S. C. Whites—236 to 288 egg strains. No better in the world. Try them.

S. C. Red cockerels of 248 egg strain. They are the top.

White Wyandottes—228 egg line.

Barred Rocks—270 egg strain.

Eggs \$2 to \$7 per 15. Catalogue.

W. W. KULP, Box 70, Pottstown, Pa.

Single Comb Black Orpingtons, 36 singles and 4 pens. Good color and quality here, but specimens a bit coarse and Cochiny. Cocks: 1st—a good, big, black, full-feathered bird. 2d—a large well-colored bird, a little too coarse in head. 3d—large, full-feathered Cochiny hen, good color, but looks short on legs. 2d—a big, black hen, very similar to winner. 3d—a big, deep-bodied, full-feathered hen of broad, low-set, Cochiny type. Cockerels: 1st—a large, broad, deep, vigorous bird, rather coarse. 2d—a close second and similar in type. 3d—not quite so large, but follows close in line. Pullets: 1st—a remarkable pullet of generous size, breadth and depth, good color and same general type as the hens. 2d—close to first, but not quite as mature. 3d—a big, husky, mature pullet with nice color.

Single Comb White Orpingtons, 44 singles and 5 pens. We like the size



Buff Plymouth Rock cockerel, among the winners at the Palace Show, December, 1915. Winning here proves the quality of the birds owned by Sunnyside Farm, Bristol, Vt.—F. D. R.

and type here shown better than in the Blacks, some excellent quality running all thru classes. Cocks: 1st—a fine specimen with nice color and type and good all over as an Orpington. 2d—a close second of same type, but not so good in head points. 3d—a good, big, broad bird; a little coarser in type and lacking in depth of breast. Hens: 1st—a beautiful hen of nice type and color and good all thru. 2d—close to the winner, but not so good in head points. 3d—another nice bird, built along same lines and close to the winners. Cockerels: 1st—a splendid massive youngster of much promise, but not fully filled out, type good, color and condition fine. 2d—a good, close second, but not so fine in size or color. 3d—a good-sized bird of nice type, but weak in head points and shown a little off in condition. Pullets: 1st—a fine, big, white bird, well matured and good all over; shown in pink of condition. 2d—a good, broad, deep pullet of good color. 3d—not so good in condition, but an excellent specimen.

Rose Comb White Orpingtons, one cockerel and one pullet only. Small birds and a bit 'Dotty in shape; color and quality only fair.

Blue Orpingtons, 17 singles and 2



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Won at Am. Campine Club Show, Coliseum Bldg., Chicago, Dec. 1915. Silver Cocks, 1st and 5th; Hens, 1st and 2d; Pullets, 2d; Young Pen, 1st. Specials—Best Pen, Best Colored Male, Best Shaped Male and Female. On 10 entries Golden won nine premiums.

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Follow up last year's "clean-up" of Madison Square Garden by a wonderful winning at Brooklyn this year.

No more showing for us this year. Pens are now mated for the early egg trade.

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Noroton Heights - Connecticut

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Remember, you take my word for nothing. I state only official records made at National Laying Contests.

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\$8.69 worth of Eggs by BARON-ESS V, the 282-egg hen, at North American Contest, 1913-14. Four others laid 274, 271, 258 and 252 eggs. The five laid 1337 eggs, an average of 267, or \$8.21 per hen.

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Bred from our prize-winning pens. Farm raised. Every bird guaranteed. Prices reasonable. Write today.

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We will send you a formula that you can mix yourself at a trifling cost that will act as a preventative or cure for any of the above diseases. We have used many remedies, but since using this simple formula have not had a case in our flock in two years. Sent prepaid for 25 cents in silver or stamps.

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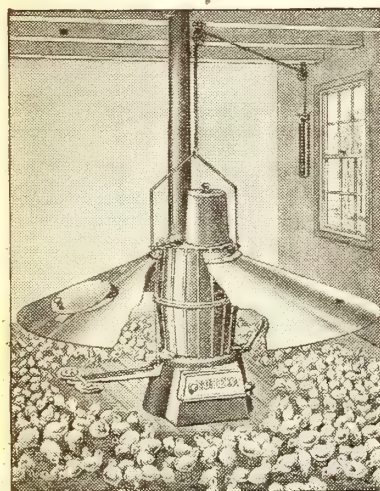
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Solid Cast Iron, Two Sizes**\$11.00 - 15.00****The Stove with the Corrugated Fire-Pot**

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Diameter of cylinder.....	11 in.	12 in.
Diameter of hover.....	42 in.	52 in.

Duplex grate, which stirs up the fire when shaken, and cleans out absolutely.

No dampers in smoke pipe to throw back gas.

Fire regulated by thermostats, which open and close check draft on top of stove.

Magazine on top, which adds to the coal capacity and heating surface.

Bottom of ash pit is raised 3 in. from the floor, and has asbestos board insulation.

Ash-pit door hinged, which prevents breakage and being misplaced; fire-pot is corrugated, which adds to the weight and strength. The stove is self-regulating and requires absolutely no attention, except coaling once in 48 hours and raking once in 24 hours.

The hover has a cast-iron ring on top, which sets firmly on top of stove, and furnished with wire hook, to which pulley may be attached to raise hood.

Burns hard coal or natural gas, as ordered.

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pens. Some excellent quality, type, size and color. Cocks: 1st—a large bird of good type and fine color. 2d—a close second in type and color, a bit flatter in front and legs in poor condition. 3d—type and color fair, shown in poor condition. Hens: 1st—a large, nice-colored hen, a bit Cochiny in type. 2d—a large, strong blue hen, but not equal of first in condition. 3d—deep, rich-colored, good-sized hen, shown in poor condition. Cockerels: 1st—a nice-colored, good-typed youngster not fully filled out. 2d—a good specimen, but coarser in head points. 3d—not equal to first two in any way. Pullets: 1st—a big, strong, rich-colored pullet, a bit coarse. 2d—only other pullet in class and shown in poor order.

Dark Cornish, 95 singles and 10 pens. Some class and some quality and more than some enthusiasm at the club meet and banquet. Cocks: 1st—a good, broad, nice-colored bird, well set and sound, with nice legs, an easy winner. 2d—a broad bird, higher in station and coarser in head points. 3d—a good, husky specimen, not so good in legs or head as first, station excellent. Hens: 1st—a good clean type, well-marked hen, with good breadth and nice all thru. 2d—a good, well-marked hen, but in poor show condition, owing to recent cold in one eye. 3d—a nice-colored hen of good type and in good condition. Cockerels: 1st—a nice broad, well-stationed youngster with a rather poor comb. 2d—a lusty youngster, shown in fine fettle and promises well; stands a little high up and needs maturity to settle him. 3d—a good all-around cockerel, well set and vigorous. Pullet: 1st—a nice-typed bird of good color and clean markings. 2d—a trim, neat, good colored pullet, close to first in type. 3d—a nice, clean youngster, with much promise, but a bit fine in bone.

White Cornish, 72 singles and 3 pens. Cornish type and size runs pretty well in these classes. A good many birds would have been much improved in appearance by conditioning and washing. Quality excellent as a whole; more coarseness of head points, particularly comb, than we like to see. Cocks: 1st—a large, heavy bird of good body, but too coarse in comb. 2d—similar in type to first. 3d—a good bird, but not well conditioned. Hens: 1st—a hen with good size, good type and good color. 2d—fairly good type, but not so large or broad as first and smaller boned. 3—a rather neat-typed bird. Cockerels: 1st—a promising youngster, but would be better for more breadth. 2d—a bit high on legs and might well have more breadth. 3d—a trifle high in station, fair in type, but not so good in color as other two. Pullets: 1st—a neat, trim young pullet of good type and breadth and nice color, but rather fine in bone. 2d—a close second of same type. 3—follows well the other two and with similar lines.

White Laced Red Cornish, 2 cocks, 3 hens and 1 pullet shown; type and size excellent and color good.

Red Caps, one pullet only shown, quality only fair.

Red Sussex, 18 singles and 2 pens. Some nice color and quality running thru classes here. Cocks: 1st—a big, strong, red bird of good type and color, a bit weak in lobes. 2d—good in type and color, but coarser in head points. Hens: 1st—a nice large hen in fairly good condition; color good but could be more even. 2d—a nice hen with good color but legs a bit off in color. Cock-

erels: 1st—a nice, clean, well-colored bird, but not fully matured and a bit wild. 2d—a large, rich-colored cockerel, a trifle coarse about the head. 3d—shown in rather poor condition, a bit high on legs and lacking in shape. Pullets: 1st—a nice, rich, dark-colored pullet of good type. 2d—a close second with good body and good color. 3d—a well-colored bird with tail a bit long and too high.

Speckled Sussex, 18 singles and 1 pen. Cocks: 1st—a fair-sized, good-typed bird with good color and poor comb. 2d—a rather coarser bird. Hens: 1st—a hen with good type and nice color, but a bit coarse about the head. 2d—a deep, broad, well-colored bird, a bit short in back. 3d—good in type, but lighter in color. Cockerels: 1st—excellent in color and promising in type and size, but rather poor in comb. 2d—head not so good as first, color, type and size fairly good. 3d—a large, husky bird of good color, but a rather high tail. Pullets: 1st—a neat bird of nice type and color. 2d—a good, large pullet, good type and fairly good color.

Partridge Sussex, 2 cocks and 2 hens shown by one exhibitor. Size good, type only fair, color and penciling good, but pretty close to Plymouth Rocks in shape.

White Faverolles, 51 singles and 6 pens. Some nice, large, well-furnished type specimens, mostly shown "as is." Cocks: 1st—a nice, large, white, good-typed specimen, well furnished. 2d—a good, large bird, comb rather poor and eyes in bad condition. 3d—a large, husky bird of good type, poor in comb and legs in bad order. Hens: 1st—a nice, deep, broad, good-colored hen of excellent type. 2d—a close second, good in type and color. 3d—a large hen with good body, but not the equal of first two. Cockerels: 1st—a good, large, deep, broad-bodied male of good color, but a bit too tight about the tail. 2d—a splendid, promising broad-bodied bird, a bit deficient in breast. 3d—good in type and color, but not so good in head points. Pullets: 1st—a good pullet, nice all over and neat in head points. 2d—a close second with good breadth and depth and nice in type and color. 3d—good, deep, broad bird, but not equal of others in head points.

Salmon Faverolles, 1 cock, 1 hen, 2 cockerels and 2 pullets shown. Type and color good. The youngsters shown not fully matured.

Buff Faverolles, 14 singles and 1 pen, all from one exhibitor. These birds are coming fine in color, type and size and show remarkable beards and muffs.

Light Brahmas, 20 singles and 4 pens. Some nice-marked birds and good Brahma type. Cocks: 1st—a nice, strong-colored bird of good type with good breadth and depth of body. 2d—a close second. 3d—a good large bird, but not equal to other two. Hens: 1st—a large, deep, broad hen of good type and nice snappy color. 2d—a nice type, but not so good in tail markings. 3d—a close third. Cockerels: 1st—a splendid bird of good type and nice sharp markings. 2d—a bigger, coarser bird, but with good Brahma type. 3d—coarser still and immature. Pullets: 1st—not fully matured, but a nice-typed bird with rich, sharp color and good markings. 2d—a promising, well-colored specimen, a bit more mature than the winner. 3d—less well developed but a good clean-cut bird.

Partridge Cochins, 2 cockerels and 2 pullets only. Quality and type good.

Black Langshans, 15 singles and 3

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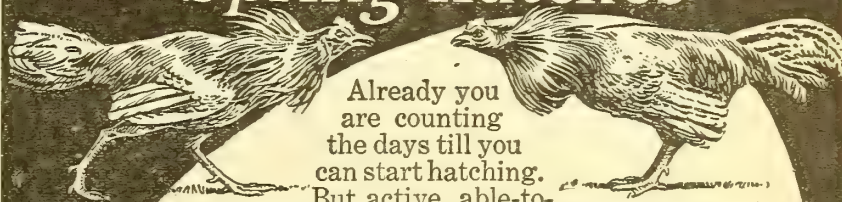
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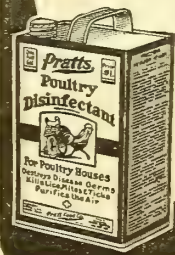
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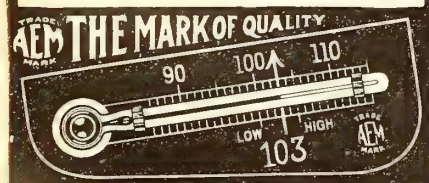
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pens. Cocks: 1st—good in color and nice type, nice large size. 2d—a good cock with nice type and station. 3d—breast and back not so good as first two. Hens: 1st—a good big hen but a bit Cochiny, back rather long and holds tail too low, giving appearance of

Study the Real Photographs to be Found in the American Poultry Journal.

By F. D. ROGERS.

We desire at this time to call the attention of our readers to the fact that with very few exceptions all pictures made by our artist, L. A. Stahmer, found in this as well as all other issues of our journal, are unretouched, showing you the picture of the bird or birds exactly as they grew.

The AMERICAN POULTRY JOURNAL was the first in its field to advance and advocate the idea of showing absolutely unretouched photographs, and I feel great credit should be given L. A. Stahmer, our artist, for the many remarkable pictures of this nature that have been and are the product of his skill and genius.

The day of the made and fixed-over picture is fast fading into oblivion, and so much the better for all interested in this great industry. The proper place to look for drawn pictures is in the Standard, and not when viewing some prize specimen; for as yet no perfect bird has ever been produced. Too often by the old method of retouching photographs the buyer would, in many instances, write for a bird that was typical of the picture shown, requiring for a small sum a fowl that the Standard describes as perfect.

We know of many cases where breeders have received letters of this nature and have informed their prospective customer that the bird they describe and wish to purchase at a modest figure, is a perfect specimen as outlined in the Standard of Perfection and shown in the unretouched photograph as a certain prize winning bird at such and such a show.

The pictures in this issue are a reliable guide for all amateurs and other breeders living a distance from the national shows, giving them a great opportunity to compare their own birds with these particular winners. The AMERICAN POULTRY JOURNAL guarantees all pictures made in our art department being as true to nature as the camera can depict.

a Cochin cushion. 2d—a nice-typed, good-colored bird with good size and good carriage. 3d—Close to second. Cockerels: 1st—a good typed bird of good color and in fine fettle. 2d—a nice typed, good-colored, good-sized cockerel, carries tail a bit too far forward. 3d—a good, large bird, but not shown in as good condition. Pullets: 1st—a rich-colored pullet of good type and much promise. 2d—a large, well-developed pullet, a trifle flat in back. 3d—

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immature pullet with good color, but stands knock kneed.

White Langshans, 2 cocks, 2 hens, 3 cockerels, 3 pullets and 1 pen. Type and color fairly good, legs off color in some specimens. All shown "as is" and not in best of condition.

Single Comb Brown Leghorns, 55 singles and 5 pens. Also 1 cockerel mating and 1 pullet mating pen. Cocks: 1st—nice, clean Leghorn type with fine color. 2d—a good bird but coarser. 3d—not shown in best of condition. Hens: 1st—splendid in type and color. 2d—a close second. 3d—another close one. Cockerels: 1st—good color and fair type, tail a bit too high. 2d—good, bright, well-marked bird, but rather high in tail. 3d—similar to first two, but not so good in head points. Pullets: 1st—a nice, neat bird, fine in type and color. 2d—a close second, but not quite up to first in shape and carriage. 3d—a good, clean, neat bird, but with higher tail.

Rose Comb Brown Leghorns, 23 singles. Only one rather immature bird in pullet class. Other classes showed nice type and color with plenty of quality.

Single Comb White Leghorns, 145 singles and 15 pens. Hot classes, good fashionable quality and some remarkably fine specimens. Cocks: 1st—a good all-around Leghorn with excellent type and color. 2d—a close second. 3d—good, vigorous bird of good type but coarser in head points. Hens: 1st—nice, neat type hen with good color and excellent carriage. 2d—a little larger hen of good type and color. 3d—a larger bird, not quite so good in type but with excellent quality. Cockerels: 1st—a splendid bird in shape, style and color, beautifully furnished. 2d—not quite so good, but a nice, clean bird of good type. 3d—a good specimen, but not trained, too wild and stands with tail too high. Pullets: 1st—a splendid pullet, good all over, fine type and excellent carriage. 2d—a good close second. 3d—another close one.

Single Comb Buff Leghorns, 41 singles and 3 pens. Some nice type and fine, rich color shown in these classes. Cocks: 1st—a good, rich, even colored bird of nice type, but a bit coarse about the head. 2d—a good, well-colored bird; carries tail higher. 3d—small, neat bird of fairly good type and fair color. Hens: 1st—a nice, clean, even colored hen of good type, but carries tail a bit high. 2d—a good specimen, but still higher in tail. 3d—a close third. Cockerels: 1st—good in color and type, but beefy in comb. 2d—color good but tail too high up. 3d—a promising specimen of good type. Pullets: 1st—a remarkable pullet in type and even color of rather light shade. 2d a richer colored specimen of good type. 3d—another rich colored pullet and a close third.

Rose Comb Buff Leghorns, 2 hens, 2 cockerels and 2 pullets. These show good quality and run well in type and color.

Single Comb Black Leghorns, 18 singles and 3 pens. All classes run well in type, style and color. This variety shows splendid black color well contrasted with excellent bright yellow legs and the exhibits ran well in modern Leghorn shape and size.

Silver Duckwing Leghorns, 1 hen, 1 cockerel and 1 pullet of fairly good quality.

Single Comb Black Minorcas, 42 singles and 4 pens. Strong classes and some excellent specimens shown. Cocks: 1st—a good, large cock with good color

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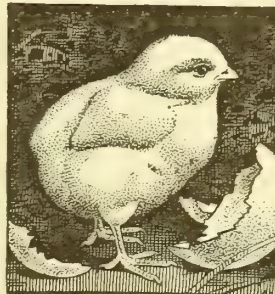
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and type. 2d—a close second with rich color and good type. 3d—a good-colored, large bird, but rather wild. Hens: 1st—a big fine hen, good color and excellent type. 2d and 3d—close to the winner. Cockerels: 1st—a fine, large specimen of good type and color. 2d—a close second. 3d—a bit coarser type. Pullets: 1st—a good, large-bodied, well-typed bird with fine color, well furnished and well set. 2d—not quite so good as first and rather pinched in tail. 3d—a nice, large promising pullet.

Rose Comb Black Minorcas, 12 singles and good type and quality running thru the classes.

Single Comb White Minorcas, 1 cock, 2 hens and 2 cockerels, good in size and type, but rather poor in condition.

Single Comb Blue Andalusians, 22 singles and 1 pen. Color, type and quality good.

Single Comb Anconas, 69 singles and 9 pens. An excellent exhibit. Cocks: 1st—strong in type and color. 2d—good, rich bird, but coarser. 3d—similar in type to first and a good third. Hens: 1st—good in type and color.

2d—lighter, but of good type. 3d—a good third. Cockerels: 1st—a nice type with good color. 2d—good in color and type, but higher in tail. 3d—neat type and good color. Pullets. 1st nice, clean type and excellent color. 2d—good in shape, size and color, tail a bit high. 3d—smaller, tail up and color light.

Rose Comb Anconas, 17 singles. Type, color and size running well thru the classes.

Silver Campines, 47 singles and 3 pens. Cocks: 1st—a good, clean type bird with good color and good substance. 2d—a good bird, but not equal in tail, head points coarser and condition a bit off. 3d—a small, neat bird, needs more size and weight for a cock. Hens: 1st—a good, substantial hen with nice type and strong color. 2d—another good strong type with good color. 3d—a clean, sharp-colored hen of good type and a close third. Cockerel: 1st—a strong-colored bird of fine type. 2d—a good specimen but not in any way equal to first. 3d—a promising cockerel. Pullets: 1st—good in type and color and good in size. 2d and 3d

—both good pullets and close to the winner.

Golden Campines, 21 singles and 1 pen, good type, color and quality in the winners. Some immature specimens in young.

Houdans, 51 singles and 3 pens. Some remarkably fine birds in type, color and crests in the winnings. Abundant quality running thru all classes.

White Houdans, 21 singles and 2 pens. This variety is coming fast and some fine birds in type, color and quality were shown.

White Crested Black Polish, 11 singles and 1 pen. Good quality in all classes.

Silver Spangled Hamburgs, 13 singles and 1 pen. Quality in classes a bit mixed; some nice birds in the blue. Young winners decidedly immature.

Golden Penciled Hamburgs, 12 singles and 1 pen, all by same exhibitor. Good type and quality. From comment noted we expect to see a bigger entry and more exhibitors next season.

Game classes small but quality good. Buttercups, 84 singles and 8 pens. Large entry was brought out by meet

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Championship Female; first Hen; first Pullet on three entries.

Coliseum Chicago, Dec., 1915

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Silver Cup for Best Display; Silver Cup for Best Colored Male; 1st old Pen; 3rd young Pen (1 entry) 1st, 4th Cock; 3rd, 5th Hen; 2nd, 4th Crkl.; 2nd, 3rd Pullet. 2 entries in each class.

SPECKLED SUSSEX

First young Pen; 3rd, 4th old Pen; 3rd Hen; (no Cocks entered) 4th Cockerel—one entry.

ALL WINNERS FROM OUR OWN PENS

These great victories, together with 39 winners, Championship Specials, etc., at Coliseum last year and our ten firsts and ten seconds at Port Huron and Grand \$75.00 Special for Best Cock, Cockerel, Hen, Pullet and Pen in the whole show—place our strain the leading strain on TWO CONTINENTS.

Exhibition, Breeding and Utility Cocks, Cockerels, Trios and Pens at Reasonable Prices.

Above winners in our breeding pens. NEW MATING LIST February 1st. State plainly your wants in first letter. Our address has been changed from Marysville to

COBURN'S RED SUSSEX FARMS, Route 3, St. Clair, Mich.

H. H. & E. M. Coburn, Owners

Electric Stops at Maxwell

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of the American Buttercup Club. Interest in this breed appears to be on the increase. The exhibits certainly show better quality, greater uniformity and considerable improvement in combs. There is distinct advancement in uniformity of type, color and markings and as a rule the specimens show better substance.

Among other varieties shown were: White Silkies, White Sultans, Quail Plymouth Rocks (don't look like a variety to us), Golden Plymouth Rocks (decidedly shy in color and lacing), White Anconas (which look like old-fashioned White Leghorns), Buff Minorcas, and White Egg Americans—these last-named fowls have fairly good size, white lobes and look like oversized Leghorns with small combs. Small exhibit of Guinea fowl. Water fowl classes small but with a good representation of varieties. Bantam classes small but good and with some 23 varieties represented. Pet stock, cat show and cage bird exhibits good in quality, variety and interest.

Yes, it was a worth-while show.

AWARDS AT PALACE SHOW.

BARRED ROCKS—C. H. Latham, Lancaster, Mass., 1 pit-bred cock, pit-mated pen, 1-2 pit-bred chl., 1-4 hen, 5 pit.; Johan Rudolph Jensen, Great Neck, L. I., 2 pit-bred cock; C. L. Rivenburgh, Rockville Center, N. Y., 4 pit-bred cock, 4 chl-bred hen; L. B. Resseguie, Millers, N. Y., 5 pit-bred cock, 5 pit-bred chl., 1 cock, 2 chl., 2 pit.; T. H. Hazlett, Newburgh, N. Y., 1 hen; E. Brown, White Plains, N. Y., 2 chl-bred hen, 4 chl-bred pit.; Haldie Nicholson, Leominster, Mass., 3 chl-bred hen, 5 chl-bred pit.; Redrick & Van Orden, Cold Springs Harbor, N. Y., 5 chl-bred hen; Ira Beebe, Sayville, L. I., 3 pit-bred chl.; Capt. Selah B. Howell, Highlands, N. J., 4 pit-bred chl.; Frank P. Seaman, Mineola, N. Y., 1 chl-bred pit.; J. A. Fausner, Brooklyn, N. Y., 2 chl-bred pit., 4 chl.; Henry D. Riley, Strafford, Pa., 3 chl-bred pit., 2 hen, 3 pit.; 2 pit-mated pen; 1 chl-mated pen; Frank Perall, Winstead, Conn., 2 cock, 5 hen; P. A. Canavan, Philmont, N. Y., 3-5 cock; W. B. Gurney, Greenlawn, N. Y., 4 cock; Frank D. Ham, Livingston, N. Y., 3 hen, 3-5 chl., 1 pen; Samuel Willets, Roslyn, L. I., N. Y., 1 chl.; J. C. Smith, Pleasantville, N. Y., 1 pit.; Bear Brook Poultry Farm, Wakefield, Mass., 4 pit.

WHITE ROCKS—Lewes P. Doerhoefer, Anchorage, Ky., 1-2 cock, 1-2 chl., 1-4-5 hen, 1 pit., 1-2-3-4-5 pen; Wm. P. Dauchy, Troy, N. Y., 3 cock, 5 pit.; B. R. Smith, Wantagh, L. I., N. Y., 4 cock, 3 hen, 5 chl.; Benj. Schofield, Firthcliffe, N. Y., 5 cock; Elm Poultry Yards, Hartford, Conn., 2 hen; Branford Farms, Groton, Conn., 3-4 chl.

2 pit.; Saml. P. Greene, W. Sayville, N. Y., 3 pit.; Minch Bros., Bridgeton, N. J., 4 pit.

BUFF ROCKS—River Head Farm, Old Mystic, Conn., 1 cock, 1 pen, 5 pit.; Danl. S. Riker, New York City, 2-5 cock, 2 pit.; Geo. B. Shellenberger, W. Point, Pa., 3 cock; F. W. Dawson & Son, Williamsport, Pa., 4 cock; Jas. H. Vincent, Hazelton, Pa., 1-3 hen, 4 chl., 4 pit.; C. W. Everitt, Huntington, N. Y., 2 hen; Eugene Sites, Elyria, O., 4 hen; H. Augustus Eiler, Syracuse, N. Y., 5 hen, 2 chl.; John Schofield, 1 chl., 3 pit.; Frank D'Avella, Woodhaven, L. I., N. Y., 3 chl.; Sunnyside Poultry Farm, Bristol, Vt., 5 chl.; P. W. Noyes, New London, Conn., 1 pit.

COLUMBIAN ROCKS—Wilburtha Poultry Farms, Trenton Junction, N. J., 1-2 cock, 3 hen, 3-4 chl., 1 pen; J. M. Jones, Hornerstown, N. J., 3 cock; E. D. Broadt, Hellam, Pa., 4 cock; F. G. Bean, Collegeville, Pa., 5 cock, 2-5 hen, 2 pen; Geo. F. Leach, Cornwall, N. Y., 1 hen; T. J. Enslin, Hackettstown, N. J., 4 hen, 4 pit, 3-4 pen; Chas. K. Free, Peekskill, N. Y., 1-2-5 chl., 5 pit.; Edwin J. Barney, Syracuse, N. Y., 2 pit.

PARTRIDGE ROCKS—Saml. J. Childs, McKeesport, Pa., 1-4 cock, 3-5 hen, 3 chl., 1 pit.; Thos. W. Schofield, Belleville, N. J., 2 cock; Wm. C. Walters, Blairstown, N. J., 3 cock, 3 pen, 1 hen, 2 chl., 4 pit.; Forest Poultry Farm, Glen Cove, L. I., N. Y., 5 cock, 2 hen, 2 pit., 2 pen, 4 chl.; H. B. Hark, Glendale, O., 4 hen, 3-5 pit., 1 pen; C. A. Browning, Apponaug, R. I., 1 chl.; J. P. Myers, Ligonier, Pa., 5 chl.

SILVER PENCILED PARTRIDGE ROCKS—Egbert C. Merrell, Lee, Mass., 1 cock, hen, pit.

DR. HEASLEY WINS AGAIN

with his EGG BASKET STRAIN OF S. C. BUFF LEGHORNS in the world's hottest competition in laying contests and at the December, 1915

Chicago Coliseum and World's Fair Show

At Panama-Pacific with 4 entries in 4 classes we won three ribbons. At Chicago, against the world's best breeders, we won 104 points to 31 of nearest competitor, winning championships in all shape and color specials. 37 birds entered; 34 under ribbons. At Official Egg Contests made records: 211 in 9½ mos.; 215 in 11 mos.; 230 in 11½ mos. Bred for eggs but fit to show. Egg-bred cockerels at \$3.00 and \$5.00. Show stock for anywhere. My kind pay.

DR. L. E. HEASLEY

Box A

HOLLAND, MICHIGAN



1st Hen, Chicago Coliseum, Dec., 1914



130
Egg Incubator
and 130-Chick
Brooder—

Natural-Finish
California
Redwood

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Wisconsin Wins in big Hatching Contests Every Year

Year after year, these unbeatable Wisconsins have proved their superiority over all other machines regardless of price. Below are a few of the record breaking hatches taken off by owners of this famous Wisconsin \$10 outfit.

30 Days' Trial — 10 Years Guarantee
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1st Year
Mrs. J. McMahon, Veedsburg, Ind., won in Missouri Valley Farmer Hatching Contest, hatching 125 chicks from 125 eggs.

2nd Year
Mrs. C. B. Armitage, Atwater, O., won in the Successful Farming Contest, getting 181 chicks from 181 eggs in two hatches.

3rd Year
Mrs. J. W. Mize, Vaughans Mills, Ky., won in the Successful Farming Contest, hatching 208 chicks from 208 eggs, 2 settings.

4th Year
Mr. F. H. Lewis, Montrose, Pa., won in Successful Farming Contest, getting 96 chicks from 96 eggs in one setting.

5th Year
Mrs. C. C. Rich, Russiaville, Ind., won in the Successful Farming Hatching Contest, getting 94 chicks from 94 eggs—the first hatch she ever made.

These records prove beyond a doubt you can't get bigger, better hatches even if you pay twice the price. So why pay more?
or 180-Egg Incubator and 180-Egg Chick Brooder, Both for \$12

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(5)



SILVER WYANDOTTES—Geo. W. Weed, East Lee, Mass., 1-2-4 cock, 3 hen, 3 pen, 2 chl., 4 plt.; L. C. Vannier, Belmont, Cal., 3 cock; Jas. F. Hughes, Peekskill, N. Y., 5 cock, 4 chl., 1-5 plt.; F. S. Hubbard, Meriden, Conn., 1-5 hen, 4 pen; M. H. Leidy, Souderton, Pa., 2 hen, 3-5 chl.; 1 pen; Frank P. Seaman, Mineola, N. Y., 1 chl., 2 plt.; Dr. H. R. Bristol, Bennington, Vt., 3 plt.; J. Frank Van Alstyne, Castleton, N. Y., 2 pen.

GOLDEN WYANDOTTES—Peter McGregor & Son, Marcellus, N. Y., 1 hen, 1 chl.; Frank P. Seaman, 1 plt.

WHITE WYANDOTTES—T. A. Havemeyer, Mahwah, N. Y., 1 cock, 1 chl., 2-3 hen, 4 plt., 1-3 pen; Owen Farms, Vineyard Haven, Mass., 2-5 cock, 4 pen; A. J. Fell, West Point, Pa., 3 cock, 5 hen, 4-5 chl., 5 pen; Geo. H. Pollard, Greenbush, Mass., 4 cock; White Wyandotte Poultry Yards, 1 hen, 3 chl., 3 plt.; West Mountain Poultry Yards, Naugatuck, Conn., 4 hen, 1-2 plt.; Jas. W. Hagar, West Field, Mass., 2 chl.; Horace Havemeyer, Stamford, Conn., 5 plt.; A. S. Harle, Washington, N. J., 2 pen.

BUFF WYANDOTTES—Geo. B. Wells, Troy, N. Y., 1 cock, 3 plt., 3-4 pen; G. Arthur Cook, Easthampton, Mass., 2 cock, 3-5 hen, 3-4 chl., 4-5 plt.; Jas. A. Northey, Toronto, Canada, 3 cock; L. M. Barber, Greenwich, N. Y., 4 cock, 2 hen; Chas. S. Johnson, Easthampton, Mass., 5 cock; T. S. Hewke, Middletown, N. Y., 1 hen, 1-2 plt., 2 pen; Stuart A. Howland, Granville, N. Y., 4 hen; Fred Rockwood, South Brookline, N. H., 1-2 chl.; J. H. Clark, West Pawlet, Vt., 5 chl.; E. B. Fallows, Scottsville, N. Y., 5 pen.

BLACK WYANDOTTES—Helen B. Bean, Collegeville, Pa., 1 cock; C. H. Nesbitt, Riverhead, L. I., N. Y., 2 cock, 1-3 hen, 1-2 chl., 1-2 plt.; 1 pen; Frank C. Sites, Bay Village, O., 3 cock, chl., plt.

PARTRIDGE WYANDOTTES—Sheffield Farm, Glendale, O., 1-2-4 cock, 1-2 hen, 1-2 pen, 1-3-4 chl., 1-2 plt.; Paul W. Doll, New York City, 3 cock, 4 hen, 4 plt.; Geo. R. Latham, Mineola, N. Y., 5 cock; Wm. R. Mollineaux, Jr., Hempstead, L. I., N. Y., 3 hen, 5 plt.; Chas. H. Wood, Greenlawn, N. Y., 2 chl.; D. S. Strong, Middle Haddam, Conn., 5 chl., 3 plt.

SILVER PENCILED WYANDOTTES—Horace Havemeyer, 1-2 cock, hen, chl., 2-3 plt., 1 pen; A. L. Hathaway, Abington, Mass., 2 cock, 3-4 chl., 1 plt., 1 pen.

COLUMBIAN WYANDOTTES—Wilburtha Poultry Farm, 1-5 cock, 1-5 plt., 1 hen, 3 pen; Bettin Farm, Morristown, N. J., 2 cock, 5 hen, 5 chl.; A. G. Warner, Whitesboro, N. Y., 3 cock, 4 pen; Levi A. Ayres, Granville, N. Y., 4 cock, 2 hen, 3-4 chl., 2-5 pen; Sunnybrook Farm, Eatontown, N. J., 3 hen, 1 chl., 1 pen, 2-3-4 plt.; Jas. T. Lohmes, Valley Falls, N. Y., 4 hen, 2 chl.

BARRED COOKEE WYANDOTTES—Romy Singer, Morganville, N. J., 1 cock, 1 chl., 1 plt.

S. C. RHODE ISLAND REDS—Lester Tompkins, Concord, Mass., 1 cock, 1-5 hen; E. M. Dutton, Newfane, N. Y., 2 cock, 4 pen; F. M. Osborne, Jr., Washing-

ton, Pa., 3 cock; I. W. Bean, So. Braintree, Mass., 4-5 cock, 3 chl., 1-4 plt.; S. G. McLean, So. Glastonbury, Conn., 1 hen, 5 pen; Spring Farm Poultry Co., Littleton, Mass., 2 hen, 3 plt.; Edw. A. Camp, Waterbury, Conn., 3 hen; Fred H. Stillwagon, Allentown, Pa., 4 hen; Houck & Alt, Buffalo, N. Y., 1 chl.; Maplecroft Farms, Pawling, N. Y., 1 chl., 5 plt.; Adirondack Poultry Farm, Corinth, N. Y., 4 chl.; Old Honesty Farms, Slaton, Pa., 5 chl.; Dr. A. B. Carey, Cherry Valley, N. Y., 2 plt.; China Hanchett, Verona, N. Y., 2 pen; John B. Hendrickson, Ridgewood, N. Y., 3 pen.

R. C. RHODE ISLAND REDS—Fred H. Stillwagon, 1 cock, 1 pen, 2-3 hen, 1 chl., 1-4 plt.; Wm. J. Moran, Amityville, L. I., N. Y., 2 cock, 4 hen; D. R. Hone, Sharon Springs, N. Y., 3 cock, 5 plt.; E. M. Dutton, 4 cock; W. E. Mountney, Elmsford, N. Y., 5 cock, 5 hen; Dr. A. H. Carey, 1 hen, 5 chl.; Lester Tompkins, 1 chl., 2 plt.; J. E. Davidson, Jr., Hempstead, N. Y., 2 chl.; Dr. H. E. Cheesbrough, Greenwich, N. Y., 3 chl.; A. Eugene Alden, W. Bridge-water, Mass., 3 plt.; H. L. Greene, Shelburne, N. Y., 2 pen; D. Brandreth, Ossining, N. Y., 3 pen.

S. C. BUFF ORPINGTONS—George E. Bessom, Mansfield, Mass., 1 cock, 1-2 hen, 1-2 chl., 1-2 plt.; Wm. J. Moran, Amityville, L. I., N. Y., 2 cock, 4 hen; D. R. Hone, Sharon Springs, N. Y., 3 cock, 5 plt.; E. M. Dutton, 4 cock; W. E. Mountney, Elmsford, N. Y., 5 cock, 5 hen; Dr. A. H. Carey, 1 hen, 5 chl.; Lester Tompkins, 1 chl., 2 plt.; J. E. Davidson, Jr., Hempstead, N. Y., 2 chl.; Dr. H. E. Cheesbrough, Greenwich, N. Y., 3 chl.; A. Eugene Alden, W. Bridge-water, Mass., 3 plt.; H. L. Greene, Shelburne, N. Y., 2 pen; D. Brandreth, Ossining, N. Y., 3 pen.

S. C. BLACK ORPINGTONS—C. S. Purdy, Stamford, Conn., 1-2 cock, 1-2 plt., 2 hen, 2-5 chl., 1 pen; E. R. Collins, Estate, Richmond Hill, L. I., 3 cock; R. L. Broome, Westfield, N. J., 4 cock, 1-5 hen; John Weigel, Richmond Hill, L. I., 5 cock; S. H. Andrews, Mineola, N. Y., 3 hen, 3 chl., 3 pen, 3-5 plt.; Wm. J. Georgius, Baltimore, Md., 4 hen, 4 plt., 2 pen; Wm. M. Lynn, Bethlehem, Pa., 4 chl., 4 pen.

S. C. WHITE ORPINGTONS—Owen Farms, 1-2-4 cock, 1-2-3-5 hen, 1-2-4 chl., 1-5 plt., 1-2-3 pen; Wm. C. Fenstermaker, Slaton, Pa., 3 cock, 3-5 chl.; Chas. Switzer, Norwich, N. Y., 5 cock; Elm Poultry Yards, Hartford, Conn., 4 hen; John A. Stewart, Short Hills, N. Y., 3 plt.; Elizabeth M. Delaford, Plainfield, N. J., 3 plt.; Ralph E. Simmons, Pittsfield, Mass., 4 plt.

BLUE ORPINGTONS—E. R. Collins Estate, 1 cock, 1 chl., 3 hen; Pastime Farm, Allentown, Pa., 2 cock, 2 plt.; R. H. Wilcox, Hempstead, L. I., 3 cock, 3 chl.; B. C. Roecker, Phillipsburg, N. J., 1 hen, 1 plt.; N. B. Hartman, Grantwood-on-Hudson, N. J., 4-5 hen, 2 chl., 1 pen; Theo. D. Doll, Richmond Hill, L. I., N. Y., 2 pen.

DARK CORNISH—Ward & Chilver, Pennington, N. J., 1-4 cock, 3 hen, 2-5 chl., 1 plt.; Frank H. Clement, Hempstead, L. I., N. Y., 2 cock, 1 chl., 3 plt.; Dr. W. A. Low, Catonsville, Md., 5 cock, 5 hen, 4 pen.

pen; Hugh McCormick, Charlestown, W. Va., 1 hen, 3-4 chl., 4 plt.; Tar River, Poultry Farm, Rocky Mount, N. C., 4 hen; Courtland H. Smith, Warrenton, Va., 2 hen, 1 chl., 3 pen; J. W. Harvey, Baltimore, Md., 1 pen.

WHITE CORNISH—Mountville Farms, Mountville, Va., 1-2-3-4 cock, 1-3-4-5 hen, 1-2 chl., 1-2 pen; S. R. Smith, White Cornish Farm, 5 cock, 2 hen; Jacob Eberly, Dallastown, Pa., 4 chl.; E. W. Rogers, Hempstead, N. Y., 5 chl., 5 plt.; Frank H. Moore, Roselle, N. J., 3 pen.

RED SUSSEX—Edw. J. Weipert, 1 cock, 1 pen, 4 hen, 3 chl.; Chestnut Red Farm, Hackensack, N. J., 2 cock, 2 pen, 4-5 chl., 1-3 plt.; D. M. Green, Cherry Valley, N. Y., 3 hen, 1 chl.; Albert H. Emch, Toledo, O., 1 chl.; Saml. G. Ayres, Granville, N. Y., 2 chl., 5 plt.; E. O. Cornforth, Slatersville, R. I., 2-4 plt.

SPECKLED SUSSEX—E. K. Conrad, Hackensack, N. J., 1-2 cock, 1-2 hen, 1 chl., 1 pen, 5 plt.; G. F. Cleghorn, Mineola, L. I., N. Y., 3 cock, 3-4 hen, 4 chl.; Howard L. Davis, New Egypt, N. J., 2-3 chl., 1-2 plt.; S. B. Heaton, Monroe, N. Y., 5 chl.

PARTRIDGE SUSSEX—Dr. H. W. Conrad, Hackensack, N. J., 1 cock, 1-2 hen.

WHITE FAVEROLLES—D. Lincoln Orr, Orr's Mills, N. Y., 1 cock, 2-3 chl., 3-4 plt., 5 pen; Pastime Farm, 2 cock, 2 pen, 1 hen; Dictograph Poultry Farm, West Nyack, N. Y., 3-5 cock, 3-5 hen, 1-4 chl., 1-5 plt., 1-3-4 pen; Geo. H. C. Hole, Cornwall, N. Y., 4 cock, 4 hen; Benj. Schofield, 2 hen; Geo. F. Leach, Cornwall, N. Y., 5 chl.; Thos. Chandler, Firthcliffe, N. Y., 2 plt.

LIGHT BRAHMAS—Minch Bros., 1-2 cock, 1-2 hen, 4 chl., 1 plt., 1 pen; Fred S. Barton, Norwood, Mass., 3 cock, 3 plt., 2-3 chl.; Rudolph Fuehrer, Jr., Brooklyn, N. Y., 4 cock, 4 hen; Chas. L. Post, Great Barrington, Mass., 3 hen; C. H. King, Scarborough, N. Y., 1 chl.; Norman B. Foster, Marathon, N. Y., 2 plt., 2 pen; S. Edwin Megargee, Jr., Cranford, N. J., 4-5 plt.; D. P. Shove, Fall River, Mass., 4 pen; Saml. Willets, 3 pen.

BLACK LANGSHANS—Alfred Blackburn, New Rochelle, N. Y., 1 cock, 4 hen, 3 chl., 2 plt.; Elm Poultry Yards, 2 cock, 2 hen, 4 chl., 4 plt., 1 pen; J. F. Robinson, So. Weymouth, Mass., 3 cock, hen, pen, 2 chl., 1 plt.; H. E. Rogers, Cleveland, O., 1 hen, 1 chl., 3 plt.; E. C. Vail, Verbank, N. Y., 2 pen.

WHITE LANGSHANS—Pastime Farm, 1-2 cock, 1-2 hen, 2-3 chl., 2-3 plt., 1 pen; Chas. W. Weightman, Carlisle, Pa., 1 pen, 1 plt.

S. C. BROWN LEGHORNS—Rockefeller & Hubbard, New Haven, Conn., 1 cock, 1 pen, 1-2 hen, 1-3 chl., 1-2-4 plt.; C. Sydney Cook, Jr., W. Newton, Mass., 2 cock; Brick House Farms, Glen Mills, Pa., 3 cock, 5 plt.; Harold B. Dorman, Bridgeport, Conn., 4 cock; Geo. F. Gifford, Cambridge, N. Y., 3 hen; Fred M. Farrant, Kalamazoo, Mich., 4-5 hen; 4 chl.; Frank E. Arner, Lehighton, Pa., 2 chl.; Chas. O. Miers, Flicksville, Pa., 5 chl.; A. S. Christman, Trumbauersville, Pa., 3 plt.; A. O. Preston, Concord, N. H., 1 chl.-mated pen; Geo. H. Burgott, Lawtons, N. Y., 1 pit-mated pen.

R. C. BROWN LEGHORNS—Wm. T. Liddell & Son, Greenwich, N. Y., 1-4 cock, 1-3 chl.; The Gale Place, Hamden, Conn., 2-3 cock, 1-3-4-5 hen, 2 chl.; A. S. Christman, 2 hen; W. H. Williams, Plainfield, N. J., 5 chl., 3 plt.; Kerlin Farm, Pottstown, Pa., 4 chl.

S. C. WHITE LEGHORNS—Wilburtha Poultry Farms, 1-3 cock, 2 hen, 1-2-3 chl., 4-5 plt., 1-3 pen; W. H. Williams, Grafton Centre, N. Y., 2-4 cock, 5 hen, 4 chl., 2 plt.; 2-5 pen; Elm Poultry Yards, 5 cock, 3 hen, 1 plt.; Locust Grove Farm, Eaton-



INSTANTANEOUS—AUTOMATIC—ELECTRIC

(Patent Pending) THE MOST POWERFUL EGG TESTER ON THE MARKET

All other testers are "tallow dips" in comparison! No other tester even approaches it in power, speed, safety and convenience. The very instant an egg is placed, the powerful Mazda-Tungsten lamp shoots ALL its light into and through it; not a ray of light is wasted; the egg gets it ALL. Equipped with dry batteries; no other current used. WIDE OPEN "MONEY-BACK" GUARANTEE.

"LITTLE WONDER" No. 2—2 lights (like cut) \$3.00 each, prepaid
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Send for descriptive circulars and testimonials; they will convince you! Here's just one; from the great Ancona breeder:—"It is just what I have been looking for; would not take ten times the price of it, if I could not get another." H. Cecil Sheppard, Berea, Ohio, June 17, 1915.

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PREMIER WHITE WYANDOTTES "THE KIND YOU'LL EVENTUALLY BUY"

For the third year in succession demonstrated that they are the undisputed **Champions of Canada** at Guelph, December, 1915, (6,000 birds in the open classes, no pens shown), for the third time in succession they won every cup offered on White Wyandottes, including best cock, hen, cockerel and pullet, best display, etc., while they were again awarded for the second time in succession, **championship for the best male, any breed**, and this year more points than all strains in Canada and United States combined. This show, you know, is the **Madison Square Garden of Canada**. We also won 1-2-3 cocks, 1-2-3 hens, 1-3 cockerels, 1-2-3 pullets, sweepstakes for best four birds of any breed on our **Light Brahmas** in the best class of years.

Saunders & Williams

(Life Members A. P. A.)

Ingersoll, Ontario, Canada, Box A.

SID. SAUNDERS, President Canadian White Wyandotte Club—Dr. Ralph Williams.



WHITE PLYM. ROCKS NEW YORK PALACE SHOW WINNERS

"WHITENED ON BLUE GRASS RANGE"

Make new New York record by winning all five first prizes and 1-2-3-4-5 pens, with 14 pens competing; besides winning 1-2 cock, 1-4-5 hen, 1-2 cockerel, 1st pullet. Our birds also won several specials. They also won at Louisville and the Kentucky State Fair 6 first, 4 second, 4 third, 2 fourth and 4 fifth prizes this season.

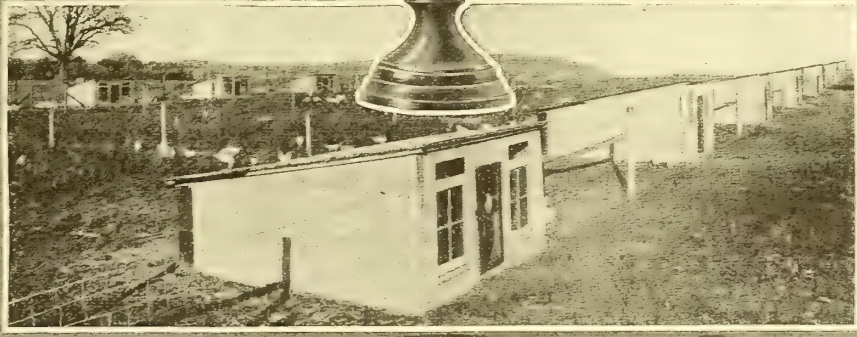
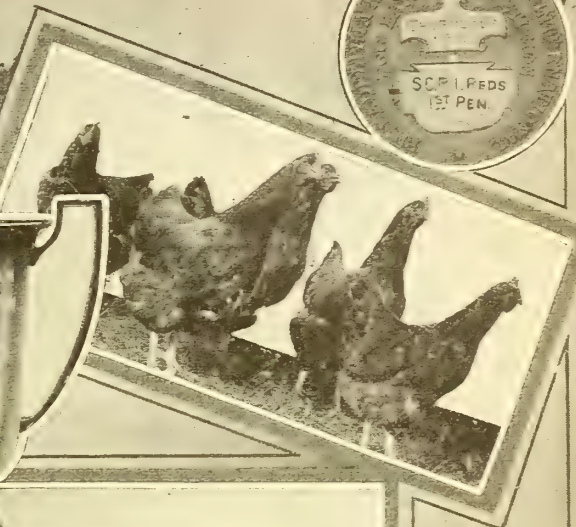
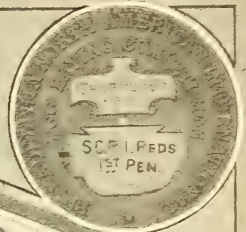
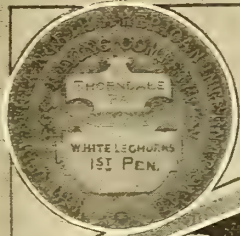
18 SELECTED MATINGS

All headed by and containing one or more winners. Eggs for hatching, \$1.00 each. No stock for sale until fall.

"Bella Vista" Farm

LEWES P. DOERHOEFER, Prop.

Dept. A, Anchorage, Ky.



The Pennsylvania Poultry Farm
"Certified Layers"
Lancaster, Penn.

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ENGLISH 200 EGG STRAIN
S.C. WHITE LEGHORNS WHITE WYANDOTTES
S.C. RHODE ISLAND REDS BUFF ORPINGTONS

town, N. J., 1 hen; Walter B. Shipman, Montoursville, Pa., 4 hen; Moore Bros., Moscow, N. Y., 3 ptt.; Dune Alpine Poultry Farm, East Hampton, N. Y., 4 pen.

S. C. BUFF LEGHORNS—Monmouth Farms, Freneau, N. J., 1-2 cock, 1-2 chl., 1 hen, 1 pen, 2 ptt.; Wilburtha Poultry Farms, 3 cock, 3 hen, 4 chl., 4 ptt., 2 pen; C. I. Davis, Waterville, Me., 4 cock, 5 chl.; Pastime Farm, 5 cock, 4 hen, 1 ptt., 3 pen; Harvey G. Richardson, Etra, N. J., 2 hen; Orange Poultry Yards, Mansuet, L. I., N. Y., 5 hen, 5 ptt., 3 chl.; Glenwood Poultry Yards, West Caldwell, N. Y., 3 ptt.

R. C. BUFF LEGHORNS—J. E. Skellie, Cambridge, N. Y., 1 hen, 2 chl., 1 ptt.; Adolphe Grether, Jersey City Heights, N. J., 2 hen; M. H. Willis, Brattleboro, Vt., 1 chl., 2 ptt.

S. C. BLACK LEGHORNS—Turtle Point Farm, Saratoga Springs, N. Y., 1-2 cock, 1-2 hen, 1-2 pen, 2-4 chl., 2-4 ptt.; Bradford Bros., 3 cock, 3 pen, 3-4 hen, 1-3 chl., 3-5 ptt.; Pastime Farm, 5 hen, 5 chl., 1 ptt.

S. C. BLACK MINORCAS—Meadow Lawn Farms, 1 cock, 1 hen, 2-3 chl., 1-3-4 ptt.; Clarence E. Rich, Ossining, N. J., 2 cock, 3 hen, 3-4 pen; Jas. H. Vincent, 3 cock, 4 hen, 2 ptt.; Harry H. Lott, Richmond Hill, L. I., N. Y., 4 cock; Lauern Poultry Yards, Bridgeton, N. J., 5 cock, 5 ptt., 4 chl.; N. N. Greiner, Rheems, Pa., 2 hen, 2 pen, 1 chl.; Sun-den Poultry Yards, Roselle, N. J., 5 hen; Meadow Brook Poultry Farm, Sharon, Conn., 5 chl.

R. C. BLACK MINORCAS—Norman Bentley Gardiner, Stapleton, N. Y., 1 cock, 1-4 hen, 2 ptt.; E. Romary, Ridgewood, N. J., 2 cock; Cora A. Shoemaker, Granville Summit, Pa., 3 cock, 3 hen, 1 chl., 1 ptt.; Henry D. Barto, Manlius, N. Y., 2 chl.

S. C. BLUE ANDALUSIANS—E. D. Bird, Greenwich, Conn., 1 cock, 1 pen, 2 hen, 3 chl., 5 ptt.; J. E. Bliss, Clinton, Conn., 2-3 cock, 3-4 hen, 1-5 chl., 3-4 ptt.; V. H. Council, Warrenton, Va., 1 hen, 2 ptt.; Shadylane Poultry Farm, Avonia, Pa., 2 chl., 1 ptt.; Alfred Homes Lewis, Congress, N. Y., 4 chl.

S. C. ANCONAS—Mrs. W. B. Kent, Coatesville, Pa., 1-3-5 cock, 1 chl.; Geo. W. Cisco, Patterson, N. J., 2 cock, 2 pen, 1 hen; J. O. Somers, Bedford, O., 4 cock; Geo. N. Barstow, Oneonta, N. Y., 2-4 hen, 3 pen, 2 ptt.; Beardsley & Houston, Sidney Centre, N. Y., 3 hen; Elias C. Vail, Verbank, N. Y., 5 hen, 2 chl., 1-4 pen, 1-5 ptt.; Clarence C. Judkins, Delphos, O., 3 chl.; Bettin Farm, 4 chl., 4 ptt.; Wm. S. Rathbun, Jamestown, N. Y., 5 chl.; Pastime Farms, 3 ptt.

R. C. ANCONAS—R. W. Van Hoesen, Franklinville, N. Y., 1 cock, 3 chl.; Wm. S. Rathbun, 2 cock; Lewis C. Strang, E. Weymouth, Mass., 3 cock, 1 chl.; J. O. Somers, 4 chl., 1 hen, Dr. J. H. Foquet, Oil City, Pa., 2 chl., 2-5 ptt.; C. H. Mills, Warren, O., 4 chl., 3-4 ptt.; Geo. N. Barstow, 1 ptt.

SILVER CAMPINES—Homestead Campine Farm, Wayland, Mass., 1-4 cock, 1-2 hen, 1-5 chl., 2-4 ptt., 2 pen; Jos. Chadwick, Jr., Newburgh, N. Y., 2 cock, 4 hen, 5 ptt., 3 pen; The Martling Hennerly, Ridgefield, N. J., 3 cock, 2-3 chl., 3 ptt., 1 pen; M. R. Jacobus, Ridgefield, N. J., 5 cock, 3 hen; Feronia Way Poultry Yards, Mt. Tabor, N. J., 5 hen; Rara Avis Farm, Lake Grove, L. I., N. Y., 4 chl.; J. Dever Rogers & Son, Jr., Oxford, N. Y., 1 ptt.

GOLDEN CAMPINES—The Martling Hennerly, 1 cock, 1 pen, 3 hen, 3 chl.; C. A. Hettema, Passaic, N. J., 2 cock, 2 ptt., 1 chl.; M. R. Jacobus, 3 cock, 1 hen, 5 ptt., 5 chl.; T. O. Perry, Flushing, N. Y., 2 hen, 2 chl., 3-4 ptt.; G. F. Cleghorn, Mineola, L. I., N. Y., 4 chl., 5 ptt.

HOUDANS—Crossroads Farm, Litchfield, Conn., 1 cock 5 ptt.; Dr. H. E. Dunne, Silver Spring, Md., 2 cock, chl., pen, 1 hen, 4 ptt.; Capt. C. E. Arnold, Babylon, L. I., N. Y., 3 cock; G. Harvey Springman, Williamsport, Pa., 4 cock, 3 hen; W. F. Bast, Phillipsburg, N. J., 5 cock, 4 hen, 1-3-5 chl., 1-2 ptt., 1 pen; W. H. Bassett, Cheshire, Conn., 2-5 hen, 4 chl., 3 ptt.; Harold Molter, Hempstead, L. I., N. Y., 3 pen.

WHITE HOUDANS—Goermann's Houdan Yards, Grantwood, N. J., 1 cock; Stuart A. Howland, Granville, N. Y., 2 cock, chl., pen, 1-3-5 hen, 4 ptt.; Eugene A. Smith, Vauxhall, N. J., 3 cock, 2-4 hen, 1-3 chl., 1-2-3-5 ptt., 1 pen.

WHITE CRESTED BLACK POLISH—John Lock, Baltimore, Md., 1 cock, 1 chl., 2 hen, 2 ptt.; J. Entwisle, Rochester, N. Y., 2 cock, 2 chl., 3 hen, 3 ptt.; Wendover Farm, Bernardsville, N. J., 3 cock, 1 hen, 1 pen; R. E. Lee, Kensington, Md., 1 ptt.

SILVER SPANGLED HAMBURGS—A. H. Leventritt, Tivoli-on-Hudson, N. Y., 1 cock, hen, ptt.; Mrs. Ed. Brown Jenks, Yonkers, N. Y., 2-3 hen, 2-3 ptt., 1-2-3 chl.; John Kerwin, Broad Channel, L. I., N. Y., 4 hen.

BUTTERCUPS—H. Esmay & Son, Dorloer, N. Y., 1 cock, hen, chl., 3 pen; Chantecier Poultry Plant, Ulster, Pa., 2 cock, 2 hen, 4 chl., 4 ptt., 2-4 pen; Harry L. Brown, W. Springfield, Mass., 3 cock; F. E. Ray, E. Haddam, Conn., 4 cock; Edward S. Hiden, Sharon Station, N. Y., 5 cock, 3 ptt.; C. Sydney Cook, Jr., W. Newton, Mass., 3-5 hen; Claude A. Carpenter, Asheville, N. Y., 4 hen; J. Harry Eddy, Saratoga Springs, N. Y., 2 chl., 2 ptt., 5 pen; Geo. G. Brook, Fall River, Mass., 3 chl.; Mrs.

Hattie D. Reed, Marcellus, N. Y., 5 chl., 1 ptt.; Dr. E. E. Reynolds & Son, Ballston Lake, N. Y., 5 ptt.; C. D. Sharpe, Oxford, N. Y., 1 pen.

WHITE PEKIN DUCKS—Branford Farms, Groton, Conn., 2 old drake, 5 old duck, 3 pen; Aldham Poultry Farm, Phoenixville, Pa., 1 old drake, 3 old duck, 3 young drake, 1 young duck, 1 pen; Miss Minora Pomeroy, Scotch Plains Poultry Farm, Scotch Plains, N. J., 3 old drake, 5 young drake, 3 young duck, 2 pen; Wm. Ziegler, Noroton, Conn., 4 old drake, 4 old duck, 2 young drake, 2 young duck; Groton Farms, Westbury, L. I., 1-2 old duck; Wendover Farm, Bernardsville, N. J., 1-4 young drake, 4-5 young duck.

AYLESBURY DUCKS—Edwin H. Morris, Sparkhill, N. Y., 1-2 old drake, 1-2 old duck.

ROUEN DUCKS—Aldham Poultry Farm, Phoenixville, Pa., 1 old drake, 3 old duck, 1 young drake, 3 young duck; Edwin H. Morris, Sparkhill, N. Y., 2 old drake, 1-2 old duck, 2 young drake, 1-2 young duck.

INDIAN RUNNER DUCKS—Edwin H. Morris, Sparkhill, N. Y., 1 old drake, 1 old duck; P. Albert Ackerman, R. F. D. No. 2, Allendale, N. J., 2 old drake; Thomas H. Mettler, East Millstone, N. J., 3 old drake, 3 old duck, 1 young drake, 1 young duck; H. B. Ellis, West Hanover, Mass., 2 old duck, 2 young duck; Aldham Poultry Farm, Phoenixville, Pa., 2 young drake, 3 young duck.

TOULOUSE GEESSE—Edwin H. Morris, Sparkhill, N. Y., 1 old gander, 3 old goose; Miss Minora Pomeroy, Scotch Plains Poultry Farm, Scotch Plains, N. J., 2 old gander, 4 old goose, 1 young gander, 2 young goose; Roy E. Fardee, Iship, N. Y., 3 old gander, 5 old goose; Pastime Farm, Allentown, Pa., 1-2 old goose, 2 young gander, 1 old goose.

EMBDEN GEESSE—Mrs. John H. Stickles, Claverack, N. Y., 1-4 old gander, 1 old goose, 1-3 young gander, 1-2 young goose; Pastime Farm, Allentown, Pa., 2 old gander, 2 old goose, 2 young gander; Daniel P. Shove, Fall River, Mass., 3 old gander, 2 old goose.

The American Poultry Association Convention, 1916.

Cleveland wants that convention and, as a civic center, gets what it wants—nearly always. It is being backed in the fulfillment of this desire by the Cleveland Chamber of Commerce and the Forest City Fair Association, led by the Cleveland Poultry Breeders' Association. These organizations are working hard to bring the next American Poultry Association meet to the Sixth City. We fully realize that any city, laying claim to so important a gathering must be possessed of certain requisites to give weight to its claim. Among the most important of these requisites are *accessibility* and *attractiveness*. Cleveland possesses these to a high degree, no city of our country of equal population excelling. As to the first requisite, *accessibility*, we state a fact when we say that fifty per cent of the population of the United States and Canada lies within a radius of five-hundred miles of Cleveland, a majority of which population can reach that city within a night's ride as the wheels turn in these days of travel. Situated upon the southern shore of beautiful Lake Erie with its steamships leading to the north and its railroads radiating to the east, west and south, Cleveland clinches her claim to accessibility in a way that no rival city can dispute and but few excel. We believe that we are not exaggerating when we say that the very heart of poultrydom of this country lies within the area described above. This is important when we apply the rule that suggests the thought of "the greatest good to the greatest number." We think no one will take issue with us on Cleveland's accessibility. As to its attractiveness in all lines, we defy any city of equal population or wealth to excel. We have neither the time nor space in this article to even enumerate the many advantages to be derived from the standpoint of pleasure and recreation, that Cleveland offers to the traveler and sight-seer who comes within her borders. Approaching by steamer from the north the very sight

of Cleveland's homes and factories stretched along old Erie's shores for a distance of twenty miles or more is impressive to say the least. The quite trite saying "that distance lends enchantment" does not wholly apply to the sixth city; for it is upon a close study of its civic affairs that the stranger is most impressed with its greatness. The independence and progressiveness of its citizens have led to the establishment of many things of interest and pleasure within her confines. The half hundred miles or more of splendid boulevards leading into twenty or more beautiful parks aggregating 2,073 acres; the fine municipal institutions for the feeble and infirm; the famous Warrensville Farm; its wonderful bridges, feats of engineering skill; its influential civic bodies and fine public buildings; its gigantic steel plants and other manufacturing institutions; its unsurpassed street railway system—all stand as lasting monuments to the civic pride that pervades the entire citizenship from the lowest to the highest and which has culminated in the founding of so many things that interest visitors. The entire poultry industry of Ohio is with Cleveland and backing her efforts to secure the 1916 convention. Much more might be said in advocacy of the Sixth City's claim, but space forbids more at this time. What is wanted of every American Poultry Association member is to consider, honestly, these claims and when the proper time comes, vote for Cleveland and at the same time realize that by so doing he is doing a good thing for the elevation of the poultry industry of America.

OUR COVER.

"We Lead, Others Follow."

We wish to call attention to the beautiful cover design adorning this issue. It is the work of Leonard Karl Stahmer, son of our artist. We believe that it is a most appropriate design for the season. In fact, to our mind, it is the best that has ever graced the cover pages of any poultry journal in this country. Young Mr. Stahmer is to be congratulated on this fine piece of work and for the thought and the idea this cover conveys to our readers. "We lead, others follow," the motto of the AMERICAN POULTRY JOURNAL seems to fit this cover design in a most peculiar way. The New Year being ushered in by the new born baby, and the first baby chick in the incubator are leaders, still other days and other chicks will follow and we do not know what the future may bring. Whether we will have days of happiness and if our chicks are going to turn out into prize winners remains to be seen, but our hopes are set for the best. The AMERICAN POULTRY JOURNAL promises its readers during the coming year many more treats in the line of cover designs and beautiful illustrations, and we thank them for the generous compliments they have bestowed on our previous work.

Life is as serious as we make it. What finer asset for right living than a plentiful stock of Good Cheer? It is one of the best appetizers known, a recommended digestive agent, a guaranteed beautifier and an absolutely sure business booster. Most of us need to laugh a little more and worry a little less. Abraham Lincoln said, "If I did not laugh I should die and every one of you need this medicine as much as I do."

Horticulture for Poultry Keepers

Conducted by Thos. F. Rigg, Iowa Falls, Iowa.



THESE Winter days are good days. It is real Winter. The snow is piled high and the northwest winds sweep the land, seemingly searching for the plants underneath their covering, and trying, too, it seems to take the very heart out of the trees and the shrubs. But let the winds howl as they will. Who cares? Certainly not the tender plants which are sleeping peacefully in their well-covered Winter beds, nor the fruit trees which moan as tho they were feeling keenly the icy blasts which would destroy them, when, in fact, they are only playing "make believe" and care nothing for these attacks upon them. The sap is down in the roots, safe from all harm, beneath the covering of leaves and straw and snow. In the poultry house the feathered beauties are singing as tho a breath of the Spring air had reached them, and how happy they seem to be as they make the straw fly, saying "thank you" each day for the care we have given them, by giving us a goodly number of eggs. Each time I go into the houses to feed them or to visit with them, they seem to tell me as best they can, and in a very convincing way, too, that they are glad.

The bees are very quiet now in their well-protected hives, each live with its Winter covering looking like a small snow bank.

Within, the hearth fire burns brightly and we find the Winter days and nights delightful. In the cellar is a bountiful supply of apples and cider and in the store room an abundance of popcorn. Sitting before the open fire with the lights turned low or not showing at all, with a mellow glow from the fire place over all, we are doing much orcharding and gardening these days and evenings, as we sip cider and eat of luscious Grimes Golden and Delicious apples, and well-buttered popcorn.

It is a good time to "take stock" and to be honest with ourselves and to admit our errors and shortcomings. And it is the time, too, when we naturally resolve to do our work better the coming year than we did it the last. So we are orcharding and gardening every day now. If even a small part of our resolutions are carried out, we will do better next season than ever before. And how earnestly we do mean to do just that!

I read with interest your department in American Poultry Journal and write to inquire if in your opinion it would be all right to fill in around grape vines that have been planted for about eight or ten years and the roots have grown to a large size so it would be a job to raise them.

As I am raising the grade of the place about one foot, do you think it would be injurious to the vines to fill around them, or will it be necessary to raise them to the new grade?
W. G. Jamison.
Missouri.

It will not injure the grape vines to fill in around them, as you propose, provided you prune the vines well, cutting any and all side branches up to about

two feet from the present ground line, and when you begin filling in, take two or three (three would be better) four-inch drain tile, and set them within a foot of the base of each vine, having them project several inches above the surface of the ground when you have completed the filling. This will allow the air to get to the roots, and in a few years the vines will have thrown out new sets of roots above the old ones, when the tile may be removed.

* * *

I have an interesting letter from A. H. Hollis, of Arkansas, in which he tells of the orcharding conditions in that state and goes on to say at some length that during this last season, thousands and thousands of barrels of apples produced there were sold at a loss. Mr. Hollis is very sure that the chief cause of this condition is the greed of the railroads and express companies. Mr. Hollis has given a text from which I could preach a very large sermon. But I will refrain from doing so.

My correspondent, together with a

majority of the apple growers of Arkansas, is sound asleep and does not seem to even slightly grasp the situation. It is not because of high transportation charges by railroads and express companies that each year great quantities of apples are sold at a loss or allowed to rot unsold in Arkansas. Not at all. It is because the growers are not organized, and that the selling end of the business has not been properly considered by the grower. That is all there is to it.

* * *

If the Arkansas apple growers were organized as are the apple growers in the Hood River, Oregon district, Arkansas apples would top the market, for

Poultry House Vegetable Gardening

Grown by my Forcing Roots

Grow in your Poultry houses with my selected roots, luscious Asparagus, crisp Rhubarb, succulent Witloof, Chicory or French Endive and grand Sea Kale. I have roots of the famous "Orchid Lettuce"; forces a beautiful pink color. No trouble to grow these crops in winter. 100,000 plants of Everbearing Strawberry. Superb variety.

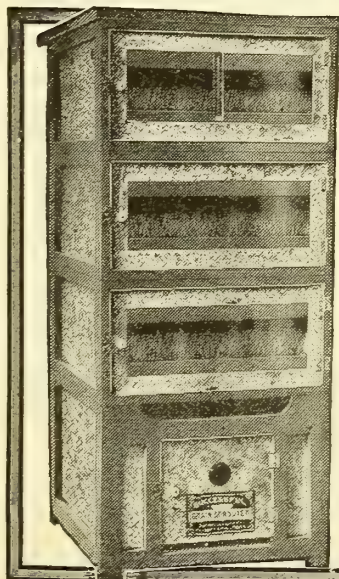
Warren Shinn, Forcing Root Specialist, Woodbury, N. J.

Poultrymen! Berries Will Pay Your Feed Bills

Plant your waste spaces to Allen's true-to-name berries. People are always willing to pay top prices for them. Allen's plants are hardy, healthy and heavy-bearing. Many varieties adapted to your soil, climate and markets; Packed fresh for shipment: We have over 300 acres in small fruits exclusively. Our 1916 Book of Berries describes each variety, and tells clearly how to select, plant, etc. 48 pages, 12 plates in natural colors. Send for your free copy today.



The W. F. Allen Co., 106 Market St., Salisbury, Md.



Turn Your Idle Hens Into Winter Egg Producers

WHY allow your hens to loaf when you can make them give you eggs a-plenty right at the time when prices are highest? Feed sprouted grain—crisp green feed that you can make yourself for only 15c a bushel with the "Successful" Grain Sprouter. Make three bushels of tempting egg-making feed from one bushel of oats, wheat or rye—increase the egg yield at least 50%—and at same time save 1/3 feeding cost. Write for catalog and 1916 offer we make on the

"SUCCESSFUL" SECTIONAL ALL-STEEL GRAIN SPROUTER

Made with double steel walls—metal trays—nothing in it to warp, shrink, swell or mold the food. Fireproof. Lasts a lifetime. Large glass doors. Made in sections so you can add more sections as your needs grow. There's a size for your needs whether you keep 50 or 600 hens. Thousands of poultry raisers say they would not be without this wonderful food maker. The newest, most reliable construction ever made in a grain sprouter. Not only turns idle hens into industrious layers but supplies feed for growing chicks—protects health—prevents chick loss. Booklet "How to Raise 48 Out of 50 Chicks" 10 cents.

Write today for catalog and full details of 1916 offer
DES MOINES INCUBATOR CO., 561 Third St., Des Moines, Iowa

some of the finest and most beautiful apples grown are produced in Arkansas.

Col. Richard Dalton, President of the Missouri State Board of Horticulture, some years ago found conditions in his state the same as those now existing in Arkansas, and went to work organizing the growers into a selling association. With this accomplished he found no more trouble in selling all high-grade apples produced in the state at good prices. Col. Dalton now has 8,000 apple trees. Not long ago in one of his letters, he said: "I have a very large place, and before I die I shall have every foot of it planted to fruit. When I am gone these orchards will take care of my family."

Col. Dalton is now too busy selling high-grade apples, well boxed and barreled, at profitable prices to find time to abuse railroads and express companies.

* * *

Frank Kent, of Kansas, has an orchard of apples containing 108 trees. He

Trees Ten
Shrubs Cents
Roses Each

Everything needed to beautify your home and garden, direct from Nursery at one price, 10c. One million fruit and ornamental trees (3 to 4 ft.), shrubs and vines, to be sold under guarantee of first-class stock, true to name, free from disease, or money refunded without question. We can give highest bank references. Illustrated catalogue listing our big variety, and nothing over 10 cents. FREE.

POMONA NURSERIES, 133 GRANGER AVE., DANVILLE, N. Y.

Strawberries

(SUMMER AND FALL BEARING AND ALL SMALL FRUIT PLANTS)



Strawberries and all Small Fruit Plants mean big and quick profits for you at small outlay of money.

We are headquarters for Summer and Fall Bearing Strawberry Plants, Raspberries, Blackberries, Gooseberries, Currants, Grapes, Fruit Trees, Roses, Shrubs, Eggs for Hatching, Crates, Baskets, Seed Potatoes, Asparagus, etc. Catalog free.

L. J. FARMER, Box 636, Pulaski, New York

STRAWBERRIES

Give the Quickest, Biggest and Surest Profits of Anything You Can Grow

The work is so easy and simple that even beginners make big profits from the start. Our free book tells how.

Kellogg's Everbearers

produce big crops of big, fancy berries from June until November. Light freezing does not affect their fruiting.

The berries are in great demand. Price ranges from 30 to 45 cents per quart. Three months after plants are set, your profits begin. Our free book tells the rest.

A Kellogg Strawberry Garden

will add beauty, pleasure and profit to your home. Get our free book and learn how to supply your entire family with delicious strawberries the year round without cost.

Great Crops of Strawberries and How to Grow Them, the best and most complete strawberry book ever written.

Fully explains the Kellogg Way. 64 pages of common sense, actual experience, strawberry facts, pictures galore. Kellogg's free service and Kellogg's Endicott Plants insure your success. Our book is worth its weight in gold—costs you nothing. Send for copy today. A postal will do.

R. M. KELLOGG CO.
Box 325
Three Rivers, Michigan



sold his 1915 crop for \$1,450. This is \$300 an acre. The buyer picked and packed the apples. Mr. Kent drew the apples to the railroad station. That beats raising grain—even in Kansas.

* * *

One of the best kept and most profitable apple orchards in the Central West is that of Miss Minnie Avery, of Council Bluffs, Iowa. Miss Avery has eight acres of trees of popular kinds. Her 1915 crop was sold to a St. Paul buyer at prices higher by far than her neighbors received for their crops.

* * *

If you are a fruit grower and are not keeping bees you are missing many dollars and a lot of fun. The bees help to make bigger crops of fruit and besides, yield a big profit per hive.

* * *

George W. Hanna, of Greencastle, Ind., seventy years old, celebrated his birthday last Fall by going out to his farm and gathering fifty bushels of Vandiver Pippin apples from a tree that is eighty-one years old. The tree was planted by his father-in-law in 1834. This is another very good reason for believing that Putnam County is one of the best fruit-growing regions in a great state, noted for the high quality of fruit produced each year.

* * *

William Barrett, who practices law in Pratt, Kan., and who goes out to his apple orchard when he is tired of thinking of other people's troubles, played with his orchard for a number of years. Last season he came to the conclusion that it was not creditable to him to produce only 300 to 500 bushels of apples from a twenty-acre orchard. So he got busy and sprayed the trees thoroly, and pruned and cultivated them. Result—3,000 bushels of choice apples which he sold at several times more per barrel than he used to get for his poor fruit.

* * *

The rabbits are plentiful here, and owing to the deep snow, it is hard to fence them out of the orchard, where they do much damage to young trees, unless the trees are well protected. It is quite a task to properly protect the trees. Last Fall I painted a number of young trees with sulfoide, in order to test the merits of this preparation. So far the trees have not been injured, altho the rabbits are numerous in the orchard.

* * *

In answer to my request I have received wild crab apples from several states. The largest and finest were sent by L. J. Demberger, of Indiana, who found the fruit growing in a dwarf

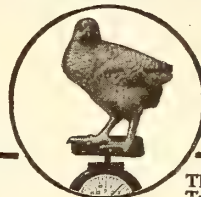
tree on top of a high and dry bluff. I shall secure some scions from this tree and use them on a seedling tree I have.

* * *

Howard P. Hoag, of New Hampshire, in his letter wherein he advises me he has sent me samples of a wild crab-apple growing on his father's farm, says:

"Father has offered to give me a piece of land containing about eighteen acres, which have been told by successful apple growers is ideal land for apples. I am interested in fruit growing and have decided to accept the offer and when thru school next year to settle down as an orchardist. What varieties would you recommend me to plant in this apple orchard?"

I would make the orchard two-thirds McIntosh Red. This apple is of high quality and beautiful in appearance. It is in demand in Boston and New York



Start Right

There Will Be No Bowel Trouble When Feeding

Blatchford's Milk Mash

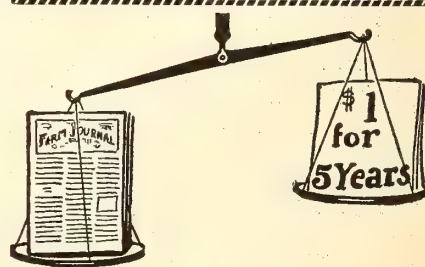
Raise 100% Hatch in Record Time

Don't take chick chances. After they are five weeks old, add 10% fresh corn-meal to the mash and you have the best growing food made, and you make it.

Ask us how to get 32% increased weight on your Spring Chickens in 12 days. It's a simple matter.

For sale at all dealers or

Blatchford
Calf Meal Factory
Waukegan Illinois



There is no Comparison

You cannot measure the value of the Farm Journal by the price.

A circulation of 1,000,000 a month, and long term subscriptions, make the low price possible.

For 38 years Farm Journal has been the originator. It has led the way in showing the farmer how to get the most from land and stock. The first farm paper to protect the buyer, it is the leading medium from which to buy. Helpful, cheerful, interesting. Sold strictly upon value to the reader. Money back any time you're not satisfied. \$1 brings it for 5 years.

Send today for free sample of Farm Journal and free copy of Poor Richard Almanac for 1916.

The Farm Journal

169 Washington Square, Philadelphia

1/2 COST

and more eggs if you use



Succulenta Tablets

Winter green food is costly, troublesome and contains harmful fibre. Succulenta Tablets are cheaper, safer and better than green food. No trouble at all. Simply dissolve it in drinking water. Watch your fowls thrive and lay more eggs. 100 large tablets by mail 50c. Large can, 250 tablets, \$1.00 postpaid anywhere. Results or money back.

THE SUCCULENTA CO.
P. O. Box 405-1 Newark, N. J.

50¢

markets in excess of the supply. The tree is remarkably hardy and is better suited to your climate than most any other really good apple. I note by a report that last week McIntosh Red was selling at \$4.50 to \$5 per barrel in New York. I am not sure that the Baldwin is quite hardy enough for your place, but you can consult your state authorities as to this. If it is, I would make the remainder of the orchard that variety. In no event, plant twenty acres of one kind of apples. You will need at least two varieties in order that there will be proper pollenization. I am sure twenty acres so planted will be exceedingly profitable. To be young and

possessed of health, and a twenty-acre apple orchard! Why, young man, you should shout for Joy!

* * *

In answer to F. S. Cook, Missouri:

The Hicks grape is a seedling found growing in a Concord vineyard in Michigan some years ago. It is of the Concord type. "The Grapes of New York," published by the state, says that on the State Experimental grounds, the Hicks is more prolific than the Concord and a better grower. On the piece of hill-side ground where you wish to plant about 150 grape vines, I would advise the planting of Worden, with say ten

each of Campbell's Early, Niagara and Delaware. The Worden is a better grape in every way than the Concord and Hicks—fruit being larger, earlier and of better quality.

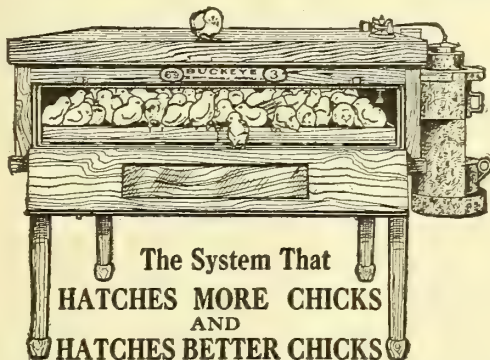
* * *

The Indiana apple show last month was a hummer. I asked Theodore Hewes to give me a report of it for this department, but have not received same.

Letters asking for all sorts of information come to me, but I received one the other day that was answered in a very few words and which will not be given here. It was from a man in North

"Buckeye"

"The Best Incubator Made"



The System That
HATCHES MORE CHICKS
AND
HATCHES BETTER CHICKS

Than any other incubator regardless of size, price or method.

Recognized by the largest breeders and the largest poultry supply dealers as the safest and surest incubator ever built. Every machine a guaranteed success.

FOR THE BIG BREEDER the 600 egg "Buckeye" will produce more chicks and stronger chicks than any big incubator you ever owned. We guarantee that. Operated with one lamp on a quart of oil a day and guaranteed to work perfectly in any temperature down to freezing.

FOR THE SMALLER BREEDER any of the other six sizes are guaranteed to do everything the big machine will do. Even the little 60 egg "Buckeye" at \$7.50 will hatch more chicks and better chicks than any other incubator—no matter what its cost.

It's the Best Incubator Made

Not the cheapest incubator but the best.

It's the incubator that is built UP to a standard and not DOWN to a price. That's why the "Buckeye" is sold by more reliable dealers than all the others combined—that's why so many of the large, successful breeders will use no other. The "Buckeye" is sold by more than two thousand of the largest poultry supply dealers and there are over 400,000 in successful operation! Let us send you a list of some of the big breeders who use the "Buckeye" and their reasons for using it. Let us send you the names of the largest dealers and their reasons for selling it. Let us tell you about the wonderful success of the "Buckeye" system and why so many have tried to imitate it. The "Buckeye" is made in seven sizes—60 eggs to 600 eggs.

600 Eggs	-	-	\$50.00
200 Eggs	-	-	17.50
110 Eggs	-	-	12.50
60 Eggs	-	-	7.50

SOLD ON 40 DAYS TRIAL

and guaranteed to hatch every hatchable egg.

Try a "Buckeye" in the same room with any other incubator and if it doesn't hatch more chicks and better chicks the first time you try it we'll take it back.

Write for "Buckeye" Catalog and Proof of "Buckeye" Superiority

The Buckeye Incubator Co.

501 Euclid Ave.

Springfield, O.

Note: Prices are a little higher west of the Rockies on account of freight rates.

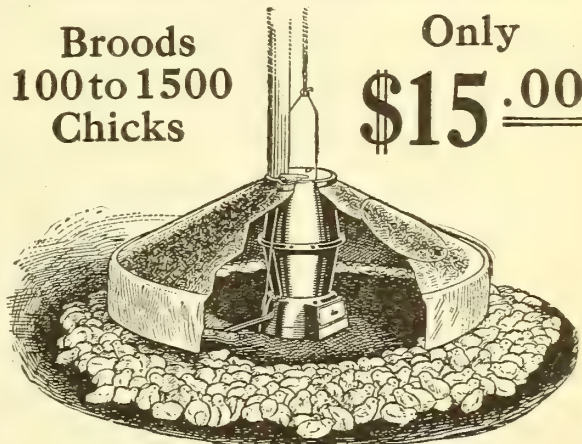
The Standard

COLONY BROODER

Broods
100 to 1500
Chicks

Only

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**The Greatest
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Ever Invented**

Self Feeding—Self Regulating—Everlasting. Heavy cast iron stove that requires coaling but once in 24 hours in any temperature.

Fifty-two inch hover that will positively brood 1500 newly-hatched chicks.

30 Days Free Trial

The "Standard" Colony brooder is the most practical brooding device ever invented. It will do anything and everything that any other brooder will do and do it better. It is infinitely more satisfactory than brooders selling at twice the price. We are so positive that it can not fail that we will permit you to try one for thirty days and

**Write Your Own
Money-Back Guarantee**

Sold and guaranteed by dealers everywhere at \$15.00. Insist on the "Standard" and beware of imitations. Write us for a "Standard" Catalog and we will tell you how to grow three chickens where one grew before.

Carolina who has a wife and an apple orchard. Now there is nothing strange or dishonorable in the possession of a wife and an apple orchard, but this man is in a pickle because of these possessions. His wife, a Northern girl, has

tired of the South and is going back North, so the man must give up his wife or his apple orchard. And he wants me to advise him what to do! A wife and an apple orchard are two of the best things in the world to have(and I

do hope that my correspondent will be able to retain both of them.

* * *

The fear that the Northwestern apple crop would glut the central markets this season was not well founded, the larger part of the crop being exported. The truth is that the bulk of the Northwestern crop will always go as export apples. If Central West growers would produce better apples, by properly spraying, cultivating and pruning, they could hold the markets against all comers.

* * *

Taylor Bros., of Illinois, bought an apple orchard which had been a selling proposition for all the land agents in the country. The orchard was sadly neglected for years. It is now four years since the Taylors got "badly beaten," as the neighbors expressed themselves at the time of the sale. But the purchasers in 1914 and 1915 took a big crop off the place, which netted them over \$300 per acre!

* * *

E. E. Baldwin, Missouri, writes that he is working over a block of Duchess apple trees to Grimes Golden and King David. Mr. Baldwin thought he was buying two varieties of Winter apples, and you can imagine his surprise and disappointment when he found he had been beaten in the trees. Should you ever have this experience, do not destroy the trees, but do as Mr. Baldwin is doing, top work the trees to some desirable variety. You will get fruit so much sooner, and just the variety you desire.

* * *

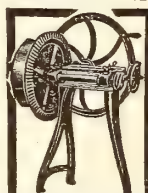
We hear a great deal about the bigness of the farm operations and orchard plantings in the Northwest and are apt to think that progress elsewhere is very slow in comparison. But in apple tree planting, the good old state of Virginia is just now a leader. It has become freely known that there is no better apple land in the country than in this state. Many Northwestern growers are

BONE CUTTER FREE

Every poultry-raiser needs a "Dandy" Green Bone Cutter. Cut green bone keeps fowls healthy, vigorous and productive. It is a wonderful food for increasing the egg supply and for pushing the growing chicks. The "Dandy" prepares the bone fresh every day—just right for feeding to best advantage. It feeds the bone to cutters automatically and is the easiest running, fastest cutter made. Write for catalogue.

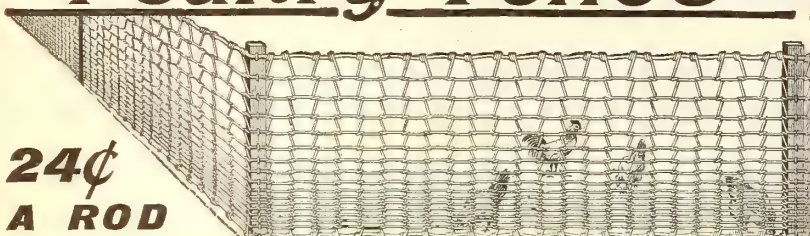
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FOR
15 DAYS**



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24¢
A ROD





KITSELMAN POULTRY FENCE is made of Open Hearth Basic steel wire, drawn, annealed and galvanized in our own mill. A strong, durable, closely-woven, RUST RESISTING FENCE that will last for years, requires fewer posts, no base board or top rail. **NOT A FLIMSY NETTING BUT A POULTRY FENCE.** Stretches perfectly and stands up on the posts like a farm fence—does not sag, bag or buckle. You can't beat Kitzelman Fence for quality, and it's **Shipped From Our Factory**

Direct to You and Your Neighbors Too

Our big free Catalog shows many styles and heights of Poultry Farm and Lawn Fence at prices that will keep a nice saving in your own pocket where it belongs. It tells how we make wire, why it's better and why **Kitzelman Fence** is the most economical fence to buy. Write today for Catalog of fence bargains.

KITSELMAN BROS. Box 295 Muncie, Ind.

Help Your Hens Molt

Help them get over it quickly—
help them lay while molting
—make them more profitable to you and save yourself time and expense by feeding—Pearl Grit.

It's a double purpose grit. It does all other grits will do and more too. It is clean, white, hard and sharp. It thoroughly grinds the bird's food and aids digestion.

Pearl Grit

is rich in egg and strength producing materials. Furnishes lime for shells, sulphur and carbohydrates for the egg itself, bone and color for beautiful plumage and builds up the bird's constitution so it can withstand laying and molting at the same time. Pearl Grit takes the place of shells, lime, magnesium, etc. It saves you time and expense in furnishing these egg-making necessities. There's no other grit like it.

Send for free valuable booklet telling how to cure many common diseases among poultry with common remedies. Most valuable, most beautiful poultry booklet ever issued. Also tells the story of Pearl Grit.

The Ohio Marble Co.
10 S. Cleveland St.
Piqua, Ohio





\$7²⁵ New Mankato

THE biggest incubator factory of the northwest wants your address. Write for startling offer.

Mankato Incubators

are made of genuine California redwood, triple walls lined with asbestos. Heavy pure copper hot water heating system, automatic regulator, correct ventilation, Safety lamp. High nursery. Strong egg tray. Tested thermometer. Egg tester and all extras free.



Just Send Your Name

for big book full of poultry information. Postal card will do.

Mankato Incubator Co.
Box 752 Mankato, Minn.

selling out their holdings and locating in Virginia, being tired of trying to overcome the marketing conditions which confront the apple growers in many sections of the Northwest. Just now Patrick County is doing more planting than any other county in good old Virginia. In referring to the orchards of this county, *The Fruit Grower and Farmer*, says:

"The Rangeley orchard covers about 500 acres, 10,000 trees, and is over 25 years old. The Patrick orchard has 25,000 trees and covers 900 acres; the Atwood orchard, with 20,000 trees and 600 acres; the Shelton orchard, with 15,000 trees and 600 acres. The late Prof. H. E. Van Deman, who was considered the highest authority in the world on apples, was president of the Atwood Orchard Company. The Blue Ridge orchard, with 500 acres, has set 10,000 trees; the Premium orchard, with 600 acres and 15,000 trees, is very near the birthplace of Gen. J. E. B. Stuart, the Southern cavalry officer. The Rich Creek Orchard Company has just been organized and the clearing and planting of 500 acres more is going on steadily. At the present time nearly 130,000 apple trees have been set and will soon be ready to give a crop of fruit that will take many trains to carry to the great markets for choice apples."

* * *

Information came to the Michigan State Experimental Station that there was a man in the state, James Boyce, who has a large apple orchard near Gibson, and that he was so treating his land and his trees that he was getting a big crop of fruit every year. Now for an apple orchard in Michigan not to have its off year is an uncommon thing. So the learned men at the experiment station sent a man down to interview Mr. Boyce and to find out how he accomplished such results. The report this representative made is an interesting one and should be read and considered by every fruit grower. Here it is:

"I'm trying to specialize on Duchesse and other Summer apples," he stated. "But, in addition, I have a lot of Baldwins, Kings and Winter Bananas. These are mature and have been bearing for years and are producing immense crops. As you see, these Baldwin trees are loaded, but they have been loaded each year for the four years I have had them."

I expressed my surprise, as many apple orchards bear good crops every alternate year. Sometimes this applies to whole orchards and sometimes to individual trees; but here was a man getting a full crop of apples from the same trees every year.

"The matter of alternate bearing of apple trees," said Mr. Boyce, "is simply a matter of the supply of plant food, and I believe I have fully proven this by the fact that I have had full crops on my trees for the past four years."

"Out West, where the apple lands sell at high figures, no one expects to get a crop every other year, but every year. That is because the soil in those particular locations is filled with plant food to such an extent that each year the trees can get all the food they want. In this locality the plant food does not become available fast enough to give a crop each year. So, when a tree is bearing a large crop one year it is not developing fruit buds for the next crop; for all its strength is going to develop the crop for the current season."

"The buds for the fruit are developed a year ahead, and, during each growing season the trees should have enough plant food available to not only develop that crop, but to also make big healthy fruit buds for the following year."

"Most fruit growers in this part of the country do not feed their orchard land anything. So, in a big fruit year the trees go into Winter with undeveloped fruit buds and it takes all of the next Summer to grow the buds for the third year's crop."

"This condition is unnecessary, as I have demonstrated. Here is a little Duchesse tree that has given me annually ten bushels of apples, simply because I have fed it all the food it could use."

* * *

Another of the co-operative orchard companies has gone into the hands of a receiver and the officers are under arrest by government officers. It is the

old, old story, and this latest company to go under is no better or worse than the usual run of such companies. But why will people allow these sharks to beat them?

* * *

I will spend January, February and March in Florida. If I can be of any service to readers of the *AMERICAN POULTRY JOURNAL* in giving any desired information regarding Florida, fruit or poultry raising down there, I will be pleased to render the service. My address will be Miami, Fla., care of the Halcyon Hotel.



58 BREEDS, Pure-bred Chickens, Ducks, northern raised, vigorous and most beautiful. Fowls, eggs and incubators at low prices. America's Pioneer Poultry Farm; 21 years exp. Large fine Annual Poultry book and Catalog free. **F. A. NEUBERT, Box 675 Mankato, Minn.**

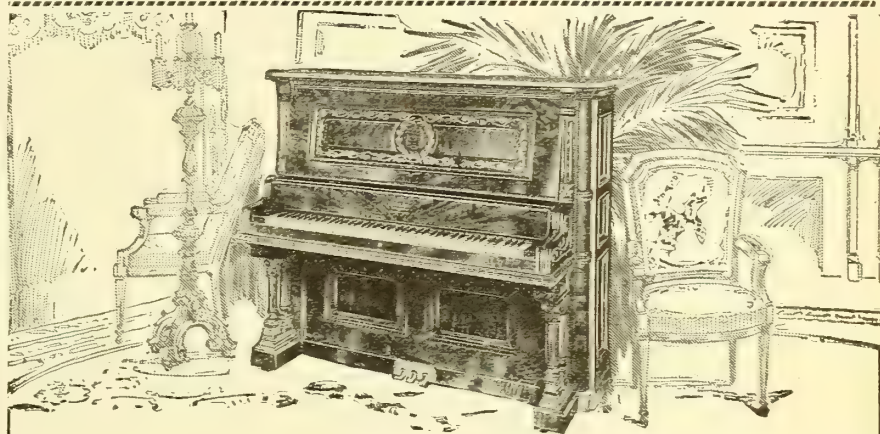
140 EGG Neubert Incubator \$7.50



The famous Pioneer Hatcher of Quality made by experts of 22 years' experience. None better at any price. No cheap pasteboard or metal affair. Double wooden walls, dead air space, redwood, hot water copper tank, self regulator, safety lamp, high nursery. Most simple and durable; set up ready to use. Money back guarantee. Brooders \$2.25 up. Factory price saves half. Big catalog free. Write to-day.

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Superb WING Shipped on 4 Weeks' Free Trial

YES, we will ship to you on 4 weeks' absolutely free trial a Genuine highest grade Wing piano **DIRECT** from our own factory, **freight prepaid**. The most surprising—most amazing offer ever made. An offer that puts you on the same footing as the largest piano dealer—and at the very rock-bottom **DIRECT** wholesale factory price! Since 1863—for 47 years—we have been building Wing Pianos, renowned everywhere for their sweetness of tone and sterling merit—and we now make you the greatest of all offers on the Wing, guaranteed for 40 years.

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At the end of the 4 weeks trial, if you wish, you may return the piano at our expense. We pay return freight to New York. Not a penny to pay for the pleasure of using the piano for 4 weeks. **No salesman to annoy you—you and your friends to judge.** Write now for the piano book (free).

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An invention by which you can teach yourself to play—given with every **Wing**. It's like getting music lessons free. Endorsed by: Paderewski, Jean De Reszke, William Mason, Emma Calve, Philip Sousa, Anton Seidl, Victor Herbert, S. B. Mills. See the Wing Catalog and read the letters of these great masters of music.

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with every **Wing** piano. A handsome stool of newest design to match the piano you select. Also beautiful Brocade Drapery, French Velour Drapery, China Silk Scarf, Japanese Silk Scarf or Satin Damask Scarf as you prefer.

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Address.....

Questions and Answers

Conducted by
Prince T. Woods, M. D.



Vitality in Cooped Males.

Q. (1) Will the vitality of cock birds be impaired that are separated from the hens on the first day of July and kept in training coops from that time on until the first of January?

A. (1) Prolonged close cooping will impair vitality. If the bird is intended for breeding would not keep him confined in the training coop longer than three weeks prior to showing and would not show him more than twice in same season.

Q. (2) If their vitality is not impaired, what would be the proper feeding when kept in close and solitary confinement from July 1st to January 1st of each year?

R. H. M.

A. (2) Would not keep any birds in close and solitary confinement for that length of time. The less close and solitary confinement a bird has the better. While young males may be kept herded in one flock with a few old cocks to keep them in order, for such time as may be necessary, we do not like to keep males intended as breeders away from the females for too long a time. Prefer to let breeding males have a few mates and a comfortable run and roosting quarters.

Where males are cooped for brief periods, feed a mixture of hard grains

and a limited supply of green stuff. See that they have grit and shells and clean fresh water. Feed little or no meat to confined males, in training coops, as meat in close confinement, with the usual warmth, is apt to cause too much growth of comb. Keep coops clean and renew bedding often.

Number of Layers on One Acre.

Q. (1) How many layers, American breed, can I keep on one acre for best results?

A. (1) Generally about 400. It will depend somewhat upon location and conditions. Do not allow less than 65 to 75 sq. ft. of yard space per bird where yards are frequently plowed and seeded down. Where it is desired to carry a good grass sod in the yards, allow from 100 to 150 sq. ft. yard space per bird. Where fowls are kept exclusively as layers, they are sometimes kept housed and allowed no yards. While this plan may work very well with pullets housed in the Fall and sold in Summer before the moult, we do not care for it. We prefer to have the birds get outdoor exercise in fair-sized yards.

Q. (2) How many square feet in an acre?

A. (2) 43,560.

Q. (3) How much does a ton of grain weigh?

A. (3) 2,000 pounds.

Q. (4) How much does a bushel of grain weigh?

J. B. D.

Chicopee Falls, Mass.

A. (4) It depends upon the law of your state. In Massachusetts the following are the legal weights: Barley, 48 lbs.; bran, 20; buckwheat, 48; corn, 56; corn meal and cracked corn, 50; oats, 32; peas, 60; rice, 45; wheat, 60.

Dark Comb and Jerky Walk.

Q. I have a Buff Minorca cock bird that is sick. He is a fine bird and I would like to save him. His comb turned dark at the points and seems to have shrunk somewhat. He is very unsteady on his feet and has a jerky walk like stringhalt. Sits on shanks at times while eating and it seems to be an effort for him to get settled when on the roost.

W. C. G.

Dayton, Ohio.

A. The symptoms indicate intestinal irritation. May be due to liver disorder, indigestion, or worms. Possibly there is also inflammation of front of hock joints. Look in bend of hock joint, just under feathers, for redness and possibly ulceration. If found, cleanse the parts and apply a good healing ointment, like unguentine. For the intestinal trouble give him one dose of Epsom salts. After he has fasted twelve hours, give one-fourth of a level teaspoonful in two tablespoonfuls of water. If worms are found in droppings, use disinfectants freely on droppings and on floors; give the bird tincture of Cina in the drinking water—about half a teaspoonful of Cina to a pint of water and allow no other drink. Use the remedy in the drinking water for about ten days. You can obtain it from any Homeopathic pharmacy or physician. Feed soft mash containing a little garlic or chopped raw onions. Feed very little for a few days. When improvement is noticed, give a mixture of hard grains, greens and a little cooked fresh fish. Keep grit, shell and drink before the bird.

Feeding Formulas.

Q. Please give me formulas for poultry rations used at Cornell and some of the other State Stations.

Hunters, Wash. H. M. C.
A. Cornell: Mixed grain scratch food in litter morning and afternoon: Corn, 60 lbs.; wheat, 60 lbs.; oats, 30 lbs.; buckwheat, 30 lbs.

Dry mash in hopper which is opened in afternoon: Alfalfa, 10 lbs.; bran, 30 lbs.; middlings, 60 lbs.; corn meal, 60 lbs.; oil meal, 10 lbs.; beef scraps, 50 lbs.; salt, 1 lb.

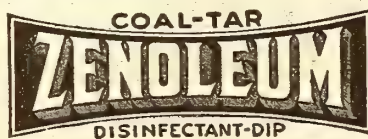
Succulent food at noon as much as is cleaned up promptly, consisting of: Beets, cabbage, sprouted oats, clover, or other available greens. Shells, grit and water always before the birds.

Lice and Mites are Profit Killers



LICE and mites live on the blood of poultry. They sap the vitality of hens. A lousy hen can't eat properly, can't lay, can't thrive. Lice kill baby chicks and steal profit. Be sure that your poultry is free from lice and mites. You can rid them of these pests. You can drive these profit thieves out of your chicken house and keep them out with

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the wonderful louse and mite killer. It helps egg production, cures chicken diseases, increases poultry profits. Spray Zenoleum freely and often in the homes of your birds. It's the most reliable germicide known—used and endorsed by 50 Agricultural Colleges. Cures and prevents nearly all live-stock diseases, too.

Special Trial Offer! We send prepaid, eight ounces for 25 cents or a quart for 50 cents. Full gallon \$1.50—parcel post prepaid. Use it as directed for any purpose, absolutely at our risk. If it fails to meet severest test, it doesn't cost you a penny. Must do all you want to do or back comes your money; no argument, just money, Zenoleum Lice powder—the most wonderful powder of all—big package 35 cents parcel post prepaid.

Write for Poultry Book, "Cause, Symptoms and Home Treatment for all Poultry Diseases"—FREE for the asking. A dollar book for nuthin'.

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WHITE ORPINGTONS **R.C. RHODE ISLAND REDS**

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**TRAP NESTED
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QUALITY **SIZE** **VIGOR**

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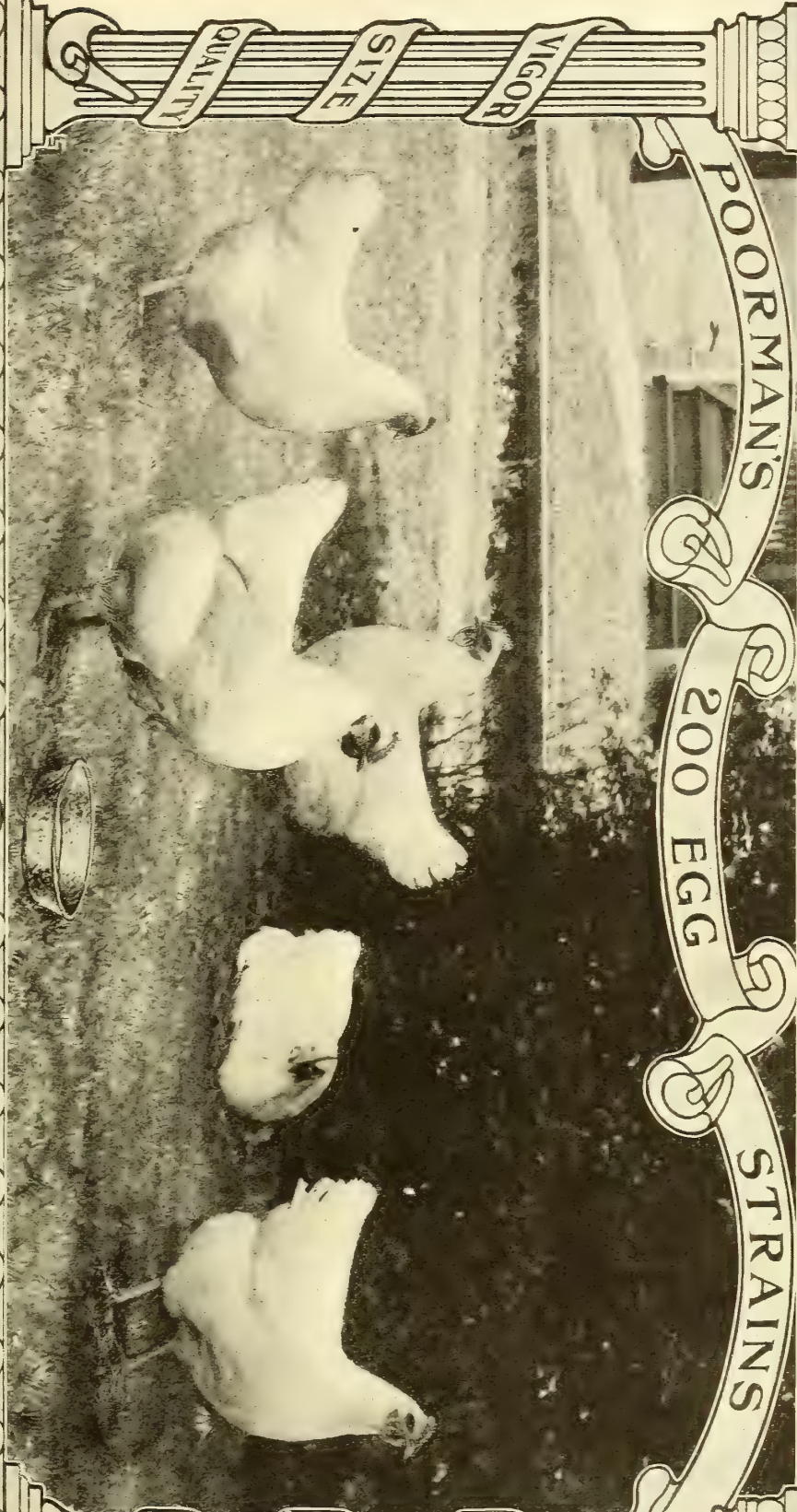
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TINLEY PARK, ILL., U.S.A.



The White Rock hens in this group have records of 227, 231, 242, 281 and 301 eggs.

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6 YEAR
SEE THAT XX?
POINTS THE WAY
START RIGHT
YOU ENDRIGHT

any person in the world to hatch one egg the Magic Egg Tester registers unhatchable before incubation. 2d. We challenge anyone to produce evidence of one 200 egg layer that was not hatched from an egg rated good by the Magic Egg Tester. It is a sure loss to take a chance on weak eggs. Unimpeachable testimonials. You save and make money when the Magic Egg Tester picks out the eggs for hatching. Don't use weak eggs. It kills the profits, and nearly kills you. This device also helps to regulate moisture. Price \$2.00 and no expense to use. One year's trial given. Money back if not satisfied. Orders filled by Insured Parcel Post. Sold by Poultry Supply dealers throughout the country, or by the Magic Egg Tester Works. Dept. B Buffalo, N. Y.; also Bridgeburg, Canada



The Winter Layer Is The Only Payer

GILBERT HESS
M.D., D.V.S.

It's only the hen that lays during winter, when eggs are high, that pays a profit. But hens must have a tonic during cold weather to keep them on the job—to keep the egg organs active and responsive. Here is a guaranteed tonic—sold by reputable dealers all over this country on the basis of "no eggs, no pay." Buy it on this understanding. So sure am I that

Dr. Hess Poultry Pan-a-ce-a

A Tonic—Not a Stimulant

will help to keep your poultry healthy and to make your hens lay that I have told my dealer in your town to supply you with enough for your flock and if it doesn't do as I claim, return the empty package and get your money back. 14 lbs., 25c; 5 lbs., 60c; 12 lbs., \$1.25; 25-lb. pail, \$2.50 (except in Canada and the far West).

If not at your dealer's, write

DR. HESS & CLARK, Ashland, Ohio

Costs
only 1c
a day for
30 fowl.

Tycos

THERMOMETER

Insist on it

make sure that your new incubator is equipped with a Tycos. It "always tells the truth." Always found in the best machines. Our Hygrometers and Brooder Thermometers are just as reliable. Put Tycos instruments in your old incubators and brooders and increase their efficiency many fold. If your dealer cannot supply you, write to us. Send for our very instructive book, "Thermometer Facts Worth Knowing."

PRICES (Postpaid)	
Tycos Incubator Thermometer	each \$.75
Tycos Incubator Hygrometer	" 1.50
Tycos Brooder Thermometer	" .75
Tycos Certified Incubator Thermometer	" 1.00
Tycos Electric Lighted Incubator Thermometer	" 2.50
Tycos Electric Alarm Thermometer, prepaid	" 5.00

Taylor Instrument Companies,

100 Ames Street Rochester, N. Y.

Maine: First thing in morning 4 quarts of screened cracked corn in litter for each 100 birds. About one hour before noon, 2 quarts wheat and 2 quarts oats in litter. Greens at noon all birds will clean up.

Dry mash before the birds in hoppers all the time: Bran, 200 lbs.; corn meal, low grade flour, gluten meal, beef scrap, each 100 lbs.; linseed meal, 50 lbs. The linseed meal is only used in mash every other month.

Connecticut: Scratch grain in automatic feeders or hand fed morning and afternoon: Cracked corn and wheat, each 60 lbs.; heavy white oats, 40 lbs.; barley, 20 lbs.; kafir corn, buckwheat, and coarse beef scrap, each 10 lbs.

Dry mash in hoppers open at all times: Coarse wheat bran, 200 lbs.; corn meal, gluten and ground oats, each 100 lbs.; middlings, 75 lbs.; beef scrap and fish scrap, each 30 lbs.; low grade flour, 25 lbs. Green food, grit and water always before the birds.

New Jersey: At 9 a. m. equal parts by weight of wheat and oats in litter. At from 3 to 5 p. m. scratch grain: Cracked corn, 200 lbs.; wheat, oats and buckwheat, each 100 lbs. Morning feed is about five pounds in litter for each 100 birds; evening feed about ten pounds for each 100 birds.

Dry mash before birds at all times: Bran, middlings and beef scrap, each 200 lbs.; ground oats, corn meal, gluten feed and short cut alfalfa, each 100 lbs. Alfalfa left out in Spring and less beef scrap used. Oil meal added to mash in moulting season. Constant supply of grit, shells, charcoal and fresh water.

Indiana: Scratch grain morning and evening: Corn and wheat, each 100 lbs.; oats, 50 lbs. Dry mash, hopper fed, as follows: Bran and middlings, each 100 lbs.; beef scrap, 60 lbs. Greens, all birds will eat quickly once a day of either alfalfa, beets, cabbage, or silage. Milk given when obtainable. Water, grit, and shell at all times.

Missouri: Equal parts corn and wheat in Spring and Fall: in Winter, two parts corn and one part wheat. Feed at rate

DO YOU KNOW

That the happiest people are those who now own a flock of

Pape's Single Comb Black Minorcas?



New York market is paying 72 cents per dozen for large white eggs—a premium of from 12 to 32 cents per dozen over any other size or color. Surely an incentive to start with "PAPE'S", acknowledged the most profitable, large, white egg laying, table fowl, and prize winning strain in America. Am offering on approval exhibition birds, breeding pens, COCKERELS that WILL IMPROVE ANY FLOCK and that will develop into prize winning cock birds, layers, Eggs that will hatch, and Chicks at introductory prices. Catalog and assistance free.

CHARLES G. PAPE, Box B-74 FORT WAYNE, INDIANA
Have specialized on egg production for 20 consecutive years.

of a quart for 20 hens in early morning and about three pints for 20 hens at evening feeding. Ground oats are hopper fed and to each 100 lbs. of ground oats is added 10 lbs. beef scrap, 1 lb. ground charcoal and 1 lb. salt free from lumps. When ground oats are not available: Equal parts of wheat bran, middlings, and corn meal with beef scrap, charcoal and salt in same proportion as with the ground oats. Scratch grain is fed in litter six inches deep. Green food: Alfalfa fresh cut, cabbage, beets, or sprouted oats, what they will clean up quickly. Layers get a scant feeding of wet mash between 1 and 3 p. m. of equal parts bran, corn meal and middlings, made crumbly with sour milk or buttermilk. Grit, shells and water always.

Kansas: Scratch grain morning and evening: Wheat, 300 lbs.; corn, 200 lbs.; oats, 100 lbs. Dry mash: Middlings and corn meal, each 60 lbs.; bran, 30 lbs.; cut alfalfa, 10 lbs.; meat scrap, 50 lbs.; oil meal, 10 lbs.; salt 1 lb. Greens at noon, all they will clean up in fifteen to twenty minutes: Sprouted oats, fresh cut alfalfa, clover, corn, rye or beets. Oyster shells; grit, charcoal and fresh water always.

Dubbing Male Birds.

Q. What is dubbing a cockerel and how is it done?
J. C. M.
Buffalo, N. Y.

A. Dubbing means cutting off comb and wattles. It is easily done with a sharp scissors. Don't try to cut either comb or wattles too close. We generally let the bird bleed until the bleeding stops and believe it is better to do so. Keep the bird away from the others. A little iodine can be painted on the cut surface, but it is not often necessary.

Fish Scraps.

Q. Am sending you a sample of fish scraps that I can buy for a little over a cent a pound. You will notice that it is salt. Is it safe to feed?
M. A.
Amesbury, Mass.

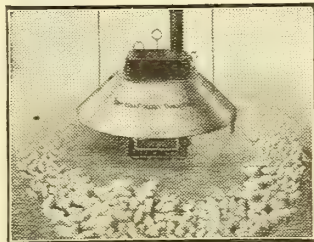
A. Have examined the scrap carefully and find it same as a sample recently sent to us, practically salt fish fibre. We do not believe that it is safe to feed unless well freshened before using. We have fed salt fish to hens by hanging up a salt cod, well dried, for them to pick at; but we would not want to risk feeding this salt fish scrap. Salt is poison to fowls if they eat too freely of it and this scrap would be apt to tempt them to eat it altogether too freely. It is decidedly salt, so salt in fact that it nearly takes the skin off one's mouth. We would not use it in a dry mash, and we would not use it in a moist mash without first freshening

BABY CHICKS

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ROSEDALE EGG FARM - PORT HURON - MICH.

Day Old Chicks, Cockerels and Eggs from Trap-nested Females with Big Egg Records. English Bred Birds (Barron's Strain). Also day old Chicks from fine Rhode Island Red and Barred Rock stock.

CARNEAUX PIGEONS the prolific squab breeders.

Write for Catalog and Prices.

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with a velvet touch, viselike grip, saving the wrapping of Hatching Eggs.

SHIPPING COOPS. Steel top, bottom and corner irons, heavy fibre board sides, closed and cleaned, no nails or tape. Will last for years; are beauties; gives distinction to the birds; made in five sizes.

ONE QUART FIBRE SANITARY DRINKING FOUNTAINS AND FEEDERS. 75 cents per dozen.

BABY CHICK BOXES. easily put together, positive air without drafts, chicks cannot crowd, keeps them moving, arrive at destination healthy and strong. Sample, small size, postpaid, 20 cents.

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HARTLEY STEEL CRATED BOX CO.

SAGINAW, MICH.



NIAGRADOT

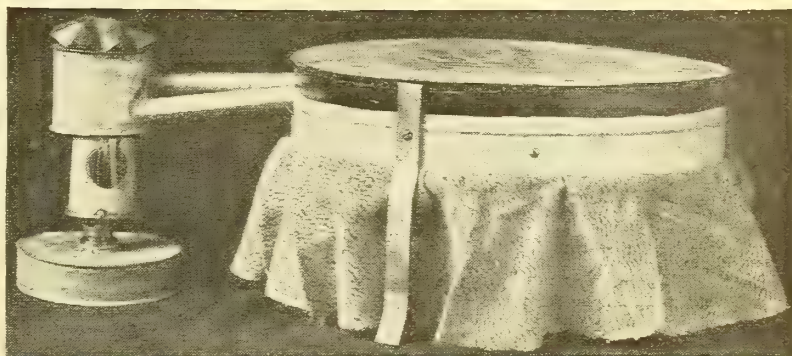
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SUPERIOR "None Better"

They prove it also in the egg basket. We can supply what you want. Catalog Free.

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WHITE WYANDOTTES



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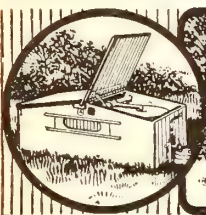
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Price—\$1.50 per gallon. Expressage extra. Trial Bottle, 12 ounces, 25 cents.

If your dealer does not handle FER-SUL, he soon will do so; but we will fill your order on receipt of price and his name.

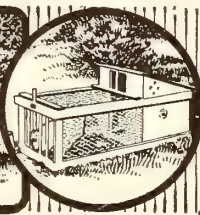
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Setting Coop

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PORTABLE
HOUSES**

BROODER can be operated out-of-doors in zero weather with little attention or expense. 50 to 100 chicks.
No. 3 POULTRY HOUSE—Fitted complete for 60 hens—8x20 feet. \$110
First pen, \$60; additional pens, \$50 each. Red Cedar, vermin-proof.
SETTING COOP to set a hen in and brood her chicks. \$3.

All neatly painted and quickly bolted together. Send for illustrated catalogue.

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At the Great Panama-Pacific International Exposition I won 1-2-5 Cock; 1-2-3-5 Hen; 1-2-4 Cockerel; 2-3-5-7 Pullet; 1st Exposition Pen. Several Specials, including two \$50 Loving cups. My birds have proven during the past several years that they have no equal in Exhibition qualities, having swept practically every show they have made, and having made the leading shows of America, several times winning sweepstake honors over all breeds. Have sold every bird I could spare, but will furnish hatching eggs from the finest specimen of the breed including my Worlds Fair Champions. My birds are carefully bred for heavy Winter egg production and are on the job right now awaiting your egg orders. Write for free Mating List.

Elton C. Mahon, Buckeye Specialist, Norwood, Tenn., U. S. A.

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"Have brought off two 100% hatches in my Progressive."
W. H. Thomas, Oak Flat, Ark.

"Progressive Incubator hatches average close to 100%."
O. P. Parrish, Rutledge, Mo.

"Every single egg hatched that had a chick in it."
Roy Green, Chattanooga, Tenn.

"Four fine hatches averaged from 90% to 100%."
C. A. Walker, Charleston, Ill.

Progressive Incubators bring off Blue Ribbon Hatches like these because they are built from best materials with latest improvements. Most consistent hatches on the market. Biggest bargains.

\$7.85 LOWEST PRICE YET FOR BIG 155 EGG INCUBATOR

Genuine California Redwood. Hundreds of dead air cells to protect eggs against sudden changes. Perfect Copper Hot Water Heating System, Double-disc Temperature Regulator, Heavy Safety Lamp, Double Doors, Strong Egg Tray, Reliable Egg Tester, Accurate Thermometer. Write for new 1916 Combination Offer and Free Poultry Book with records of big hatches.



Set up ready for use

Incubator alone \$7.85—with Brooder \$9.85. P.T. paid E. of Rock-ies. Shipped complete all ready to use—no extras. Money back with 8 per cent interest if not found as represented. ORDER TODAY.

Progressive Incubator Co. Box 135 Racine, Wisconsin

it by washing well in cold water. Even then we should want to test it out pretty carefully on a very few fowls at first.

We use a fish scrap freely for breeders and layers, but it is not a salt scrap. It is made from fresh fish and has been put through a cooking process and one for extracting the fat. We have never known it to give a fishy taste to the eggs or flesh of the fowls. We like it very much for growing chickens—it is practically all protein and fish bone and it helps toward quick growth and big well-meated frame.

Any clean wholesome fresh fish food that is free from fish oil, ought to make good cheap poultry food where the poultryman lives near large fisheries. Some plants around Lake Erie feed quantities of eel-pouts, which make fine growing food for chicks and egg food for layers. Near the ocean there are always opportunities to get good low-priced fish waste for poultry feeding. We can buy good, clean fish scrap from 2¼ to 2½ cents a pound for poultry feeding, cooked, dried, oil extracted, and sacked for shipment. Local supply of beef scrap has been so poor in quality lately that we have used fish scrap exclusively for our flocks for several months and have found it to be entirely satisfactory. We have never had better or finer flavored table eggs.

Canker—Ration for Adult Stock.

Q. (1) I have two cock birds that show the following symptoms: Loud breathing like a snore with mouth held open; when crowing they throw their heads to one side and make a clucking sound in throat. They eat all right.

A. (1) Examine the throat with mouth of bird held wide open and pulled a little forward, using the finger on throat just below base of lower bill to throw the upper end of windpipe up into view. You will probably find canker. With a blowpipe or blowgun, dust the following powder directly on the canker patches: Mix one grain of finely powdered permanganate of potash and a little powdered gum arabic with about an ounce of sugar of milk. Use a fresh mixture. Wherever it hits the wet mucous membrane it will turn purple. Apply several times a day to the canker patches until there is improvement and then use less often. Use just enough of powder to cover the canker, do not blow in enough to choke the fowl.

Q. (2) Some of my cock birds have lop combs, one fell clear over to one side and another just had the ends lop.

A. (2) May be due to injury or may be because birds are out of condition. We wouldn't use such birds for breeding.

Q. (3) My birds have a fairly large run but not much range. What would you advise feeding to old cocks and hens that I want to use as breeders

57 Varieties Chickens, Ducks, Geese and Turkeys. Prize-winning, pure-bred, hardy, northern raised. Fowls, eggs and incubators; low prices. Most successful farm; 19th year. Large fine catalog 3c. Larkin & Herzberg, Box 127 Mankato, Minn.



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For \$2.96, including heater, you can build the simplest, most efficient, and most satisfactory brooder ever made. Wind-proof; fire-proof; rat-proof; fool-proof. Can be built in an hour by anyone with no tools but saw and hammer. Illustrated plans, 25c.

\$2.96

I. Putnam, Route 105, Elmira, N. Y.

next Spring? Should they have mash and grain before them all the time? Laurel, Ind. P. S.

A. (3) Would give them a grain mixture of equal parts by weight of cracked corn, wheat and oats and would feed this in litter morning and evening. This will give a pretty good percentage of oats, but oats are good for them. Would keep them on the regular dry mash, but would only open the hoppers just after noon and would close them at night closing time or at watering time in the morning. Feed greens freely, all they will clean up in half an hour. If you vary their ration too much or cut them down to scant rations and then put them back on regular diet at breeding time you may start them moulting. Feed them enough to keep them in good bright vigorous condition, but don't get them overfat.

Contamination.

Q. I have a S. C. White Leghorn cock that has been running all Fall with a flock of mongrels. He is a good bird and I would like to breed him. Some say his get will be mongrels. Do you think so? I have ten fine White Leghorn pullets I want to mate him with. Alpha, Md. M. M.

A. Breed him to the pullets if all are healthy and in good sound vigorous condition. We don't take any stock in the so-called contamination danger from a cock bird running with other than his own variety. If cock and pullets are unrelated, you may get a throw back of some off-colored feathers, but it won't be from any contamination.

Width of Roosts.

Q. How wide should roosts be for American class varieties? For Mediterranean class varieties? H. J. Alberta.

A. For large birds use roosts of 2x4s placed 4 inch side up. For small birds use roosts of 2x3s placed with 3 inch side up. Where roosts are not over

SQUAB BOOK FREE

for 1916, telling how a Mich. hired man now works for himself breeding PR squabs and selling for \$5 doz., how an Ind. man sold 4652 PR squabs for \$1265 in 1915 and cured himself of desire to leave the farm, how a S. C. man ships PR squabs 125 miles to city hotel by parcel post at \$4.25 doz., how another earned one thousand dollars with PR stock from start with only one pair, how a Texas judge bred 8 pigeons until they amounted to a flock of 164 in one year, how a Vermonter bred 25 pairs to 800 pairs in two years. You can do the same. More money-making experiences. Write today for this big free book. How to get six dollars a dozen, how to start small and grow big. We ship breeders everywhere, safe delivery guaranteed. Read how one of our customers gets as high as \$8 a dozen for squabs in Pittsburg and makes a net profit of ninety dollars a month. Note his selling methods. Reading matter which is alive with selling as well as breeding ideas. Squabs well sold are easily

raised. Many successful women customers. Read of their methods and the results they accomplish. For prices and full particulars see our free book, "How to Make Money with Squabs." Write for it today.

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DAY OLD CHICKS. EGGS for HATCHING. Book your orders now for spring delivery. Choice utility cockerels at \$1.50, \$2.00 and \$3.00 each. At least get our catalog and prices before ordering elsewhere.

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Rockdale White Plymouth Rocks

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ROCKDALE ROCKS have won 3 Championships, 6 color and shape specials, 13 firsts, other prizes at 6 strong Mid-west shows—and are good layers.

Fifteen years breeding White Rocks. Kindly write your wants.

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Dodgeville, Wisconsin

Grand quality in breeding cockerels, \$3, \$5, \$8. Show cockerels, \$10, \$12, \$15. Husky utility cockerels, \$1.50 to \$2.50. Good breeding pullets, \$1.50 to \$5. Best quality we ever offered at the above prices and satisfaction guaranteed at every price.

SINGLE COMB WHITE LEGHORNS



QUEEN
263 EGGS
ONE YEAR

Queen is the girl that put the Lay in Leghorn! Place one of our

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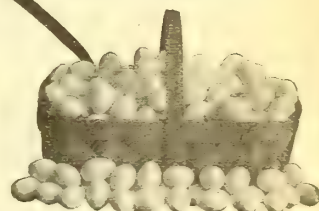
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in your breeding pen and join the Full Basket Brigade. Stock, Eggs and Chicks. Ask for catalog J.

Applegrove Poultry Farm

QUEEN STRAIN

W. B. Tyrrell
Delavan, Wis.



263 EGGS
QUEEN STRAIN

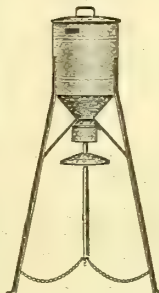
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is the most complete on the market and every article is full size and full weight made for service and not just to sell. We use nothing lighter than No. 28 gauge galvanized steel and many parts are made of No. 26 and No. 24.

Do not invest in any kind of poultry appliances until you have examined our line and compared it with other makes.

If you cannot buy our goods of your local dealer, send us your order direct and we will give you prompt shipment either from the factory or our warehouse in New York City.

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The Economy and O. K. Exerciser Feeders
Best made.
Prices \$1 to \$3

Poultry Supplies, Incubator and Brooder parts, Electric Incubators, Electric Hovers.



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Double Walled with Dead Air Space.

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Speak for Themselves



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Are the standard by which all Anconas are judged. They speak for themselves. At the leading show of the world, Madison Square Garden, New York City, Sheppard's Famous Anconas have won three times as many first and second prizes as all other Ancona breeders together, during the past eight consecutive years, which proves beyond a doubt that they are

The World's Best

The grandest Anconas in the world are on my farm, ready to win for you in any competition. They have good color, grand shape, excellent tail carriage, elegant heads, dark wings and tail, nicely mottled—just what you want to win or for excellent breeders. Prices reasonable.

Champion Layers

Sheppard's Famous Anconas are greater winter layers and have a wonderful record of **256 average** for a flock.

Your order will have my personal attention—write at once—Catalog on request. Stock, Chicks or Eggs for sale.

H. Cecil Sheppard

President International Ancona Club

See my ad on opposite page
and front inside cover.

Box M-2, BEREA, OHIO

three feet long you can use one-inch boards of proper width, placed with wide side up. Round the edges of top of roosts.

Buying Breeders.

Q. If you had just six nice pullets of your variety and not over fifteen dollars you could afford to spend for new stock, which would you do—buy a cock, a cockerel or a trio?
Manlius, N. Y.

F. G. A. We think we should pick out a leading, representative specialist in that variety and we would send him the \$15 and ask him to send us the very best, well-matured healthy cockerel he could sell us for \$10 to mate with our pullets and we should describe the pullets. For the remaining \$5 we should ask him to send us fifteen of the best hatching eggs he could deliver at the price and we should try to have them delivered during the first week in April. If the breeder is as square with you as we believe he will be, you should get some pretty good foundation stock out of the \$15 so invested and a good start. When you buy, tell him just what you told us.

Stalled on Green Bone.

Q. My pullets and hens were laying fine, when all of a sudden they began to shut down and in a few days where I had been getting fifty eggs a day, I am now getting only from two to five. They seem healthy enough and sing, but their droppings are pretty soft and sometimes watery. I ran out of beef scrap and could get some green bone cheap, so I have been feeding that. Could the bone do it? They went at it ravenously and the egg yield dropped from that time. Eggs are 65c. Please help me.
J. J. C.

Newark, N. J.

A. You probably stalled your pullets on green cut bone and put them out of laying condition for a time. Go a little slow with the green bone. Don't feed all they will clean up. Never feed enough to make the droppings loose and watery. Work a little low grade flour into your mash, about one measure in every nine or ten measures of the regular mixture. If you cut down on the green bone as soon as you noted trouble, it is probable that the pullets are again laying all right by the time you read this.

Sore Head.

Q. Please give a remedy for sore head in fowls. I have lots of trouble with a disease they call sore head here. Hilda, Texas.

A. B. Wash affected parts with warm water and good hard yellow soap. Remove all crusts. In the wash water use a teaspoonful of creolin, pyrocarbol, or zenoleum to the quart of water. After thoro cleansing, dry the parts carefully; if moisture oozes from the sore spots, dust on a little powdered boric acid. If

Warm Water—Get Eggs

A Little Putnam Stove keeps water for poultry unfrozen in zero weather; 9 inches diameter, 4 inches high; holds 3 pints of oil and burns a month without refilling; never needs trimming; prevents frosted combs; increased eggs pay for stove in 30 days; fire proof. Most useful poultry appliance ever sold. Each \$1.50, six for \$8.00, postpaid. Satisfaction or money back.

L. Putnam, Route 105, Elmira, N. Y.

parts remain dry rub on a little carbolated vaseline. Daily treatment for a few days may be necessary to effect a cure. Clean up and thoroly disinfect the poultry quarters.

Where Can I Buy Chickens Without Roup?

Q. Where can I buy chickens that don't have roup? Mine get colds and roup every Fall and Winter. It always comes about the same time. B. Martinsville, Ind.

A. There are plenty of breeders who will sell you birds bred from stock that never had roup. Buy of some breeder who keeps his birds in fresh-air houses. If you try to breed "cured" roup stock birds, you will always have roup in your flocks. The young stock are almost certain to develop the trouble at about the same time of year the parent birds had the disease. Breed only healthy birds, never breed a bird that has been sick, house your flocks in open-front houses; breed, feed and manage your flocks for health; keep things clean, and you won't be troubled with roup. Very few experienced breeders have much difficulty with roup nowadays. When they do, it is because some show management permitted dirty, not properly disinfected, coops in the show room. Just remember, if you want to avoid trouble, do not breed birds that have been seriously sick and apparently cured. You don't know whether they are cured or not, or whether they will stay cured.

Cedar Excelsior.

Q. Would it be all right to use cedar excelsior for nesting material to prevent lice and mites? F. J. Hanson, Mass.

A. We have never used it. It costs about \$2 per 100-lb. bale and we can get good soft hay for nesting material cheaper than that. We have used common excelsior for nesting material and it serves very well as a makeshift, but is a bit too stiff. The only difference with the cedar excelsior is that it might flavor the eggs, if very cedary and that would be a decided objection.

Time of Feeding Wet Mash.

Q. In feeding wet mash, mixed crumbly, to laying hens when should it be fed; morning, noon or evening? Manchester, N. H. A. C. J.

A. It really does not make any particular difference so long as you regularly feed it at about the same time on mash days. We should feed it at the time of day we found most convenient and not oftener than five or six days a week.

Feeding Cabbages.

Q. Will it pay me to buy cabbages for Winter green food for my chickens? I can get good cut clover at a low price. Cabbages are high. I can also get large white carrots and mangels. Detroit, Mich. G. E. M.

A. We buy waste cabbage when we can get them for Fall feeding. We do not care much for them after the severe cold freezing weather comes. Frozen cabbage is poor food for laying hens. You should be able to get along very well with the cut clover and roots. If mangels are fed raw, don't feed heavily enough to have them freeze before eaten. Frozen mangels are a source of danger. Cut clover, if properly cured, makes a very fine coarse food for poultry.

ANOTHER GREAT RECORD

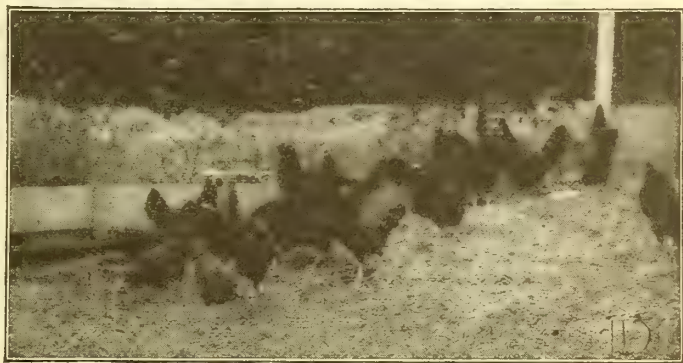
Three Generations of Sheppard's Famous Anconas

Looks Mighty Good, Doesn't It?



These are the birds that are world famed as winter layers. They have the wonderful record of 256 average for a flock. That is why my customers call them egg machines.

The pullets in the picture below were hatched from eggs laid by my birds in picture above, when parent birds were only four months, fifteen days old.



Here are the pullets that laid when four months, seven days old. Their eggs hatched these wonderful youngsters shown below, producing three generations in less than one year, making a record that stands alone



Sheppard's Famous Anconas are bred to make good, both in the show room and as layers. They have made good for me. They will do the same for you. Stock, Eggs or Baby Chicks for sale. Send for our 70-page catalog which will be mailed upon request.

H. CECIL SHEPPARD, Box M-2, Berea, Ohio

See my ad on opposite page and front inside cover.

A GREAT WIN ON BUFF AND BLUE ORPINGTONS

At Holyoke, Mass., every Buff entered won a ribbon. I won the 5 First's and 2nd Cock and hen at Springfield, Mass., in a class of 99 Buff's, 1-4; Cocks; 1-2-3, hen; 2 cockerel; 1 pen special for color and shape males; special for best shape females; best pen in show all classes competing. At same show on Blues, ten birds entered, won 1-3 hen and pullet, 2 pen.

Some of these birds and many others as good, are for sale. Write your wants, my prices are reasonable. Now booking egg orders.

HENRIETTA E. HOOKER, South Hadley, Mass.



RILEY'S White Wyandottes

BROKE ALL RECORDS at the Ohio State Fair, September, 1915, winning all firsts. My winnings were: 1st Cock; 1st and 2nd Cockerels; 1st, 2nd and 3rd Hens; 1st, 2nd and 3rd Pullets; 1st Old Pen, and 1st Young Pen. The quality of my exhibit was freely commended both by judges and breeders. This, together with my winnings of December, 1914, at the Great Coliseum Poultry Show, and Toledo, proves their quality as breeders. They are bred to lay with the same care they are bred to win. Why not try the strain that win as well as lay? A fine lot of Cockerels and Pullets from \$3.00 up. Also Cocks and Hens for sale. Send for Catalog.

Get my price on winners for your show.

H. J. RILEY

BOX A

BRYAN, OHIO



First Prize Cockerel the most coveted prize in the class and the prize that fully demonstrates the quality of this strain. This prize, in the very strongest competition at **The Great Panama-Pacific Exposition, Chicago Coliseum, St. Louis, Illinois and Indiana State Fairs**, was won by

U. R. FISHEL'S White Plymouth Rocks

This splendid record with the winnings at Great St. Louis World's Fair, Pan-American, Jamestown and Appalachin Expositions, Hagerstown and New York State Fairs, Nashville, Memphis, Atlanta, New Orleans, Dallas, etc. Bred in line for over twenty years. If you want

Selected Breeders or Utility Fowls

farm reared, strong, vigorous, hardy fowls that will give you results. **Write me your wants, please. Mating List and Price List Free.**

Eggs for Hatching. Baby Chicks.

U. R. FISHEL - Box A - HOPE, INDIANA

"WHY I BREED SINGLE COMB BLACK MINORCAS."

A Breed that Invariably Lays Pure White Eggs Weighing from Thirty to Thirty-two Ounces to the Dozen Is Worthy the Serious Attention of Any Egg Farmer.

By HENRY D. BARTO, Manlius, N. Y.

I RECOLLECT some years ago when I was first becoming interested in poultry of reading about the sale of a large flock of Black Minorcas to a breeder who was to continue the former owner's lucrative business. At that time I remember saying to myself, "Mercy! Who would ever want black chickens." It made such an impression on me that I have always remembered it. But as time went on and my poultry enthusiasm grew I came to have a definite aim in my modest operations. I couldn't do anything else but choose the S. C. Black Minorcas.

My aim was the production of the fanciest of table eggs and the S. C. Black Minorca is "it" every time in this respect. Any breed that invariably lays pure white eggs that weigh from thirty to thirty-two ounces to the dozen is worthy of the serious attention of any sincere egg farmer. So I was literally forced into breeding them, and as my acquaintance with them ripened, my admiration for them has grown with every passing year.

It is a fact that Black Minorca eggs command the highest price on the American market today. In any discriminating market—and most cities are—prime Black Minorca eggs command enough premium over the ruling market prices to nearly, if not quite, pay the cost of feed. That is, if one has enough surplus eggs to sell to make it worth while. As far as my own experience goes they command from 5 to 15 cents more per dozen. Just figure it up for yourself and see what it amounts to in a year's time. If Black Minorcas are hatched before May 1st they prove very dependable Winter layers—when eggs are worth real money.

Many people are under the impression that S. C. Black Minorcas are small fowls, like the rest of the Mediterranean breeds, but it is not so. They weigh more than Reds and Wyandottes, just the same as Plymouth Rocks, and are within a half-pound as heavy as Orpingtons. So you see, they are a large fowl, and many well-bred specimens will go from eight and a half to nine and a half pounds for hens and between ten and twelve pounds for cocks. "Some chicken," which many poultry editors overlook in their "Advice to Beginners."

For the table, as prime roasters, Black Minorcas are in the "A" class, irrespective of what a great many writers say and think about their merits. For broilers they are not so good as their black pin feathers are against them, but just as soon as they are out of the pin feather stage they dress off into splendid appearing fowls. They have more solid white meat than any one would suppose, and if well cared for are always tender, juicy and sweet.

I never could understand why Black Minorcas were not classed among the general purpose breeds as I never yet have been discriminated against when I had surplus fowls for market. People who try them once often demand more.

Black Minorcas are easily confined and always contented. Two or three years ago I made a new yard for my growing stock of five-foot fencing but I didn't get around to complete the gates, so extemporized one of the three-foot chicken wire nailed to the posts, and in all this time I haven't had a single fowl, young or old, fly over the gate. It is not that they can't fly, but they don't. Black Minorcas have large, powerful wings and can fly as high as any fowl, but they don't except under exceptional conditions. So I have never made my gate as the convenience of being able to step over the wire with both hands full far outweighs the looks of the thing.

I am seriously thinking of building my next fence of four-foot wire, as I know of a breeder who yards his with this high of wire and has no trouble keeping his fowls in. But the point I wish to bring out is that there are not many breeds so easily confined.

The Single Comb Black Minorcas are easy to breed true to Standard, even with the single mating system. In mating just be careful not to mate brilliant colored males and females, as this produces too much purple anyway, and is apt to give many red feathers in the neck. For good color I much prefer brilliant colored males, free from purple, and dull black females, all of them as near Standard as possible in type, size and comb, with good black under-color.

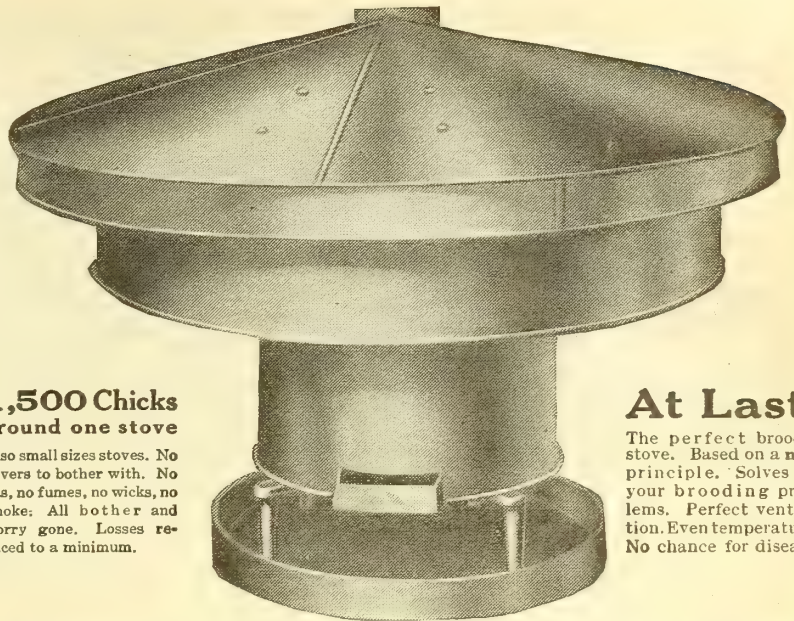
Such a mating gives splendid young stock of both sexes with many first-class exhibition specimens and very few culls.

Look carefully for white feathers, and if found discard that fowl from the breeding pens no matter how good he or she may be otherwise. I made that mistake once and now, after four generations, I notice the same white feather in some of my young stock that I had in the great, great, grandsire.

Black Minorcas need a richer meal mixture than most fowls and my standard mash is equal parts by weight of bran, corn meal, white middlings and beef scrap, which is before them all the time. Of this mash they will consume astonishing quantities and turn nearly all of it into those great big, handsome eggs instead of fat, as many fowls would do with similar feeding. For the grain feed I use a ready-mixed grain mixture both morning and night except in mid-Winter, when I add equal parts of white cracked corn to the grain mixture. You will notice I said white cracked corn. I have found by experience that white corn gives better color to solid black or solid white fowls than the yellow, but it is often difficult to obtain.

With my chicks and young stock I religiously follow the Cornell method of feeding, as it seems to exactly fit their requirements for rapid growth and proper development.

Black Minorca chicks are sturdy little black and yellow imps and when once well hatched they grow at an astonishing rate. But they need plenty of green food that appeals to them in order to make the best growth. I have found dandelion greens the best of any so far and they seem to prefer them to any other, and fortunately they come very early. Some of the weights of growing chicks with me have been twelve to sixteen ounces at six weeks, two pounds at ten to twelve weeks, four pounds at four months, six to six and a half



1,500 Chicks around one stove

Also small sizes stoves. No hovers to bother with. No gas, no fumes, no wicks, no smoke. All bother and worry gone. Losses reduced to a minimum.

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The perfect brooder stove. Based on a new principle. Solves all your brooding problems. Perfect ventilation. Even temperature. No chance for disease.

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This wonderful new brooder will raise 20 to 50 per cent more of your chicks than you have been able to raise by old-fashioned methods. No more deaths from white diarrhoea and poor ventilation. It turns the losses from dead chicks into big profits for you. The Simplex soon pays for itself by extra money it makes. This wonderful new stove will double your poultry profits in a year—and it costs only one-fifth as much as other brooding systems. Send the coupon today.

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The Simplex Brooder Stove means one-tenth as much work—costs one-fourth as much to operate as any other system. Does away with all fuss and bother. Simply constructed—easily installed and cared for. It is self-regulating—needs no watching—eliminates all worry. Try it for 30 days free.

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Send the coupon today for valuable book that tells how to "Increase Your Profits by Decreasing Mortality"—absolutely free. It tells how to solve all your brooding problems. How to save the chicks that you have been content to lose every year through disease and faulty brooding—how to make twice as much money from your poultry. Tells how to eliminate all the work and worry of raising large broods of chicks. Complete instructions on the scientific building of a brooder house. Reliable information about fuel. Also catalogue and complete details of the wonderful Simplex Brooder Stove and our 30-day free trial offer. This valuable book absolutely free. You assume no obligations whatever. Read this book before you decide on next year's brooding system. Send the coupon today.

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LADY SEWARD.

1st prize winner at National Egg Laying contest, Mountain Grove, Mo. Record 223 eggs.
Bred by Richard M. Seward, Lewistown, Ill.

Buff Orpingtons

WIN AGAIN at Louisville, Ky., Nov. 22-27, 1-2-3 cockerel in a class of sixteen and also SWEEP STAKES PEN. I have plenty of high class stock for sale, all bred in line from our winners at Pittsburgh, Indianapolis, Columbus, Cincinnati, New Orleans, Nashville, Atlanta, Springfield, St. Louis and Louisville. Prices very reasonable. Mention American Poultry Journal.

O. M. ABBOTT - Box 10 - WHITELAND, INDIANA

pounds at six months with eggs starting to come when they make a weight of five and a half to six pounds. They grow very fast but do best when hatched early—early enough to have all the benefit of the new tender grass and weeds.

In culling I first take all those that don't grow as rapidly as the rest, the ones that seem forever getting started, as they seldom if ever make layers of any consequence. My next cullings are confined to those that have some glaring defect of either type, color or comb formation. In this way I keep my flock looking uniform and then after they are in full laying I look for imperfect, small or off-colored eggs, and the pullets that lay them go to the fattening pens as soon as discovered.

These various cullings, especially the first and the last, I consider of the utmost importance to keep the breed up to its established reputation of being prolific layers of the fanciest of table eggs.

Here is Your Chance to Save Money

Read This Letter—We Just Received it from San Jose, California

Simplex Supply House, Pontiac Building, Chicago, Ill.

Gentlemen:—The Simplex "Faultless" Poultry Feeder ordered from you some time ago has given entire satisfaction and is indeed "faultless" in every particular in our opinion, as is expressed by the enclosed order for twelve Grit Boxes and one-half dozen Dry Mash

229 S. 16th St., San Jose, Cal., Nov. 26, 1915.

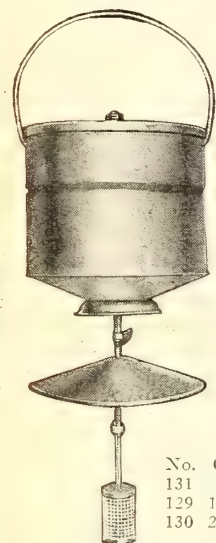
Feeders, all of which have been tested out to our entire satisfaction.
Thanking you for past courtesies, promptness and square-dealing, I remain,

Yours very truly,
S. N. GOLDY.

6-Quart only
~~\$1.20~~

~~\$1.60~~

10 Quarts
The Original



The original "Kant Klog" automatic feeder; feeds anything from millet seed to whole corn, either mixed or separate. Swinging pendulum motion — absolutely adjustable — simply impossible to clog.

Birds peck at grain in bait carrier, swinging pendulum and grain drops from cup under hopper to deflector and then on ground.

No.	Capacity.	Retail Price.	Our Net Price.
131	6-qt.....	\$1.50	\$1.20
129	10-qt.....	2.00	1.60
130	20-qt.....	2.50	2.00

We Sell Direct from
Factory to Consumer

Save 20% to 33 1/3%
By Buying Your Poultry
Appliances from Us

We specialize in the manufacture of automatic feeders, which save more time and more feed than any other appliance in the poultry yard. No well equipped poultry farm is seen today where automatic feeders are not used. On large farms they save the wages of at least one man. For small flocks they cannot be excelled. Filling the feeder once a week is a good deal less work than feeding several times a day. There will be no grain lying around on the ground, no loss from pilfering birds, rats and mice. No staying at home simply to feed the chickens.

In addition to cutting down the feed bills, automatic feeders increase the egg production of the hens. They will be in laying condition at all times, as these feeders give them the proper exercise and they digest every bit of grain they eat.

Be up-to-date and increase the profit from these fowls at least 25% by the use of automatic feeders. Made in styles and sizes shown hereon. We guarantee they give absolute satisfaction. If they do not, we refund the money. That's the guarantee under which we sell all our products—direct to the consumer at wholesale prices.

Simplex Supply House

Pontiac Building Chicago, Illinois

REMEMBER—Your money is refunded promptly if you are not satisfied.

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Smaller
Sizes
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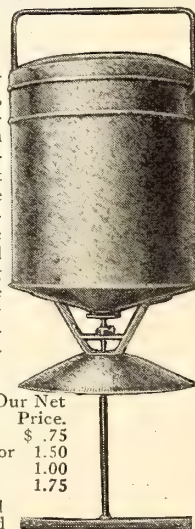
16 Quarts
Half-Bushel



This "Faultless" feeder feeds any kind of grain, either mixed or separate. Rotary pendulum motion, absolutely adjustable and cannot clog. It represents the biggest value ever offered in automatic feeders. Furnished complete, including cover and bail, at the following ridiculously low prices, made possible only by our enormous output:

No.	Capac.	Retail Price.	Our Net Price.
151	5 Qt..	\$1.00	\$.75
*152	1/4 Bu..	1.00 2 for	1.50
153	1/2 Bu..	1.50	1.00
154	1 Bu..	2.00	1.75

*Note—No. 152 packed two in box and not sold singly.



Our money-saving catalog describing Feeders, Brooders, Incubators, Grain Sprouters, Fountains, Feeding Troughs, Mash Hoppers, Grit Boxes, Brood Coops, Exhibition Coops, Trap Nests, Egg Carriers, Leg Bands and various Remedies and Preparations of merit will be sent upon request or upon receipt of your order from this advertisement.

CHICAGO COLISEUM POULTRY SHOW



CHICAGO COLISEUM POULTRY SHOW

A GAIN a wonderful exhibition of the best in Standard-bred poultry was seen at the Chicago Coliseum show, held December 10-15, 1915. It has been our great pleasure to attend this great exhibit every year since 1908 and we are now glad to be in a position to convey to our readers as best we may, the magnitude of this great National show.

I believe some of the former exhibitions have possibly seen more birds in competition, yet, without a doubt, the general quality thruout found at this 1915 show far excelled any seen in former years. Great credit should be given Mr. Theo. Hewes, the well-known judge and show man, and all those associated with him, not only in being able to establish a show of this magnitude, but for their great ability in being able to sustain their reputation from year to year, giving to the poultrymen and general public one of the greatest shows staged in America.

One of the features of the Coliseum show is their great system of cooping. This year was no exception to the rule. The coops were well arranged and ready as soon as the birds arrived. Sixteen of the best known and most capable judges to be found in America were engaged to officiate this year at Chicago and did their work to the general satisfaction of all concerned.

White Plymouth Rocks were, as usual, one of the best classes in the show. The White Plymouth Rock Club met at Chicago this year and found two of this country's most noted breeders competing for the honors, namely, H. W. Halbach and U. R. Fishel. When judges Johnston and Shellabarger had finished their work, honors were found divided; Mr. Halbach, however, winning most of the prizes. It was unquestionably one of the best classes of White Plymouth Rocks ever cooped at any show.

Barred Rocks were, as in former years, the largest class found at the Coliseum. Chicago has long been a Mecca for Barred Rock breeders from all sections of the middle west, and this year was no exception to the rule. Honors in this class were more or less evenly divided. D. F. Palmer & Son showed a fine string of birds and received their share of the ribbons. The birds shown by G. A. Walker were grand in type and color. His first prize exhibition pullet being an especially fine specimen. W. D. Holterman of "Aristocrat" fame was found well among the winners. John W. Yant, Mrs. Chas. Popham, Arthur Irwine, Howard Sears, Geo. Dyson, W. E. Cowan, D. M. Hammond, and Fred Bowers were well represented in these classes.

Partridge Rocks were shown in good numbers, of quality above the average. Meadow Lawn Farm made their first exhibit at a national show, establishing a grand record, winning every first but one, besides most of the other prizes. Their first prize cockerel was indeed a wonderful specimen.

Buff Plymouth Rocks was a fair sized class, many good birds shown.

About the usual number of Silver

Wyandottes was to be found at Chicago this year. With the old time veterans, namely Tarbox Bros. and Ira C. Keller, competing for the honors. Tarbox Bros. showing more birds and winning the majority of the prizes. Their wonderful Silvers are known all over America and the birds shown by them this year well sustained their reputation. The second cockerel, owned and exhibited by Ira C. Keller, was a fine specimen.

Golden Wyandottes were well shown. F. L. Clausen made his first exhibit at Chicago and with four entries succeeded in capturing first cock and first hen on birds that deserve special mention. Ira

Seventh Annual Exhibition of the Great Mid-West Poultry and Pet Stock Association, held at Chicago, December 10 to 15, 1915. Quality the Best Ever Seen at the Coliseum.

By F. D. Rogers

C. Keller was also a winner in this class.

White Wyandottes was one of the steller classes of the show, F. M. Eakin winning best display and most of the prizes. It is quite the habit of Mr. Eakin to make a great winning at this show. However, this year, he eclipsed all former records. His winning of 1st, 2d, 3d and 5th cockerels in a class of twenty-two grand birds was phenomenal. His first prize cockerel was a star and one of the best White Wyandottes ever seen at Chicago. J. H. Powers was another winner in this class and showed birds of fine type and finish. L. J. Demberger won 1st pullet in a class of twenty-seven (with only two entered). She was grand in type and color thruout and well deserved the place. Mr. Demberger also won 1st young pen on birds of grand type and color thruout. Elton C. Mahon was also among the winners in this class.

Buff Wyandottes were not a large class, but teemed with quality, with honors being divided between W. F. Schultz and Chas. Howison. Mr. Schultz's first pullet was grand in both type and color. The first cockerel shown by Mr. Howison attracted much attention and was much admired by many of the fanciers during the week. At the Panama-Pacific Exposition show held November of this year, Mr. Howison also won 1st cock and 1st cockerel with two birds entered.

Partridge Wyandottes, not a large class, Dr. G. S. Culver showing birds of good type and color and was well among the winners.

Rhode Island Reds, both Single and Rose Comb were very large classes and it is doubtful if any show held in this

country during the present season will excel or even equal the wonderful quality found this year at Chicago. The honors were principally divided between F. E. Harrison, Schenley Heights Poultry Farm, Longfield Poultry Farm and A. A. Carver. W. L. McMillan won first Rose Comb hen, Michael Coffey first R. C. pullet. The first prize S. C. cock bird and first prize S. C. pullet shown by F. E. Harrison deserve special mention, were remarkable specimens in both type and color. First S. C. cockerel shown by Schenley Heights Poultry Farm won the admiration of every Red fancier during the show, possessing wonderful type and grand color in all sections. First R. C. cock, owned by Longfield Poultry Farm, well sustained the reputation that is enjoyed by this farm, and was well placed. Chanticleer Farm won 3d S. C. pullet on one entry. Ed. W. Mahood made a fine showing, his 3d prize S. C. cockerel being a fine bird in both type and color, not shown in the best condition. The first prize S. C. young pen bred and exhibited by A. A. Carver was an exceptionally good pen thruout. Mr. Carver has long been noted as being one of this country's prominent breeders and to win first young pen in this, the keenest competition, speaks volumes for the quality of his stock.

Buckeyes were a good class. Elton C. Mahon won 1st cock, also 1st cockerel and the majority of the other prizes. His birds were of exceptionally fine quality and were well shown.

The old time Light Brahmas seemed to be again on the boom and a very large class was seen this year at Chicago. The annual club meeting was held here this year, being, doubtless, one of the reasons for their great showing. Many Eastern birds were to be found in these classes. Harvey C. Wood and J. W. Shaw winning most of the coveted prizes.

About the usual number of S. C. Brown Leghorns were on exhibition. Herman F. Rikhoff won most of the prizes, his birds, having good type and color. Roy J. Belsley and H. F. Becker were also among the winners. Classes in the R. C. were rather small.

The quality of the S. C. Buff Leghorns was above that usually seen. The classes were well filled and showed much quality thruout. Dr. L. E. Heasley won the majority of first prizes. His birds possess a wonderfully even shade of buff and are much nearer to real Leghorn type than usually seen in Buff Leghorns. The first prize pen cockerel was one of the best Buff Leghorn males ever seen at Chicago, grand in color and type thruout. F. S. Smith won 1st pullet with one entered. She was an especially fine specimen having a very even shade of buff in all sections. A real down-to-date Leghorn in every way.

S. C. Anconas were a small class, however, birds of good quality were to be seen. Cora A. Garbutt won 1st cock, 1st hen and 1st cockerel; several other prizes on birds of exceptionally



One of the main attractions at the recent Chicago Coliseum Show was the display pen shown by Mrs. J. H. Harnley, Zion City, Ill., containing her "champion pen" of S. C. White Orpingtons at the World's Fair, San Francisco, Cal., November, 1915. They were wonderful in both type and color, and won the admiration of hundreds throughout the entire week.—F. D. R.

fine type and color. Miss Garbutt is well known among Ancona breeders, having been among the winners for several years at this show.

Fairly good sized classes of S. C. Black Minorcas were shown. The well-known and popular Chas. G. Pape captured most of the coveted prizes on birds of grand type and color. John L. Brown was also a winner in this class.

Unquestionably no variety at the present time is gaining more in popular favor than the Sussex, both Red and Speckled varieties. Many fine specimens were found exhibited. Rawnsley-Shields Poultry Farm, A. C. Williams, Red Sussex Farms, Tarbox Bros. and A. A. Carver were among the prominent winners. Unquestionably the classes this year in these varieties excelled those ever seen at former shows.

S. C. Buff Orpingtons were one of the largest classes in the show. The club meeting being held this year at Chicago probably accounting in a degree for the many Buff Orpingtons present. Prominent among the winners we find A. C. Williams and Rawnsley-Shields Poultry Farm. These two farms won most of the prizes. J. W. Cruzan had one cock bird entered and won first. This bird was a grand specimen and well placed.

The Chicago show would not be complete without a large class of S. C. White Orpingtons. This year proved

no disappointment in this regard. The winnings were more or less divided, between Aldrich Poultry Farm, F. M. Gensch, Woolery Poultry Farm and Rogers Poultry Farm. Mr. Aldrich's first cockerel was a real dream, wonderful in both shape and color. F. M. Gensch was a most consistent winner, his first prize old pen possessing true Orpington type, were birds of fine color and well matched. Much the same comment could be made of first young pen owned by Woolery Farms.

Fair sized classes of Black Orpingtons were shown. Sylvester McCabe was among the winners.

Rogers Poultry Farm made a nice winning in Blue Orpingtons.

Houdan class small. Francis K. Cook was winner in the White Houdan class.

Fair sized classes of Dark Cornish with Dawdy and Dawdy being among the winners, their first prize pullet being an exceptional specimen of good color and extra fine type. The display of turkeys and water fowls and Bantams were not as large as seen in former years. Shoemaker Poultry Farm made a large showing in many classes of both poultry and water fowls, winning a goodly number of the prizes.

One of the fiercest contests for supremacy took place in Single Comb White Leghorn alley. It was literally a meeting of the East and the West. The three principal contestants were the

Rancocas Farms of New Jersey, Eugene C. Smith and Meadowlark Farm of Illinois and Frank E. Hering of Indiana. The cup offered by the Coliseum management for the largest number of points won by an exhibitor was awarded to Mr. Hering, whose total was 66; Mr. Smith was second in number of points with 43 and the Rancocas Farms third with 36. Individual honors likewise went to Mr. Hering, who was awarded first in three classes—cocks, cockerels and young pens. Rancocas was awarded first in hens and old pens and the Meadowlark Farm got first on a wonderful pullet. First cock was a beautiful specimen of good size, long back, plenty of coverts and strong head points. He was easily a class among the cock birds exhibited. Second cock was a trifle larger with a beautiful back and saddle. Third cock resembled the second in size and type but was not so well finished. Fourth and fifth were strong specimens, but not so strong in plumage as they will be a month later. The first hen was a beautiful fowl with a long back, splendid type and strong head points. There was little to choose between second and third which were only a degree less strong than the first. First cockerel was strong in every section, beautiful five-point comb, strong eyes, a long, perfectly moulded back with as well furnished saddle and flowing sickle.

(Continued on Page 123)



Campine breeders should carefully study the above picture, which shows to good advantage this wonderful cockerel, winning first at Chicago Coliseum, 1915. Owned by Martling Hennery, Ridgefield, N. J.



First Speckled Sussex cockerel, Columbus, Ohio, 1915. Undoubtedly one of the best cockerels shown to date of this ever popular variety. Bred and owned by A. A. Carver, Seville, Ohio.—F. D. R.



First prize White Wyandotte cockerel at the recent Chicago Coliseum Show was one of the real "stars" of the entire exhibition. Owned and exhibited by F. M. Eakin, Bucyrus, Ohio.



First S. C. White Orpington hen, Chicago Coliseum, December, 1915. One of the best White Orpington females seen this year. Bred and owned by Woolery Farm, Bloomington, Ind.—Unretouched Photo.



We would suggest our readers note the wonderful type found in this grand specimen winning first hen at the Buffalo Show, 1915, being an easy winner in her class.—F. D. R.



The above male is without a doubt a most wonderful specimen from every standpoint—a wonder in both type and color—a real study for every Orpington breeder.—F. D. R.



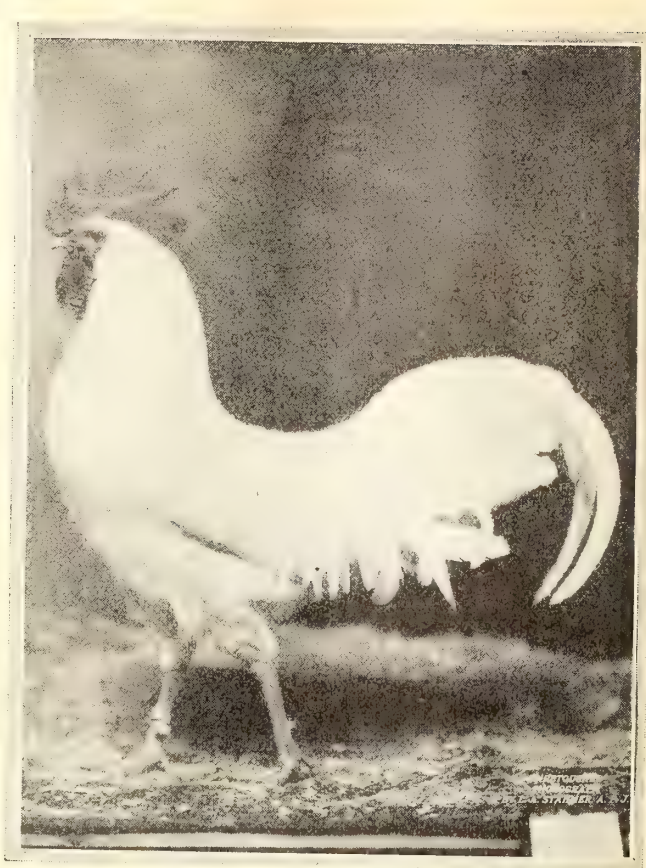
First prize cock, Chicago Coliseum, December, 1915, bred and owned by F. M. Eakin, Bucyrus, Ohio. Mr. Eakin is to be congratulated on his wonderful winnings at this great National show. This bird is typical of the many found in his yards.—F. D. R.



The above picture shows to good advantage the type found in W. F. Schultz's Buff Wyandottes. This particular male was 1st cock at the recent Chicago Coliseum Show, December, 1915. Mr. Schultz is located at Cuyahoga Falls, Ohio.—F. D. R.



First young pen Speckled Sussex cock, Chicago Coliseum, December, 1915. One of the best males of this popular variety shown to date. Bred and owned by Red Sussex Farm, Marysville, Mich.—F. D. R.



First young pen S. C. W. Leghorn cockerel, Chicago Coliseum, December, 1915. Note the well rounded breast and fine back and saddle. Owned by Frank E. Hering, South Bend, Ind.—F. D. R.



Silver Campine cockerel among the winners at the Chicago Coliseum Show, December, 1915. Especially good in both type and color. Bred and owned by Frank E. Hering, South Bend, Ind.—F. D. R.



Mrs. J. H. Harnly, Zion City, Ill., is well known as a breeder of S. C. White Orpingtons. The above pullet is one of the winners at the World's Fair, San Francisco, November, 1915.—F. D. R.



First prize S. C. W. Leghorn pullet, Chicago Coliseum, December, 1915, in one of the best classes ever seen at this show. However, this female was an easy winner. Bred and owned by Meadow Lark Farm, Elgin, Ill.—F. D. R.



First S. C. Buff Leghorn cockerel, Chicago Coliseum, December, 1915. Having extra good type and tail carriage. One of the best Buffs shown to date. Bred and owned by Dr. L. E. Heasley, Holland, Mich.—F. D. R.



First S. C. Buff Leghorn hen, Chicago Coliseum, December, 1915. Note the long back and well spread tail of this wonderful female. Owned and bred by Dr. L. E. Heasley, Holland, Mich.—F. D. R.



First Blue Plymouth Rock pullet, Chicago Coliseum, December, 1915. One of the best females of this new variety shown to date. Bred and owned by Fishel & Hasselman, Hope, Ind.



Rawnsley-Shields Farm, of Columbus, Ohio, showed a wonderful string of Buff Orpingtons at the recent Chicago Coliseum Show. The hen in the above unretouched picture was winner of first prize.—L. A. S.



Comment on this beautiful Buff Orpington pullet, the first prize winner at Chicago Coliseum, is unnecessary, as the unretouched picture shows off the remarkable type and even surface color of the bird better than it can be described in type. An easy winner in a hot class. Rawnsley-Shields Farm, of Columbus, Ohio, are the owners of this beautiful bird.—L. A. S.



First prize S. C. White Leghorn cockerel, Chicago Coliseum, December, 1915, is of good type thruout and chalk white in color. Owned by Frank E. Hering, South Bend, Ind.—F. D. R.



One of the winning S. C. Black Minorca cocks at the Chicago Coliseum, December, 1915, is indeed a fine specimen, and typical of the many owned by John L. Brown, Anderson, Ind.—F. D. R.

His type was finer than that of the other winning cockerels and his plumage was snow white. The second and fourth cockerels were very much alike, each being larger than the winner of the class. The judge stated that this was the strongest cockerel class ever exhibited by the Coliseum. The first pullet was easily the best Leghorn female in the show. She had size, long back, with a well-spread tail and stood out easily as the real sensation in the class. The second and third pullets were good sized Leghorns with long backs, well-spread tails and pure white plumage. In fact, there were unplaced pullets of sufficient strength to win first in many Leghorn shows of quality. The judges had a difficult time in determining the honors among the first old pens. It was finally given to the Rancocas Farms especially thru the strength of a magnificent male. Mr. Hering was given



Especially good picture of a wonderful bird, both in type and color, possessing many of the qualities of a great breeder. Was first Buck-eye cockerel, Chicago Coliseum, December, 1915. Owned and exhibited by M. B. and H. W. Deem, Eaton, Ohio.—F. D. R.

second and third places in this class. The male heading his old pen suggested in type and in various sections the cockerel that won the honors in the single class. In the young pens first place went to Mr. Hering by a good margin. Mr. Smith won second and fifth, with the Meadowlark Farm getting third, and Rancocas fourth. The males were all very strong and the females carefully mated.

SILVER CAMPINES.

The Campine Club of America held its annual meet at this show and for the first time in the history of Silver Campines, three of the foremost prominent breeders met to determine the mastery—Messrs. Jacobus and Martling from the East and Frank E. Hering from Indiana. Mr. Jacobus won three firsts, Mr. Hering two firsts and Mr. Martling one first. But Mr. Hering won the challenge cup offered by the Campine Club of America for the greatest number of points scored. Mr. Martling second and Mr. Jacobus third. All of the awards were divided among these three breeders. Mr. Hering getting fourteen places, Mr. Martling nine and Mr. Jacobus seven. First cock was a beautifully barred male with a white hackle. The principal defect was lack of station. The second cock was not so well

FARRANT'S Single Comb BROWN LEGHORNS

Again proved their class by winning eight places on eight entries, second best display and Judges' Cup at the Grand Central Palace, N. Y., Show, December 7 to 11, 1915. Show birds that will win for you at prices that are right. Send for circular.

F. M. FARRANT

745 Prairie Ave.

KALAMAZOO, MICH.

BLUM'S PURE BRED Day-Old CHICKS

We have four varieties all hatched in Candee Mammoth machines. We have 10,000 eggs per hatch. Our equipment is so automatically arranged that we can sell you the chicks at the following low prices. Single Comb White Leghorns and Barred Plymouth Rocks our Specialty.



	Per 25	Per 50	Per 100
Barred Ply. Rocks...	\$3.00	\$5.50	\$11.00
S. C. W. Leghorns...	2.75	5.00	10.00
S. C. Brown Leghorns	2.50	5.00	10.00
Broiler Chicks.....	2.00	4.00	8.00

Chicks all hatched from the very best free range utility stock. Satisfaction guaranteed. Will also have a few Barred Rocks and S. C. White Leghorn chicks to offer from fine exhibition matings. Also have eggs for hatching and a full line of colony brooders. Will be ready to ship chicks after March 6th. Get your orders booked now. Catalog and price list free. Mention A. P. J.

FRANK BLUM

Dept. A

Rural Route No. 2

NEW WASHINGTON, O.

Get Started Right This Year

With a Good Strain of

S.C. White Leghorns

We not only have the facilities for shipping chicks in large numbers, but better still, we have a grade of stock that you will find hard to equal from any other plant in the country.

We know how good our stock is, and how it ranks with other breeders, yet we never make rash claims and statements about the tremendous laying qualities of our birds. We probably have as many 200 to 250-egg layers as any breeder in the country, but every bird does not lay this quantity of eggs, and chicks from our stock would not average these numbers. However, we are breeding from our best, year after year, and expect at some not distant date to be able to advertise a genuine 200-egg strain.

One customer who placed a small order with us as late as July 8th last year got as high as 252 eggs from one bird, and twelve others beat 200 eggs. Our strain will average, one with another, either in large or small flocks if kept under proper conditions, about 75 eggs, and it is the good average egg yield that tells the story at the end of the year and not the lone individual.

Our stock is more advanced in other ways besides laying qualities; no strain on earth has more stamina and vitality, and chicks purchased from us are consequently very easy to raise. All our breeders are bred from large white eggs from pure white stock that will weigh a little more than the average Leghorn.

We Want Your Order for Chicks this Year

Our prices are no higher than for common, haphazard bred Leghorns. Our hatching capacity takes care of 50,000 eggs at one setting, and all our Leghorns are hatched from one strain; not purchased promiscuously all over the country.

We shall be ready with

5,000 CHICKS A WEEK IN FEBRUARY
12,000 CHICKS A WEEK IN APRIL

10,000 CHICKS A WEEK IN MARCH
12,000 CHICKS A WEEK IN MAY

Our prices vary from 13c to 17c a chick, according to whether you buy in lots of 25 or 5,000. We make prompt deliveries, and ship in the best possible manner.

Once a customer, always a customer. That's what keeps our plant growing bigger and bigger every year.

Eggs for hatching, 90% guaranteed fertile at only \$8.00 per 100; cheaper in 1,000 lots. Special matings from high class record layers, the finest on our farms, \$3.00 and \$5.00 a setting.

Grand cocks and cockerels for sale, weighing from 4½ to 7½ pounds. Special low prices on high class Trios and Pens.

Send for our 96-page catalog, which fully describes our Leghorn plant. It is well worth \$1.00 to every new beginner. Free for the asking.

THE EVERLAY FARM - Methuen, Mass.

(THE LORD FARMS)

BOX 240-M

Friesner's S. C. White Leghorns

We won at the Panama-Pacific Exposition 6th pen, 8th pullet and 8th hen. Zanesville, O., December, 1915, 1st and 2nd pullet, 1st pen, 3rd hen. Special best pullet in medium class.

Breeding Cockerels.....\$ 2.00, \$ 3.00 and \$ 5.00

Breeding Pens.....\$10.00, \$12.50 and \$15.00

Mating list ready January 15th.

J. W. Friesner & Son Box C Bremen, O.



1st Cock, New York State Fair, 1914

Hatching Eggs and Day-Old Chicks

from the

"Million Egg Farm"

5000 S. C. White Leghorn Eggs per day



1st Pullet, Grand Central Palace, N. Y., 1914

You can get fresh S. C. White Leghorn hatching eggs shipped when you want them from eggs laid in a single day. These eggs are laid on the RANCOCAS POULTRY FARM by choice, selected, fully-matured hens, bred for high egg production. Every breeder of our big, husky Rancocas strain—"The Laying Line"—has the style and finish of Standard Leghorns.

100 Per Cent Fertility. Over 1,100 customers in 41 States bought 146,000 hatching eggs from us last season. This year we can supply 200,000 hatching eggs—everyone with a guarantee behind it of 100 per cent fertility. No orders too small or none too large—all customers get the same quality and service. Don't wait until the rush season is on, but let us book your order NOW.

Day-Old Chicks—Delivery Guaranteed. A live chick guaranteed at your express station for every one ordered. All chicks sold are from eggs laid on our own farm and hatched just like the chicks we keep to supply our own flock. Order early, for even with our enormous incubator capacity and large flocks of layers, we cannot always fill orders unless booked ahead. Order today, and make sure of getting chicks when you want them.

Send today for free booklet, giving prices of S. C. White Leghorn hatching eggs and day-old chicks, produced at Rancocas Poultry Farm—"The Million Egg Farm."

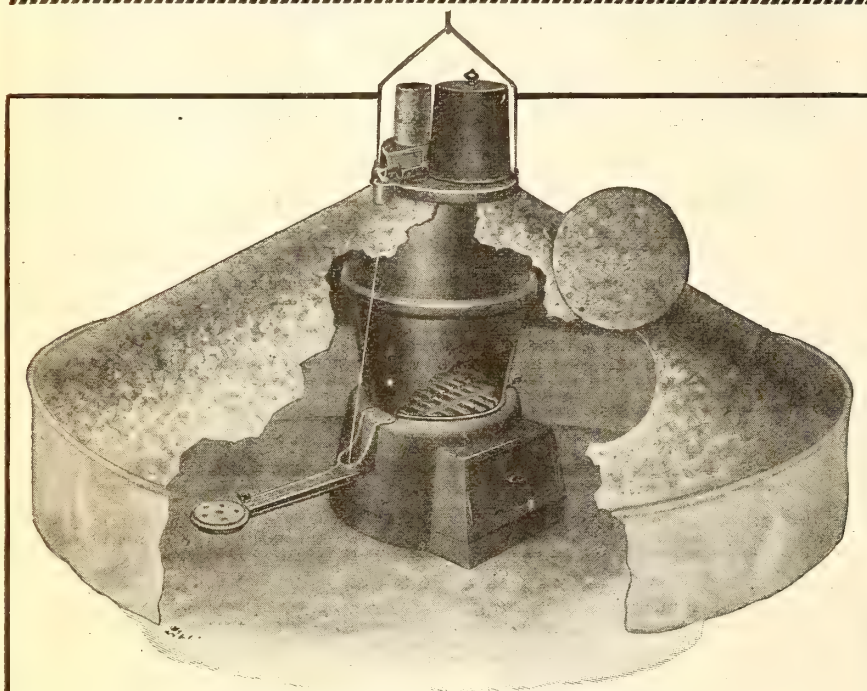
Prize Winners. We breed winners for such shows as Madison Square Garden, where we won first pen February, 1915; New York State Fair, winning the Harriman Cup for best display of Leghorns; Buffalo, winning four first prizes; and winners of high awards at Chicago, Boston, Philadelphia and St. Louis. These winners and others just as good are mated in special pens. Our special mating list gives full description of these winning birds. This booklet is of great value to anyone interested in exhibition breeding. Send for free mating list.

RANCOCAS POULTRY FARM Box 638 Browns Mills, N. J.

barred, but was stronger in type than the first. Neither of the other three males was in a class with the first two. The first hen was a good sized fowl with clear barring. The other specimens in the class had type and strong barrings, but were not as well finished as they will be a month hence. The first cockerel was a male well up to weight, of good type with strong barring and a white hackle. The second cockerel ran him a close race. The judge must have had a difficult time in selecting the other places among the twenty-five or more cockerels entered. No class brought out so distinctly the difference between the East and the West as the pullet class. The pullets exhibited by the Western breeders were in general smaller than those exhibited by the Eastern breeders with finer lines. The Eastern females in general were more rugged fowls and the Western females were trimmer in



First prize Buttercup hen, Chicago Coliseum, December, 1915, bred and exhibited by M. A. Hansen, Osage, Iowa. It is a grand specimen, being especially well marked and of fine type thruout.—F. D. R.



New Buffalo Brooding Stove with 52-inch Hover.

Magazine Feed. Rocking Clinker Grate.

Automatic By-Pass Check on Draft which keeps a Steady, Moderate Fire, Essential to a Successful Coal Burner.

This is the Brooding Stove you are looking for. Send for Circular Today.

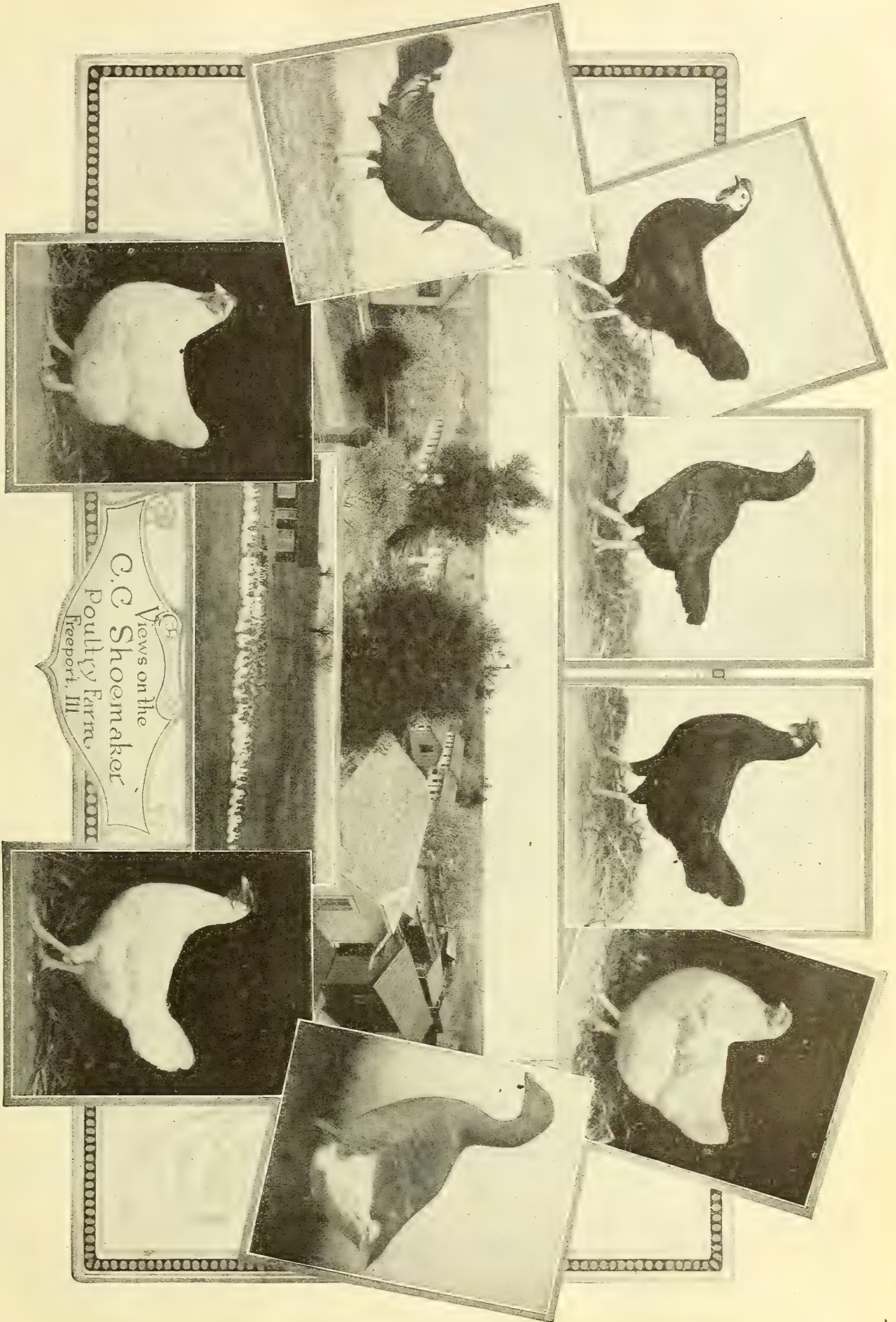
Chas. A. Cyphers, President

Buffalo Incubator Co., 465 Dewitt Street Buffalo, N.Y.

every section. The first pullet which was also the best colored female in her class, was a beautifully barred fowl with pure white hackle and the trimness of a Leghorn. The other honors in this class were determined pretty largely by the barring of the respective females. In old pens the males and females were chosen with as much care as if each was entered for honors in a single class. The cock heading first old pen had the best type of any Campine male exhibited and the females were carefully chosen so as to harmonize as nearly as possible. In young pens it was not quite so easy to follow the reasons that influenced the judge, as second and third old pen seemed to be stronger than first old pen. There were both males and females in these pens that if they had been entered in the singles would have stood excellent chances of winning individual honors. All in all the classes were the strongest ever exhibited in this country.

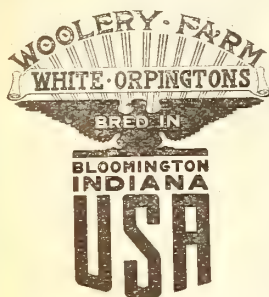
The well arranged booths occupied their usual spaces around all sides of the Coliseum and added much to the general appearance of the show thruout. Upon entering the show room at the left we found the Schwalge-Smith Co. The well-known sectional incubators manufactured by this company is fast gaining favor with poultrymen everywhere. Mr. Schwalge, in charge this

The above shows a partial view of the C. C. Shoemaker Poultry Farm and a few of the many varieties of poultry bred on this farm. This farm won twenty-three blue ribbons at the late Coliseum, Chicago, Show.



Woolery Farm's Original American Bred-to-Lay White Orpingtons Are Champions at the Chicago Coliseum

THE NATIONAL CLUB SHOW



We won First Display; 2nd, 4th and 5th Cock; 1st and 5th Hen; 3rd Cockerel; 1st and 3rd Young Pens. Championship Cup for Best Display. Cup for Three Best Cocks. Cup for Four Best Females. Cup for Two Best Young Pens, with other Club Trophies and Ribbons.

Every bird of WOOLERY FARM'S winners at the best shows in the country for the past seven generations are AMERICAN BRED-TO-LAY line bred on WOOLERY FARM by Ralph Woolery.

If you want the best winners for any show, birds that have the laying ability and individuals that will breed you winners, write us for quotations from the "Best Line of Males in the Country." We'll sell you a bird to show and win anywhere; ship him in perfect condition, at a fair price. We can send you a Cock, Hen, Cockerel, Pullet or a Pen to win as easily.

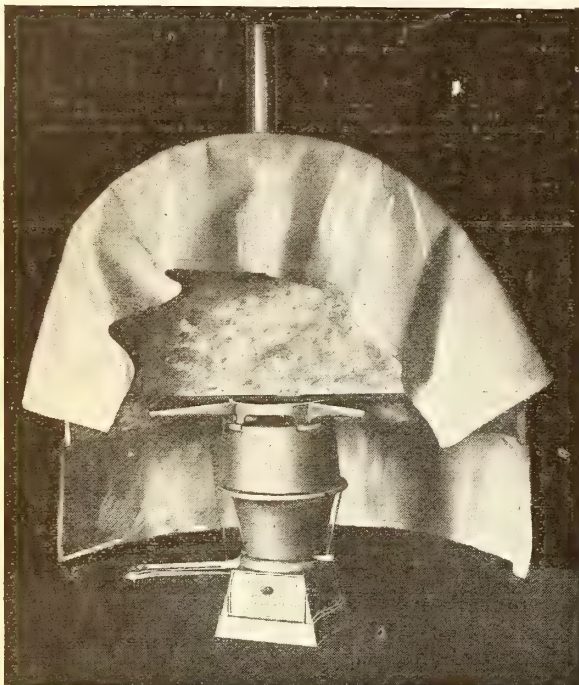
Our yards are mated NOW for the egg trade. Our mating list will be ready January 15th. WRITE FOR ONE OF THE FIRST. BIG catalog free.

WOOLERY FARM Box A BLOOMINGTON, IND.

The Dandy Coal Burning Colony Brooder

The one brooder selling at a very low price that will do all that the higher priced brooders will do.

It isn't enough to hatch your eggs—the big thing—the thing that really counts—is to save all your chicks. And you can do it with the



Dandy

Coal once in 24 hrs.
Think of the labor
saved.

Built of cast iron to
last a lifetime.

Burns coal or gas.

Increased profits.
No lost chicks.

Because we make no wild statements telling why the Dandy Brooder is better than others, don't think it is a cheap, flimsy brooder. It is far from that. We own a large commercial egg farm where all our models are tested. We use the same brooder we are offering you.

Our factory is equipped with the best up-to-date machinery run by water power. Skilled labor is cheap in this locality and our overhead expenses are small. The large saving over other manufacturers' costs goes into the construction of the brooder. Large volume of sales—small profit per sale is our idea.

\$15 Means Chick Insurance

Surely you will not let this amount stand between you and success. Write us for complete literature. We want hustling agents.

North Eastern Mfg. Company, Inc., Box A, Keeseville, N. Y.

year, was kept busy explaining the details of his well-known machine to the many poultrymen interested in this line.

Next we found the Cyphers Incubator Co. A poultry show of any size would be incomplete without an exhibit from these well-known manufacturers. Mr. Sidney Smith, the well-known manager of their Chicago branch, was in charge, being ably assisted by Mr. Risk, who is becoming well known to the poultrymen thruout the middle West. Poultry supplies of every nature was to be found at this booth and attracted much attention.

Next we visited the booth of the Candee Incubator Co., of Eastwood, N. Y., where we found one of their 1,200-egg machines, complete in every detail and ready for use. This particular machine attracted a great deal of attention and was sold very soon after the show was opened.



First prize Buff Wyandotte cockerel, Chicago, December, 1915, is of wonderful type and color. Bred and owned by Chas. Howison, Sandwich, Illinois.

The Quaker Oats Co., of Chicago, Ill., occupied a large space at the north end of the Coliseum and deserve great credit for the fine exhibit.

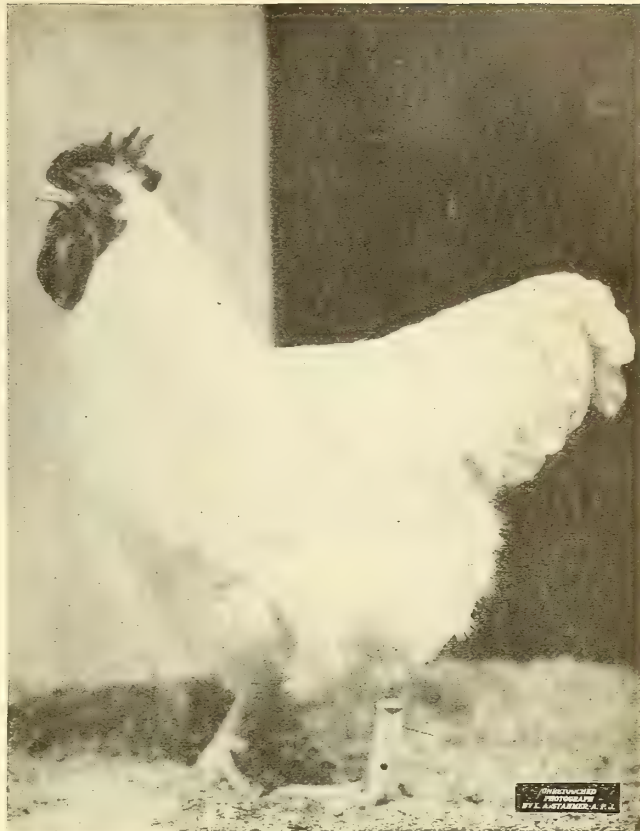
The Hall Mammoth Inc. Co., of Little Falls, N. Y., had on exhibition one of their 1,200-egg machines, as well as their well-known Colony Brooder, complete in every detail. Mr. A. Wood was kept busy demonstrating to the many interested the details and fine points of their machines.

Edwards & Loomis, of Chicago, Ill., manufacturers of the Red Comb Poultry Feed, had a very attractive booth in charge of Mr. John Plane, who is as well known to the poultrymen of the middle West as their Red Comb Feed. The booth was tastefully decorated in patriotic colors and was much admired by all who visited the show.

M. R. Jacobus, of Ridgefield, N. J., had a small and attractive booth, the first time at Chicago, showing his Patent Moisture Nest. The Prairie State Milling Co., of Chicago, Ill., had a very well-lighted and attractive booth showing to full advantage the well-known grains and feeds sold by this company. Albert Dickinson Co., of Chicago, Ill., had on exhibition a great globe of grain, being first exhibited at the World's Fair in 1893, while old in years, was much admired thruout the week. Darling &



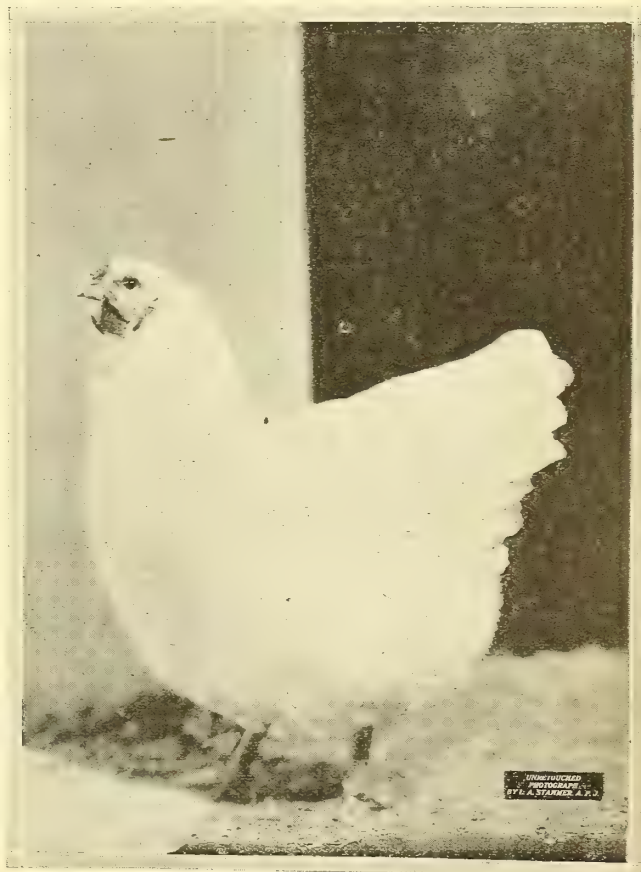
"Wonderful in type and color," was the comment of many judges at Chicago in regard to this S. C. R. I. Red cockerel. Bred and owned by Chiles & Co., Mt. Sterling, Ky.—F. D. R.



The Chicago Coliseum Show has long been a "Mecca" for White Orpington breeders. The above is the winning male in the first old pen, owned and exhibited by F. M. Gensch, Omro, Wis.—F. D. R.



E. J. Harbin, of Riverside, Ill., made his first entry of White Orpingtons at the Chicago Show. The bird shown in above picture won first at Quincy, Ill., and headed one of the winning pens at the Coliseum.—F. D. R.



A real Wyandotte in every sense of the word, is the above female, that had the honor of winning 1st in pullet class at the Chicago Coliseum Show, December, 1915. Bred and exhibited by L. J. Demberger, Stewartsville, Ind.—F. D. R.

Co., of Chicago, had on display poultry feeds and meat crisps manufactured and sold by them, creating much favor among poultrymen. The booth of J. J. Badenoch Co., of Chicago, was tastefully decorated with American flags. The fine souvenirs given away by this concern brought many people to their booth. The Vaughan Seed Co., occupied their usual space and had on exhibition the well-known Prairie State Incubator and various supplies and poultry appliances in which all poultrymen are interested.

The Axford Round Incubator Co., of Chicago, Ill., had on exhibition many of their machines, also poultry supplies sold by them. The Licene Co., of Chicago, well known to all poultrymen thruout Chicago and vicinity, were kept busy thruout the week demonstrating and showing their well-known remedies.

The well-arranged and tastefully decorated display pens have always been a feature of the Coliseum Show. Upon entering the Coliseum this year the first pen near the entrance to command our attention was that of Mrs. J. H. Harnly, of Zion City, Ill. Mrs. Harnly was fortunate in capturing this year at the World's Fair in San Francisco, Cal., Thanksgiving week, Grand Champion White Orpington male and also first pen, two of the most coveted prizes at this great world's fair. Next to the pen occupied by Mrs. Harnly we found on display first prize White Plymouth Rock male, owned by U. R. Fishel, of Hope, Ind. He is a most magnificent specimen, and to win first in the competition found this year speaks volumes of the quality of this grand bird.

The name of Halbach, of Waterford, Wis., suggests in itself the best to be found in White Plymouth Rocks. In

a large display pen near the center of the Coliseum we found his wonderful cock winning first at this year's show. This particular bird also had the honor of winning first cockerel here last year, and in the opinion of well-known judges



Second S. C. Buff Orpington cockerel, Chicago Coliseum, December, 1915. Extra fine type and grand even shade of buff thruout. Bred and owned by Jessie F. Gordon, Spring Valley, Minn.—F. D. R.

and breeders he is one of, if not the best, to be found anywhere in America. In the double display pen occupying space in the center of the show room was found the first prize S. C. White Leghorn cockerel and cock, owned and exhibited by Frank E. Hering, of South

Bend, Ind. Mr. Hering, for some years, has been a consistent winner in this particular variety. These two winning males are fine specimens and Mr. Hering deserves the honor he received.

The next two display pens were also owned by Mr. Hering, consisting of males and females of wonderful egg laying qualities with affidavit attached to the coops showing their ability along this particular line. The birds in these two pens consisted of S. C. White Leghorns and Silver Campines.

In the well-arranged and tastefully decorated pen next to those occupied by Mr. Hering we found on exhibition a fine Buff Orpington cock bird, owned and bred by A. E. Martz, of Arcadia, Ind. The many prizes won by Mr. Martz at the leading shows thruout this country has well established his Fashion Plate Strain, and the bird owned and shown by him this year at Chicago we consider a masterpiece of breeding.

In the display pen of Dr. L. E. Heasley, of Holland, Mich., was to be found two very promising cockerels of his famous "Egg Basket" strain.

The Blue Ribbon Poultry Farm, Columbus, Ind., won first prize Black Orpington cockerel in the show at San Francisco, Cal., November 18-25, 1915, and had him on display at this show.

A pen of one of the newer varieties, Blue Plymouth Rocks, was shown by U. R. Fishel and F. H. Hasselman and attracted much attention.

WHITE PLYMOUTH ROCKS.

First cock, H. W. Halbach; of wonderful type and station, magnificent carriage thruout; was first cockerel at this show last year. 2d cock, H. W. Halbach; of similar type thruout. Head not quite as good as that of first bird. 3d cock, H. W. Halbach; very beautiful



WETMORE'S WHITE WYANDOTTES

VICTORIOUS WINNINGS

From the great Pan-American Show in 1901 up until the present day, my White Wyandottes have won consistently their share of Sweep Stakes, Championship and coveted prizes. Recent Winners at the National White Wyandotte Club Meet at Buffalo, 1915.

300 GRAND WINNING SHOW BIRDS

The finest I have ever produced are now ready to win blue ribbons for you. In exhibition cocks, hens, cockerels, pullets and pens I can furnish you winners at bargain prices. Liberal guarantee on all Sales. A square deal to all. Buy NOW.

C. S. WETMORE

906 Abbott Road

LACKAWANNA, N. Y.

Ship your eggs to the city in Sefton Egg Shipping Boxes

for express or parcel post. You can be perfectly sure of their safe arrival; the corrugated board protects them; light, strong and economical.

You'll be interested in our booklet on express and parcel post shipments; it covers the subject thoroughly.

"Ask your paper jobber"

The Sefton Mfg. Co., 1329 W. 35th St., Chicago, Ill.

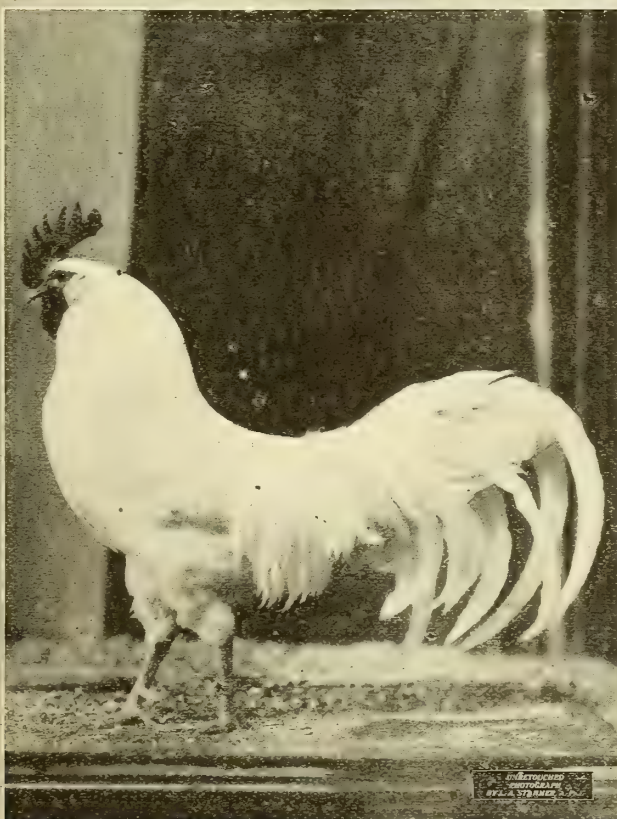




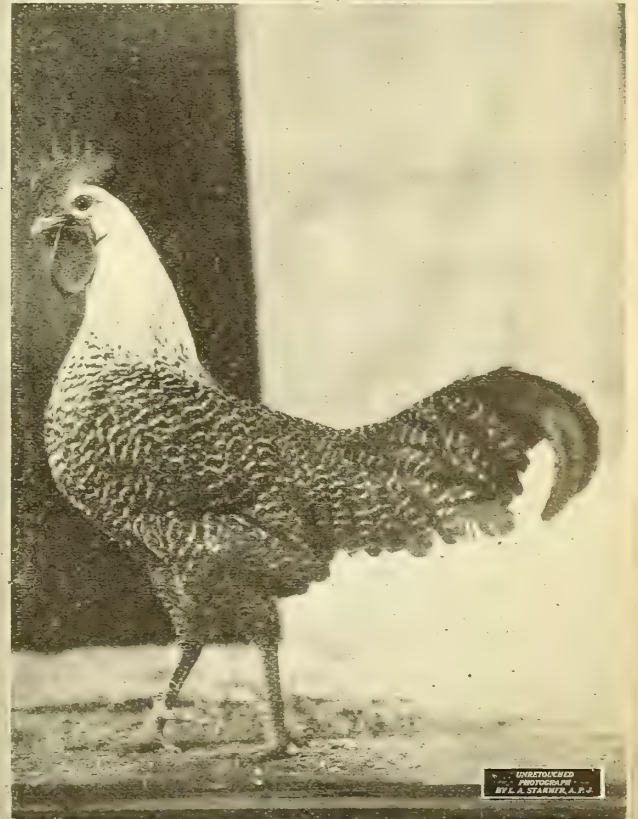
Undoubtedly as near to perfection as any bird of any variety ever produced is this the first White Plymouth Rock cock, Chicago Coliseum, December, 1915. Bred and owned by H. W. Halbach, Waterford, Wis.—F. D. R.



The first prize White Plymouth Rock Hen at Chicago, bred and owned by H. W. Halbach, Waterford, Wis., is a most beautiful specimen of the breed and one of the best we have handled for some time. L. A. S.



F. E. Hering, of South Bend, Ind., showed a great line of his White Leghorns at the recent Chicago Show. The first prize cock above was an easy winner in a hot class.—L. A. S.



The Campines exhibited at the Coliseum Show showed remarkable improvements in type and color over former exhibits here. Mr. Hering's fifth cockerel shows that so much desired modern type.

Stock and Eggs for Sale

from our prize winners at all the leading shows.

White Crested Black Polish
White Silkes
Black Cochin Bantams
Black Rose Comb Bantams
Plain White Polish Bantams

McCAMMON & MYERS GETTYSBURG, Pa.

Send the Cornell Hen

Send for catalog of seven different kinds of poultry. We are now shipping eggs at a popular price. All guaranteed, delivered and insured to your door without extra cost. We are incorporated, paid in capital \$40,000.

Cornell Company, Gt. Barrington, Mass.

Banks' S. C. Reds

Winner A. P. A. Gold Medal

Best Cockerel, Harrisburg, Pa., Dec., 1915

Satisfaction guaranteed.

Send for Mating List.

M. H. Banks, Dillsburg, Pa.

Chestnut Terrace Buttercups

Winners of the Blue at

The Palace, Buffalo, Syracuse, Auburn

A few Cockerels for sale. Orders booked for Eggs for hatching. Send name for Mating List.

Mrs. Hattie D. Reed - Marcellus, N. Y.

LOST!

Is the effort and feed on your hens during the winter months if they have lice. They will not lay. Come, look after this loss. Get a good remedy while you are at it. Value not measured by bulk, but by effectiveness. An Ointment easily applied. A convincing box pre-paid for 50 cents.

WHITE CITY EGG FARM - SEVILLE, OHIO

Deem's Aristocrat Strain Buckeyes

They always win for us, they will do the same for you. Now booking egg orders on Pen 1, mated from Chicago Coliseum winners.

Pen 1, 15 eggs \$5 Pen 2, 15 eggs \$3

20 ARISTOCRAT COCKERELS AT WAR TIME PRICES

Write for our catalog, it tells the story of the wonderful winnings of our Aristocrats. This is our latest win. At American Buckeye Club Show,

CHICAGO COLISEUM
1st hen, 2nd and 6th cock.

Write us today for catalog. We prepay express.

BUCKEYE POULTRY YARDS, Eaton, Ohio



30,000 Chicks for 1916

from four varieties at the following low prices:

	Per 25	Per 50	Per 100
Barred Ply. Rocks...	\$3.00	\$5.50	\$11.00
S. C. W. Leghorns...	2.75	5.00	10.00
S. C. Brown Leghorns	2.50	5.00	10.00
Broiler Chicks.....	2.00	4.00	8.00

Chicks all hatched in Candee mammoth machines. Write for free catalog and price list, and mention American Poultry Journal.

MISS BARBARA BLUM, Dept. C. New Washington, Ohio

bird with excellent head points; the only place he falls below 1st and 2d is on account of not being quite as massive a bird.

First hen, H. W. Halbach; beautiful head, broad in back, good sweep of tail, fine type. 2d hen, H. W. Halbach; similar type as first bird, losing to her on head points. 3d hen, H. W. Halbach; same type thruout; similar to 2d hen in every respect.

First cockerel, U. R. Fishel; grand, well-finished bird, beautifully shown. 2d cockerel, H. W. Halbach; extra good in back and breast, absolutely white, fine head points. 3d cockerel, H. W. Halbach; good bird thruout, losing to 2d on head points.

First, 2d and 3d prize pullets, H. W. Halbach, are so absolutely near alike we don't think it necessary to comment on them individually. The same general characteristics was shown by all three birds.



Second prize Buff Orpington cock, Chicago Coliseum, December, 1915; fine headpoints, good type, having a very fine, even shade of buff. Owned and exhibited by E. L. Bemis, Fond Du Lac, Wis.—F. D. R.

First old pen, H. W. Halbach. This pen contained four grand females, snow white and fine type, mated to a cock bird which we consider second only to the first prize cock bird. Easy winners in their class. 2d old pen, H. W. Halbach; containing four females of very even type and snow white plumage, mated to cock bird of excellent type and color. 3d old pen, U. R. Fishel; containing four snow white females mated to a male of good color and type, would ordinarily be winners in strong competition.

First young pen, H. W. Halbach; cockerel in this pen is one of the best production of the season, being almost true type and snow white. Females of this pen being very evenly matched of excellent type and color. 2d young pen, U. R. Fishel; cockerel of this pen is not as good in type as first pen cockerel, very good color and good head points, not fully finished. Females smaller than first pen females, otherwise nearly equal to first pen females. 3d young pen, H. W. Halbach; cockerel of this pen shows promise of making a wonderful bird, being very strong in type and color and head points. To him are mated four very even type females of good color.

BUFF PLYMOUTH ROCKS.

First cock, Linneman Bros.; fine type and very even color, light shade of buff, good eye and head. 2d cock, Casper Moore & Son; fine shade of buff, not as even as first bird; also losing to first in type. 3d cock, John J. Cheffer; very rich buff color, smaller than first bird, lacks in breast shape. First hen, Casper Moore & Son; unusual in type, rather light in color, but even, fine eye and head. 2d hen, T. H. Lucas; rich golden buff, losing to first hen in type, head points and color of eye. 3d hen, T. H. Lucas; losing to first and second in color and type, little undersize.

First cockerel, Casper Moore & Son; fine type and color, trifle dark on wings; easy winner in this class. 2d cockerel, Rothgeb Bros.; bird of good type and color, not fully matured, dark in wing bar same as first bird. 3d cockerel, Marion H. Culver; of fine type, rather immature; losing to first and second in type.

First pullet, Rothgeb Bros.; excellent in type and color, fair head and comb. 2d—pullet, Casper Moore & Son; not as good type as first bird, practically same color, rather short on legs. 3d pullet, C. H. Barnes; losing to first and second on type, color too dark, rather shafty.

First old pen, C. H. Barnes; cock bird of rich golden buff, good type, mated with four rather dark females of very even shade of buff.

PARTRIDGE PLYMOUTH ROCKS.

First cock, J. L. Staller; good color and type, lacking a trifle in breast shape. 2d—cock, Ed. J. Wagner; losing to first bird in both color and type; fine head and good eye. 3d cock, Meadow Lawn Poultry Yards; fine color and type, unfinished, not in show condition.

First hen, Meadow Lawn Poultry Yards; wonderful color thruout, rather short on legs, fair type, trifle small. 2d hen, P. J. Olle; lighter in color, not quite as well marked as first hen. 3d hen, P. J. Olle; not as well marked as second hen, practically same type, comb not as good.

First, 2d and 3d cockerels, Meadow Lawn Poultry Yards; 1st bird outstanding in every way to others in the class, shows every indication of making a wonderful bird. 2d bird lacking in color, not as good type, trifle shy on breast shape. 3d bird losing to first and second in both type and color.

First, 2d and 3d pullet, Meadow Lawn Poultry Yards; 1st bird rather large in comb, wonderful type and color. 2d bird losing to 1st in type, smaller and not in best of condition. 3d resembles second very much, lacking in type and breast shape.

First old pen, J. W. Hunt & Son; cock bird of this pen shows very good Plymouth Rock type, fine color; females finely marked and good type. 2d old pen, P. J. Olle; cock bird of this pen not as good in type as first pen cock bird; females not as even in size or type.

First young pen, Meadow Lawn Poultry Yards; excellent male bird, promise of developing into a very good cock bird, being of good Rock type, not fully finished; females very well marked and of good type. 2d young pen, P. J. Olle; cockerel of this pen not as good in type as first pen cockerel; females of good type, not as even in color as first pen females. 3d young pen, J. W. Hunt &



WHITE ORPINGTON
FIRST PRIZE COCKEREL ~ BUFFALO, 1915
bred and owned by
ALDRICH-POULTRY-FARM ~ COLUMBUS, OHIO

A most promising bird from every standpoint is this wonderful male, winning first at the great Buffalo Show, and only one of the many annually bred by this well known farm.—F. D. R.



WHITE ORPINGTON
FIRST PRIZE COCKEREL ~ ALLENTOWN, 1915
bred and owned by
ALDRICH-POULTRY-FARM ~ COLUMBUS, OHIO

All breeders everywhere are familiar with the wonderful classes seen annually at the great Allentown Fair. The above picture shows to good advantage the first prize W. Orpington cockerel.—F. D. R.



White Houdan hen from first prize pen at Chicago. This new breed attracted great attention. The above hen shows fine breed type and a most beautiful crest. M. L. Starks, of Starks, Wis., is the owner.—L. A. S.



The above picture shows one of the S. C. White Orpington males owned and bred by Rose City Poultry Yards, New Castle, Ind., is a large, massive bird of good type and color.—F. D. R.

Son; cockerel of this pen not as matured nor of as good type as either first or second pen cockerels; females very young but of good type and color.

COLUMBIAN PLYMOUTH ROCKS.

First cock, Wm. B. Hoeschler; fair type and color, rather immature.

First hen, Wm. B. Hoeschler; good type, fair color.

First old pen, Erwin H. Spencer; cock of good type and color, mated to four females of good type and fairly good color.

First young pen, Wm. J. Becklenberg; cockerel of good type, rather pinched in breast and tail, shows good markings thruout, mated to four females of good type and fairly good color. 2d young pen, Erwin H. Spencer; cockerel smaller than first pen cockerel, not as good in type or color; females not as good type or color as first pen females. 3d young pen, Wm. J. Becklenberg; cockerel of this pen good size, fair type, lacking in breast shape, tail trifle too high, hackle feathers not as well striped as male bird in first pen, mated to four females nearly equal of females of second pen.

BLUE PLYMOUTH ROCKS.

First and 2d cock, 1st and 2d hens, 1st and 2d cockerels and 1st and 2d pullets, Fishel & Hasselman; this is the first time this variety was exhibited at Chicago; fairly good type and color was shown by these birds, considering the fact they are a new creation.

BARRED PLYMOUTH ROCKS.

First cock, John W. Yant; excellent in type and color, fine narrow barring, little unfinished. 2d cock, Geo. Dyson; very good color and type losing to 1st bird in size. 3d cock, John McPherson; fine color and size; losing to 1st and 2d bird in type.

First hen, Howard Sears; fine type, very unusual color, good head points. 2d hen, Arthur Irwine; fine in type and color; nearly as good as first bird. 3d hen, W. D. Holterman; very nicely barred; losing to 1st and 2d in type.

First cockerel, Geo. Dyson; fine head points and eye, wonderful barring, good type, rather immature. 2d cockerel, John McPherson; fine size and type, narrow barring, four point comb, good texture. 3d cockerel, Fred Bowers; wonderful barring; losing to 1st and 2d in type.

First pullet, G. A. Walker; wonderful bird both in type and color, being easy winner in her class. 2d pullet, John W. Yant; very fine color; losing to 1st bird in type. 3d pullet, Dell George; rather immature; losing to 1st and 2d in both type and color.

First cockerel-bred hen, Geo. Dyson; especially good in both type and color, outstanding in her class. 2d cockerel-bred hen, W. E. Cowan; fine colored bird; losing to first in type. 3d cockerel-bred hen, Arthur Irwine; bird of fine type and color, barring being not as sharply defined as in 1st and 2d.

First cockerel-bred pullet, D. M.

Hammond; rather immature, but promise of being wonderful type, good head and eye. 2d cockerel-bred pullet, D. M. Hammond; good colored bird; losing to 1st in type. 3d cockerel-bred pullet, W. D. Holterman; good type and color, lacking a trifle in breast shape.

First pullet-bred cock, Mrs. Chas. E. Popham; easy winner in his class, shows wonderful type and color, together with excellent head points. 2d pullet-bred cock, D. F. Palmer & Son; very good color, not as good type as 1st bird. 3d pullet-bred cock, Geo. E. Girard; losing to 1st and 2d in both type and color.

First pullet-bred cockerel, Mrs. Chas. E. Popham; showing wonderful barring and excellent type. 2d pullet-bred cockerel, D. F. Palmer & Son; wonderful type and color; being a close second. 3d pullet-bred cockerel, L. S. Heim;



The first prize Barred Rock pullet at the Chicago Show showed excellent type and color, an easy winner in her class. Bred and owned by G. A. Walker, Polo, Ill.

bird of good type and color, trifle unfinished.

First exhibition pen, John W. Yant; exceptionally grand pen thruout; male bird of fine type and color, good head points; females well mated and are much of same type and color of barring. 2d exhibition pen, John W. Yant; a cockerel of fine Rock type, good head points, very fine and even barring thruout, mated to four pullets equally good in type and color. 3d exhibition pen, G. A. Walker; a cockerel and four pullets of good type and color, type not being quite equal to 1st pen birds; birds not fully finished; females not as well balanced as in 1st pen.

First cockerel-bred pen, W. D. Holterman; cockerel and four pullets of exceptional quality, showing fine type thruout, barring extremely fine and even; male bird not fully finished. 2d cockerel-bred pen, Hicks Burkett; cockerel of good Rock type, rather small, mated to four pullets of good type and color. 3d cockerel-bred pen, Geo. Dyson; this pen showed very fine quality thruout, male being very young and immature, altho evenly barred; pullets of good type but not as well barred as females of pen one and two.

First pullet-bred pen, John W. Yant; male bird of this pen of very fine type and even barring with good head points, mated to four very evenly matched females of very fine type and color. 2d

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The Egg type that Laying Contests have proven and the type that Commercial Egg Production demands. Selected Hatching Eggs, \$6.00 per 100. 90% fertility guaranteed. Strong Day-old Chicks, \$15.00 per 100—delivered alive and lively. Discount on quantities. You should order early. Yearling hens \$1.00 each; Pullets \$1.50 each.

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WHITE HOUDANS

A breed that combines beauty and utility to a higher degree than any other variety. As layers of large white eggs and excellent table quality they cannot be surpassed.

Eggs for Hatching. Circular Free.

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Porter's Golden Buff Orpingtons

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A. B. PORTER, Box 4, LA SALLE, ILL.

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Monmouth birds made notable wins at the Palace. Our grand S. C. Buff Leghorns took

1st and 2nd Cock; 2nd Hen; 1st and 2nd Cockerel; 2nd Pullet; 1st Pen; Color Special and Best Display, at this big New York show. A splendid record! Means a lot to our customers. In color, type and quality, our

Monmouth S. C. Buff Leghorns

are exceptional—the best we ever had on our farms. Our S. C. White Leghorns are bred to the same standard.

We are ready to supply some fine birds that should win for you at any of the leading shows. They are bred for size and heavy laying qualities, too. Select now from our crack breeders for this season's breeding pens. It will pay you to buy some of our wonderful "20th Century Dual Purpose Fowls." Write today for prices and circulars.

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John Lockwood, Supt.

Box 23, FRENEAU, NEW JERSEY





A. & E. Tarbox, Yorkville, Ill., are two of the oldest breeders of Silver Wyandottes in this country. The first prize pullet at Chicago and San Francisco shows the wonderful advancement in type and color that has been made in this breed.—L. A. S.



The above picture of the first Buckeye cockerel at Chicago, shows to good advantage the fine type of the bird. We are willing to vouch for its excellent color. Mr. Elton C. Mahon, Norwood, Tenn., the owner, showed a great lot of birds.—L. A. S.



Buff Orpington male shown in one of the winning old pens, Chicago Coliseum, December, 1915, especially good type and color. Bred and owned by A. C. Williams, Ravenna, Ohio.—F. D. R.



Chas. G. Pape, Fort Wayne, Ind., as usual won a number of firsts with his Black Minorcas. The first prize cock is a bird of fine station and great color, winning easily in a select class.—L. A. S.

pullet-bred pen, G. A. Walker; male of this pen not the equal of male in first pen in type, altho very good color in all sections; females of good type and barring thruout. 3d pullet-bred pen, D. F. Palmer & Son, contained cockerel and four pullets of good type and color, not as large and well matched as birds in 1st and 2d pens.

SILVER WYANDOTTES.

First cock, A. & E. Tarbox; of wonderful color and fair type, good head and comb. 2d cock, A. & E. Tarbox; losing to 1st bird in color, not as good in head. 3d cock, Ira C. Keller; losing to 1st and 2d in color, being sort of brassy across the back.

First hen, A. & E. Tarbox; wonderful color and good type, showing no trace of mossiness in any section. 2d hen, Ira C. Keller; a close 2d, lacing being a trifle too heavy, not as good in comb. 3d hen, A. & E. Tarbox; of good shape and lacing, contrast in lacing not being as sharp as in 1st and 2d bird.

First cockerel, A. & E. Tarbox; nicely turned bird, showing wonderful breast lacing, good Wyandotte type thruout. 2d cockerel, Ira C. Keller; long in body, lacks a little in breast shape. 3d cockerel, A. & E. Tarbox; too high on legs, hackle unfinished.

First pullet, A. & E. Tarbox; fine shape and color, showing wonderful open lacing. 2d pullet, A. & E. Tarbox; not as good in type as first bird, also lacing heavier. 3d pullet, Ira C. Keller; losing to 1st and 2d in both type and color, not in show condition.

First old pen, A. & E. Tarbox; contained cock and four hens of grand quality, showing wonderful Wyandotte type and excellent color thruout.

First young pen, A. & E. Tarbox; male of this pen has very good Wyandotte type, legs a trifle long, good color thruout, mated to four pullets of good Wyandotte type and excellent lacing.

GOLDEN WYANDOTTES.

First cock, F. L. Clausen; fine type and color, one of the best cock birds shown at the Coliseum in recent years. 2d cock, Ira C. Keller; very large bird, fine color, good type, tail carriage trifle high, good head and comb. 3d cock, Frank Ward; not as good as 1st and 2d in either type or color, eye trifle light.

First hen, F. L. Clausen; well lacked bird, showing good type, lacking a little in back shape. 2d hen, D. G. Anthony; smaller bird of excellent color, fair type, being too long in back. 3d hen, Chas. D. Love; too high on legs, very good body shape, fairly well laced.

First cockerel, D. G. Anthony; fairly good color, good head, long on legs, tail carriage too high. 2d cockerel, Monroe H. Wanning; good color and fair type, close 2d. 3d cockerel, Chas. D. Love; well laced bird, not as good type as 1st and 2d birds.

First pullet, W. M. Hare & Son; wonderful lacing, also excellent type, good head points. 2d pullet, Chas. D. Love; good head, not very good color. 3d pullet, D. G. Anthony; losing to 1st and 2d in type and color.

First young pen, Chas. D. Love; male

of good type, rather narrow breast, carrying tail trifle high, mated to four very even pullets of fair type and excellent color. 2d young pen, D. G. Anthony; male bird not equal of 1st pen male bird in any section; females not as well developed, but well laced.

WHITE WYANDOTTES.

First cock, F. M. Eakin; wonderful type and fine head and comb, lacks a trifle in breast shape. 2d cock, Robt. W. Williams; not as good type as first bird, not as good in comb, being too heavy. 3d cock, L. J. Demberger; not as good in type as 1st and 2d birds.

First hen, L. J. Demberger; good color, wonderful type and excellent head points. 2d hen, F. M. Eakin; fine type and good head, little Cochiny in fluff feathering. 3d hen, F. M. Eakin; good type and color, not quite as broad in back shape as 1st and 2d winners.

First cockerel, F. M. Eakin; one of



One of the winning Black Orpington pullets exhibited by Jessie F. Gordon, Spring Valley, Minn. Extra fine in type and color. F. D. R.

the stellar birds of the whole show; excellent type, fine head points, bright eyes and yellow legs. 2d cockerel, F. M. Eakin; would be an easy winner in most classes, also good type and head points. 3d cockerel, F. M. Eakin; not as good bird in type as 1st and 2d, lacking a trifle in breast shape.

First pullet, L. J. Demberger; wonderful type with excellent head points. 2d pullet, Chas. W. Prei; large bird of good type and color, fluff feathering being a little too loose. 3d pullet, Frank E. Hering; bird of wonderful color, not as good in type as 1st and 2d birds.

First old pen, Carrington Jones; consisting of cock and four hens of wonderful type and snow white color. 2d old pen, A. J. Shannon; male of this pen not as good in type as 1st pen cock; hens not as well matched. 3d old pen, J. H. Powers; cock bird of this pen of good type and fair color; females not as good as 1st and 2d pen in both type and color.

First young pen, L. J. Demberger; contained cockerel of true Wyandotte type, snow white color, mated to four females of very uniform type and excellent color. 2d young pen, F. M. Eakin; very nearly as good in type and color as 1st pen; a close second. 3d

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Mrs. Walter Cline Versailles, Missouri

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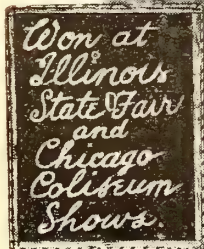
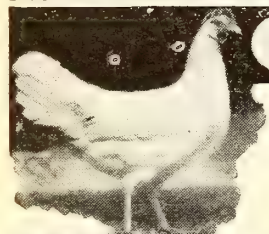
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R. F. D. 3

ELGIN, ILLINOIS



Longfield Poultry Farm, of Bluffton, Ind., showed a fine lot of their Rose Comb Rhode Island Reds at Chicago. The above picture shows the fine type of the birds exhibited by them. We cannot show the beautiful color here, but are willing to vouch for same as being all that can be desired.—L. A. S.



Hasselman & Fishel, of Hope, Ind., showed a fine lot of their new variety of Blue Plymouth Rocks. The picture of one of their winning cockerels speaks for itself and shows fine shape and fairly good coloring. There is no doubt that this new variety will find many admirers, as the combination of colors forms a pleasing contrast.—L. A. S.



Second prize S. C. R. I. Red cock, Chicago Coliseum, December, 1915. A bird fairly glistening with the brilliancy of its colors. Bred and owned by Schenley Heights Poultry Farm, Pittsburg, Pa.—L. A. S.



First prize Buff Orpington cockerel and special for best in the class was awarded to this handsome specimen shown in the above unretouched picture. Bred by Rawnsley-Shields Farm, Columbus, Ohio.—L. A. S.

young pen, R. K. Beeler; male and females of this pen show good Wyandotte type and fair color but not equal in any way to the 1st and 2d pens.

BUFF WYANDOTTES.

First cock, W. F. Schultz; very good type, good color, being a typical Wyandotte, lacks a trifle in breast shape. 2d

the best cockerels shown in Chicago in recent years, very wonderful color thruout and good Wyandotte type. 2d cockerel, Chas. Howison; very board, blocky bird, lacks in breast shape, a trifle pinched in tail. 3d cockerel, W. F. Schultz; very good color and type, also lacks in breast shape, comb somewhat heavy.

of good type and station, fair head points.

First hen, Shoemaker Poultry Farm; good type thruout, fair comb and eye.

PARTRIDGE WYANDOTTES.

First cock, W. W. Day; good type and color, trifle high on legs, eye and comb fair. 2d cock, R. S. Jackson; good color, bird losing to 1st in type, fair



"FASHION PLATE 1916"
BRED AND OWNED BY
A. E. MARTZ - & - ARCADIA, - IND.

The noted breeder, A. E. Martz of "Fashion Plate" fame, being president of the Chicago Coliseum Show, did not enter any birds in competition there this season. However, had on display the wonderful specimen shown in the above picture. He is a marvel in both type and color and commanded much attention during the week.—F. D. R.

cock, Chas. Howison; very rich golden buff, even thruout, trifle short in body, otherwise equal to 1st bird. 3d cock, Chas. Howison; lighter shade of buff than either 1st or 2d, very large bird, lacking somewhat in finish of tail.

First hen, W. F. Schultz; very good color in all sections, type extremely good. 2d hen, W. F. Schultz; shade lighter than 1st bird, very even color and very even type. 3d hen, W. F. Schultz; too dark in color, altho very even, trifle Cochiny in fluff feathering.

First cockerel, Chas. Howison; one of

First pullet, W. F. Schultz; very good color and fair type, being a trifle Cochiny in fluff feathering. 2d pullet, J. R. Love; of wonderful color and fair type, loses to 1st on shape. 3d—pullet, S. A. Power & Son; of good color, fair type, shows a trifle ticking in tail, earlobes a little bit light in color.

First old pen, W. F. Schultz; containing cock bird of very rich buff, even thruout, mated to four hens of good size and color.

BLACK WYANDOTTES.

First cock, Shoemaker Poultry Farm;

comb and good eye. 3d cock, Dr. G. S. Culver; bird of fair type and color, trifle high on legs.

First hen, Geo. B. Critchfield; of good type and color, strong eye and fair comb. 2d hen, Dr. G. S. Culver, trifle small, good colored bird, good head points thruout. 3d hen, Dr. G. S. Culver; good shape, losing to 1st and 2d in color and head points.

First cockerel, E. G. Lapham; bird of excellent color thruout, trifle high on legs, tail carriage trifle high, good head and fair comb. 2d cockerel, W. W.



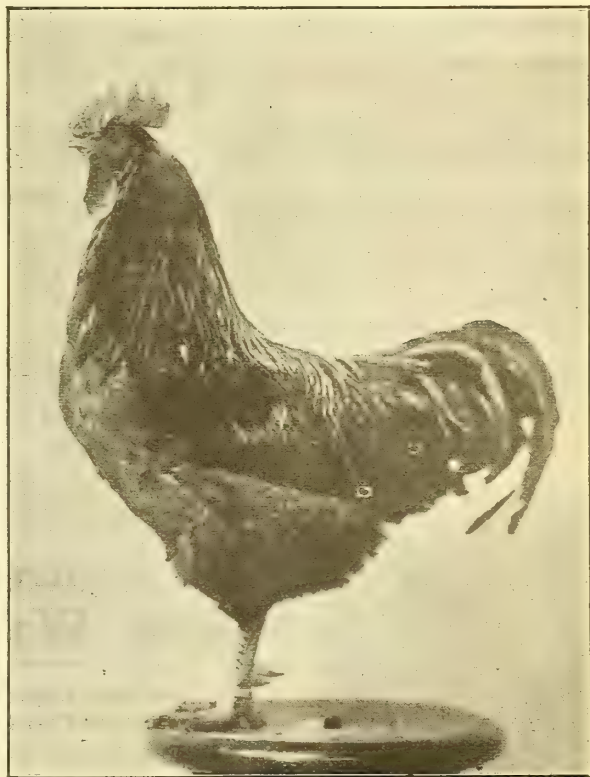
The above White Wyandotte pullet, owned and bred by F. M. Eakin, Bucyrus, Ohio, is a fair representation of the many to be found in his yards. Mr. Eakin exhibited a fine lot of birds at the Coliseum Show and captured several first prizes. The modern Wyandotte type of this bird is very noticeable.—F. D. R.



1st prize hen, St. Louis Show, November, 1915. The above picture shows to good advantage the real Leghorn type found in Mr. Gerber's birds. This great winning was made with one hen entered. Truly a wonderful female; bred and owned by G. J. Gerber, Dalton, Ohio.—F. D. R.



A White Orpington male, showing good type, one that will make an extra good breeder. Bred and owned by Rose City Poultry Farm, New Castle, Ind.—F. D. R.



CHAMPION

America's greatest Madison Square Garden prize winning Partridge Plymouth Rock male, being first cockerel at this show, 1913; headed first pen, 1914, and was first cock, 1915. The above is an unretouched photograph of him. This great bird was bred and exhibited by Bird Bros., Meyersdale, Pa.

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Won First Prize Pullet, Chicago, December 1915; St. Louis, November 1915. 1st Cock and 2nd Hen, 1st and 3d Pullet, 4th Cockerel. Young and old stock for sale. Real Cornish type. Satisfaction guaranteed. Write today. **DAWDY & DAWDY, Box M, Greenville, Ill.**

Partridge Plym'th Rocks

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1st, 2nd and 3rd Cockerel, 1st, 2nd and 3rd Pullets, 1st Hen, 3rd Cock, 1st young Pen.

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1st Cock; 1st, 2d Hen; 1st, 2d, 3d Cockerel; 1st, 2d, 3d Pullet. Plenty of Show stock for sale.

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CHICAGO WINNERS

Our birds have been winners at both Chicago shows the past seasons. Grand young stock for sale—the real Wyandotte type. Extra fine winter layers. Write today. Prices reasonable. **J. H. POWERS Poultry Yards: 79th and Bennett Ave. Office: 1411 E. 47th St., Chicago, Ill.**

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Not only at one show, but at practically every show for the past 15 years. We have this season the most sensational lot of show birds we ever owned. They are grand, glorious, beautiful birds with that straight, narrow, snappy barring to the skin, and deep blue, scintillating, sparkling color from head to tail. We have old birds or young, cock birds, hens, cockerels or pullets; single birds, trios or pens for any show in America, the largest National shows as well as the smaller local shows. Every bird sold on a guarantee basis—write today for that winner. We will furnish it. **GRAND CATALOG FREE.**

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The most vigorous and healthy flock of high class show birds in America

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Blue Ribbon Winners at the best shows. 1st Cock, 1st Ckl., at Frisco. 1st and 2d Ckl., 2d and 3d Cock at Chicago Coliseum Show. Clean sweep in singles at Quincy and the great State Fair. The results of 18 year's careful selection and proper mating. High class Exhibition and breeding Cockerels for sale, \$5.00 to \$25.00. Egg orders booked from utility or prize winning pens.

CHARLES HOWISON Buff Wyandotte Specialist Box 20, Sandwich, Ill.

GENSCH'S SINGLE COMB WHITE ORPINGTONS THE BIG WINTER LAYERS

Won at Chicago Coliseum Show, December 10-15, 1915. 1st old pen, 2d and 7th Cockerel, 3d Cock, 6th Hen, 3d and 7th Pullet. Stock for sale. Eggs in season.

F. M. GENSCH Box G OMRO, WIS.

Walker's Barred Rocks Won Chicago Coliseum December 1915

1st Pullet, 2nd Pullet-mating Pen, 3rd Exhibition Pen at this Show. 1914, won 1st Pullet-mating Pen and 3rd Cockerel-mating Pen and four places in single class at Ill. State Show. Have won the State Barred Rock Cup three years in succession. Have been breeding Barred Rocks for 15 years and feel safe in saying I have the best prospects for show birds this year that I ever had. Write for prices and show records.

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F. D. ROGERS Care of American Poultry Journal CHICAGO, ILLINOIS



Andrews' White Wyandottes

Have Won Highest Honors at Boston for Past Sixteen Years

Fine breeding Cockerels, \$5, \$10, \$15. Trios, \$15, \$20, \$25. Also fine breeders at reasonable prices. Write me for prices on show birds or breeders. Catalog free.

J. W. ANDREWS

Box A Dighton, Massachusetts

Day; good type; losing to 1st in color and comb, fair eye. 3d cockerel, E. G. Lapham; losing to 1st and 2d in type; good color and eye, fair comb.

First pullet, G. B. Critchfield; bird of good type and color thruout, good comb and fair eye. 2d pullet, Dr. G. S. Culver; a close second. 3d pullet, Dr. G. S. Culver; good color and fair type, trifle high on 1 gs.

First old pen, R. S. Jackson; contained cock of good color and fair Wyandotte type, not fully finished; four hens of very good color and type.

First young pen, Dr. G. S. Culver; cockerel which showed very good type and excellent color; pullets evenly matched of good color and excellent type.

COLUMBIAN WYANDOTTES.

First cock, Richard Sawyer; fair type and color, lacking in breast shape. 2d



First S. C. White Minorca hen, Chicago Coliseum, December, 1915. Bird of good size, pleasing in type, and fine color. Bred and owned by Thomas Brogden, Rush Lake, Wis. —F. D. R.

cock, O. R. Eddy; fair type and color thruout, good head points, close second.

First hen, Richard Sawyer; fair type and color, good head points.

First cockerel, Richard Sawyer; fair color and good type, strong eye, rather poor in comb. 2d cockerel, Richard Sawyer; good color, fair type, trifle high on legs. 3d cockerel, O. R. Eddy; good color and fair type, tail carriage trifle high, not fully matured.

First pullet, O. R. Eddy; good color and fair type, fine head points. 2d pullet, Richard Sawyer; fine comb and fair eye; losing to 1st in tail shape and color. 3d pullet, O. R. Eddy; fair color; losing to 1st and second in type, back trifle long, tail carriage too high.

First young pen, Richard Sawyer; cockerel of good Wyandotte type, showing good hackle lacing, comb somewhat uneven; females show good type and fair color.

RHODE ISLAND WHITES.

First cock, Chas. W. Happ; fair color and type, good eye, poor comb.

S. C. RHODE ISLAND REDS.

First cock, F. E. Harrison; grand type and color thruout, extra fine comb of good texture, trifle light in eye. 2d cock, Schenley Heights Poultry Farm; good color and type thruout, good comb,

(Continued on Page 171)

Readers Experience Department

The New Single Comb Red Leghorn.

THERE is always something new in the poultry world. Leghorns have made their appearance in nearly every conceivable color and comb, but the latest addition to the great Leghorn family is the Single Comb Red Leghorn. This new variety should not be confused with the Red Pyle Leghorn, as it is entirely different. The Single Comb Red Leghorn is like the Brown, White, Buff and Black Leghorn as to shape and size, but in color they are a deep brilliant red much the same as are the best Rhode Island Reds, and they also have similar markings. Of all the new breeds we have observed we have seen none which have so many reasons for becoming world-wide popular as has this latest candidate for public approval.

Their lineage is quite modern, as they are the result of systematic crossing of Red Sussex, Rhode Island Reds and Single Comb Brown Leghorns. A glance at this line-up of ancestry will give the reader a very good idea of their general characteristics.

From the Leghorns they inherit their laying characteristics. From the Sussex they derive an extremely hardy constitution, while to the Rhode Island Reds they are indebted for the beautiful plumage so characteristic of the breed.

They are layers of large white eggs,

and are consistent in their laying habits, many of them laying during the moulting period.

When it is considered that they are less than five years old as a breed, the color development is really remarkable. By this we mean both surface and under-color, and in view of this, I do not hesitate to say that five years from now they will be attracting the same widespread attention as do the best Rhode Island Reds today.

At this writing, according to all available information, there are less than 200 head of Single Comb Red Leghorns in existence. These are closely held by breeders who fully realize the future greatness of the breed and as a natural consequence they will reach a high degree of perfection more rapidly than has been the case with other breeds.

At present the demand for stock and eggs is far greater than the supply and will be for several years to come.

Poultry lovers will do well to investigate this remarkable new breed which combines a color and type which heretofore have never been found on one fowl.

K. K. WELDAY.

Seville, Ohio.

S. C. Buff Leghorns.

I am greatly interested in the S. C. Buff Leghorns and have been breeding them for several years and find but

one defect in the breed. That is the small size of the mature bird, tho this is claimed by some to be an advantage, because they cost less to keep.

The eggs vary in color from pure white to a creamy tint and average from eighteen to twenty ounces per dozen. They are well shaped, the only difference in size being that the hen lays a larger egg than the pullet.

My hatching average with this breed has been between 80 and 85 per cent.

When first hatched the chicks are large, but they appear smaller after the feathers begin to grow. Chicks with black or brown spots on their heads will have black in their wing and tail feathers. This can always be relied upon. By the time they are half grown, those with wry or high tails, poor under-color or with too dark or light surface color can readily be distinguished and sold to market.

Nearly all Leghorns are apt to be wild, so they should not be alarmed more than is necessary while chicks or as adult fowls. They are fine "watch dogs" against thieves, as they set up a terrible racket if disturbed at night.

The Standard calls for a clear buff, and that, you must have to breed good birds. Either black or white in under-color or on the surface is a defect, and of the two, black is less desirable than white. A bird that is either too light

The advertisement for Mapleside Poultry Farm includes several photographs: a long white building with a dark roof, a smaller white building with a dark roof, a large white building with a dark roof, a large white building with a dark roof, a large white building with a dark roof, a large white building with a dark roof, a large white building with a dark roof, a large white building with a dark roof, a large white building with a dark roof, a large white building with a dark roof. A central portrait of a man in a suit and tie is also featured. The text 'MAPLESIDE POULTRY FARM' is prominently displayed in a stylized font, with 'O'F MITTENDORFF PROP.' and 'LINCOLN ILL' below it. Decorative elements include a large circular frame with a landscape scene and two large, stylized, striped, wing-like shapes on either side of the central portrait.

This is a farm that is making good by specializing in Barred Plymouth Rocks for heavy egg production. Have produced individual hens with trap-nest records up to 290 eggs in 364 consecutive days. The trade of this farm extends to all parts of the world,

or too dark will not produce buff-colored chicks.

In preparing Buffs for the show room, I do not wash them, but use a little sweet oil and alcohol and rub them down with it using a clean cloth. It gives the feathers a nice glossy appearance, but should be used sparingly, as too much would gum up the plumage. I also use sweet oil and alcohol on the comb, wattles, bill and shanks. If properly applied it gives the birds a clean, well-kept appearance.

FLOYD E. GARLAND.

Open Front the Best.

One of the best of the new methods in poultry keeping is the open-front house. My experience with it, embraces four different houses in three different towns and extends over a period of half a dozen years. Its success has been very pleasing in every case. My open fronts have not a cur-

tain, there being nothing in the front (southern side) of the house but wire netting and the uprights which support the roof timbers and the netting. With this type house, I use no outdoor run for my fowls. There is an earth floor which is kept covered with hay seeds, and loft sweepings, from a near-by farm. With the birds kept on it at all times, this covering will soon become foul and consequently is frequently renewed. On cleaning out, the old litter is used to make a compost heap and later removed to the garden, where it does good work. I have kept Leghorns and Campines in this manner and not a case of frozen comb to date. The birds are as full of song and activity as one could wish. The egg yield is remarkably good thru all the cold weather. Another point to consider in town flocks like mine, is that the birds so housed are not an annoyance to neighbors by scratching up lawns and gardens. Any little back yard big enough for an open

front house may have a flock of fowls kept in this way. But the house must have an always open front.
Dover, N. J. C. H. V.

A Word for the White Rocks.

For more than fourteen years I have been breeding White Plymouth Rocks and find they fill all requirements for an all around fowl. They do equally well confined to small quarters or on range.

In mating, I use single matings both for pullets and for cockerels. The color of the little chicks varies from pure white to quite a smoky or smut color, but I find many times the darker the little chick the whiter the young bird. The creamy ones nearly always develop into the best birds of the flock and invariably moult out pure white the second year.

As layers, the White Rocks are hard to beat. I have had a flock record of



Homestead Silver Campines The Vigorous Strain

AT THE PALACE, NEW YORK CITY, DECEMBER, 1915

At the largest winter show ever held in America and the first big winter show of the season.
—Frank L. Platt, Judge. We won:

1st and 4th Cock	1st and 2nd Hen	1st and 5th Cockerel
2nd and 4th Pullet	2nd Exhibition Pen	1st Display

with several specials, including special for color and type on first hen and color on first cockerel. The comment on the quality and condition of our birds was as follows: WONDERFUL! Winnings at the New York State Fair, the first big show of the season, September 13 to 18, 1915: 3rd and 5th Cockerels; 2nd Cock; 1st and 4th Hen; 2nd and 3rd Pullet; 1st Old Pen; 2nd Young Pen; 2nd Display; several specials, with much comment on the quality, beauty and condition of our birds. Win at Boston, 1915, thirteen regular prizes, including four firsts, specials for best display, best cock, hen, cockerel and best pen. We have many more good birds at our HOMESTEAD CAMPINE FARM and if you are interested we shall be glad to send you one of our catalogs.

HOMESTEAD CAMPINE FARM

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WAYLAND, MASS.



Hotel Breslin

Broadway at 29th Street

5 Minutes Walk from Madison Sq. Garden

EDWARD C. FOGG,
Managing Director

ROY L. BROWN,
Resident Manager

New York City, New York

IF you will use the same careful discrimination in selecting your New York hotel that you use in selecting your poultry, we know you will be a guest of the BRESLIN when you attend the Poultry Show.

Write for Lately Revised Moderate Rates

200 eggs per bird for the last three years and better than that in one or more small pens.

It is not difficult to get pullets to weigh five pounds at five months and up to six, and six and one-half, at six months of age.

I sometimes find that in some of my best birds there will be small grayish specks on a feather, but this almost always moults out after the first year.

I trap nest all pullets the first year and select for breeding birds only such as have proved themselves good layers and have shown no sign of bodily weakness. Only birds of the best health and vigor, with large compact bodies, medium short shanks, closely folded wings, fine upright carriage and active wide-awake appearance should be kept over for breeders. O. H. LEON.
Clarksville, Pa.

Marketing Poultry.

One of the most important things for poultry keepers everywhere to realize is the value to the industry of well-marketed poultry. An examination of the greater part of the poultry that is for sale in city or town markets all over the country will convince anyone of the thousands of dollars that are thrown away by poor marketing. That the greater part of such poultry is not used for fertilizer rather than food, is amazing. It is certainly not fit for human consumption and there is no more certain way to prevent a constantly increasing demand for poultry in the market, than that of poorly dressed, half starved, over-ripe poultry being on sale in the markets, as it is today.

It is the exception rather than the rule to find good, plump, healthy looking, well-dressed poultry for sale in the markets. A walk thru several markets in two large Eastern cities just before Thanksgiving found hundreds of scrawny, scalded, over-ripe fowls displayed for sale. That people buy these birds for food at any price is the finest argument in the world for the demand that might easily be created for good clean wholesome poultry.

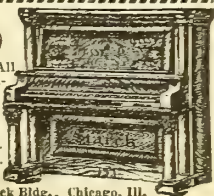
The best way to create such a demand is for every poultry keeper to sell only such fowls to market as are fit to be marketed and to see to it, that the birds are starved a day or more before killing, that they are dry picked, well bled and thoroughly chilled. If sold alive, try to fatten them up a little before selling. So many dressed poultry skeletons on sale in the markets speaks bad for the poultry raisers. If there is any way that the poultry business can boost itself, it is by putting out a better product for food consumption. There is a chance for the poultry associations to do great good in this field.

Last season at some of the shows where dressed poultry was on exhibition, I overheard a number of visitors remarking that no poultry such as that on exhibition was ever offered for sale in the markets and one gentleman went to great trouble to see if he could purchase a part of the exhibit.

Buffalo, N. Y. E. H. ARLINGTON.

Used Piano \$95

Other bargains from \$45 to \$195. All standard makes, including Steinway, Knabe, Emerson, Kimball, taken in exchange on Starck Pianos and Player-Pianos. Also used player-pianos \$195 to \$345. 30 days FREE Trial. Easiest payments. 50 music lessons FREE. Write quick for Bargain List.



P. A. Starck Piano Co., 888 Starck Bldg., Chicago, Ill.



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SUSSEX—CAMPINES—Blue Orpingtons

If interested in these splendid varieties, be sure and write me. I can save you money.
DR. J. H. PRUDHOMME, Desk A, THURMONT, MD.

At the Palace Show

"PREMIER" PARTRIDGE WYANDOTTES First in Every Class

1-2-4, Cocks
1-3-4, Ckls.
1-2, Hens
1-2, Pullets
1-2, Pens

Winners of 26 Firsts out of 28 at the 1915 Fall Shows. Here is quality unsurpassed. High Class Exhibition and Breeding Stock at Reasonable Prices. Partridge Wyandotte Book FREE.

SHEFFIELD FARM, H. B. HARK, Mgr. Poultry Dept. Glendale, O.

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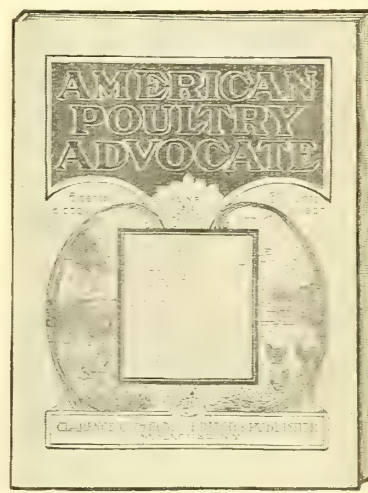
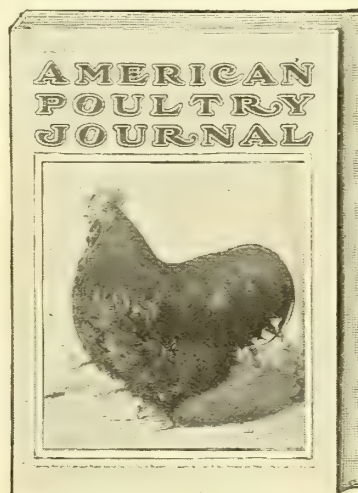
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good value
at that



Cost

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CHOOSING A CHICKEN

Even if a Paternal Government Spends Thousands of Dollars Getting Poultry Marketed in First-Class Condition, the Women of the Country Must Back Up the Work by Discriminating Buying or the Whole Propaganda Will Fail.

By A. M. WILSON.

FIRSTLY, Sister Woman, you cannot choose a chicken over the telephone. A certain keeper in a market store in a fashionable section of Washington, recently remarked with scorn that he did not care to cater to middle class women who came around poking their fingers into his chickens! Very disconcerting indeed, especially if there is a discerning eye back of the "poke" and the market man has some respectable but ancient hens to unload, or some gay young broilers that have dallied too long in storage, on his hands.

You cannot expect anyone to take more interest in your own business than you take yourself. Even if a paternal government spends thousands of dollars and specially trained men and women devote their time to seeing that poultry gets on the market in first-class condition, after sanitary skillful handling all along the line, the women of the country must back up the work by discriminating buying, or the whole propaganda will fail. But the woman who conscientiously and personally inspects and selects her own supplies, cannot do much better than an indolent sister, unless she knows a good chicken when she sees one. And this brings us down to

our text: What and When and Why is a Good Chicken?

To begin at the very beginning, heredity and environment both play their part, just as they do with humans. In other words, "the breed counts." There are certain varieties that have the plump breast, rounded legs, and well-meated backs which means both pleasurable and economical eating, while on the other

been studying for the past eight years. After the chicken is bred, and fed, come the questions of killing, picking, cooling, transporting and marketing, the mooted points of cold storage and the question of whether it be sold drawn or undrawn.

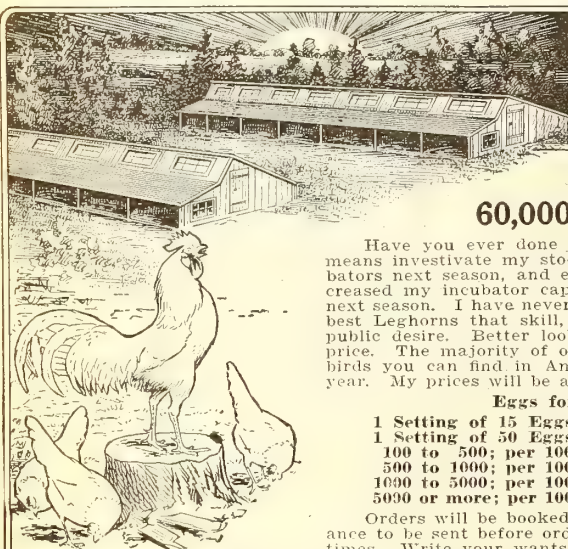
The old brutal and clumsy methods of wringing the neck of a chicken or even chopping off its head with an ax,



hand, the "rangers" or nervous dispositioned birds cannot be expected to put on flesh in the proper way.

What are the steps necessary to insure wholesomeness and quality in dressed poultry? This is the problem that the Food Research Laboratory of the Department of Agriculture has

were quite as hard on the consumer as on the chicken itself. Such a bird is not properly bled, and if blood remains in the flesh, it is very apt to become bitter in a very short time. You can tell a chicken that has been improperly bled by its discolored neck, red blotches on the wings and hips, and the quantity



"SUNLIGHT" POULTRY FARM S.C.W. LEGHORNS

Greatest Known Layers. (D. W. Young) Strain
60,000 S. C. White Leghorn Baby Chicks For Sale

Have you ever done any business with the Sunlight Poultry Farm? If not, you should by all means investigate my stock and my business methods. I shall operate two Candee Mammoth Incubators next season, and every egg used will be from my birds here on the farm. Again I have increased my incubator capacity 6,600 more and know that I shall be taxed to the limit for months next season. I have never yet produced half enough chicks to supply the demand. I am breeding the best Leghorns that skill, labor, capital and experience can produce—such Leghorns as 98% of the public desire. Better looking, better laying and stronger stock cannot be bought anywhere at any price. The majority of our customers raise almost every chick, as they are the strongest strain of birds you can find in America today. My prices for this year are no higher than they were last year. My prices will be as follows:

Eggs for Hatching

1 Setting of 15 Eggs.....	\$1.50
1 Setting of 50 Eggs.....	3.50
100 to 500; per 100.....	6.50
500 to 1000; per 100.....	6.00
1000 to 5000; per 100.....	5.50
5000 or more; per 100.....	5.00

Day-Old Chicks

25 to 50 Chicks.....	\$.14
50 to 100 Chicks.....	.13
100 to 500 Chicks.....	.12
500 to 1000 Chicks.....	.11½
1000 to 5000 Chicks.....	.11
5000 or more Chicks.....	.10

Orders will be booked for future delivery on receipt of one-fourth of the purchase price; the balance to be sent before order is shipped. Cocks, cockerels, hens, pullets, trios and pens for sale at all times. Write your wants. Catalog free. Satisfaction guaranteed.

SUNLIGHT POULTRY FARM, E. N. Lemon, Owner, Lynchburg, Ohio

We'll save you the price of this farm weekly before you buy it

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TAKE the hardest problem on your farm—the thing that's costing you money because you don't know what to do about it.

Maybe it's a poor crop, or a pest, or sick poultry, or a building to put up, or what not.

Sit down *now* and write us about it.

We'll put your question up to one of our 100 experts—actual practical farmers and well-known authorities.

It costs you nothing

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 "The greatest success of the age."—W. Walker, Ohio.
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NATURAL HEN INCUBATOR 200-Egg Size \$3
 Costs Only

Artificial incubators cost four times this amount and do not give half such satisfactory results. Remember the Gov't is behind my machine—fully covered by patents. No freight to pay. Agents wanted. To reach the MILLION mark in 1916, we will send you a SPECIAL INTRODUCTORY OFFER with our FREE CATALOG

NATURAL HEN INCUBATOR CO., 1349 Constance Street, Dept. 4 Los Angeles, Cal.

Poultry health insured

Use Carbo Units to support your poultry yard fence. They are mite-proof steel—do not harbor nor breed vermin, dirt, filth or disease. No wood to rot or gather dampness.

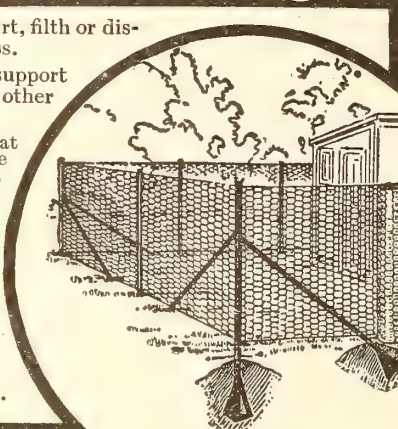
With heavier style Carbo Units you can support farm sheds, chicken houses, garage, or other buildings.

Three Carbo Units make a fence corner that will outlast the fencing wire. No concrete used, as Carbo Units are set in earth only, sub-soil anchored and earth cushioned. Never buckle at the ground line or shear off. Carbo Units are less expensive than wood posts, concrete, or semi-steel posts—occupy 1-10th the space of wood posts. Are easy to set: merely bore a hole and set in unit; tamp earth, and Unit is there to stay. Life is five to ten times that of wood.

For supporting fencing between terminals, use Carbo Spring Supports. Write for Catalog 16, which tells about Carbo Units, and their 101 uses about the farm.

THE CARBO CORPORATION
 101 Rand-McNally Bldg. Chicago, Ill.

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 TRADE MARK REGISTERED
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"Faultless" Poultry Feeder



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Larger Sizes
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Catalog Free.

SIMPLEX SUPPLY HOUSE, Pontiac Bldg., Chicago, Ill.

of blood in the liver and viscera. A well-bled bird is of an even yellow or white color over the entire body. The sanitary, humane and gastronomic way to kill a chicken is to sever the jugular vein while the bird is suspended by the feet, at the same time braining, by thrusting the knife along the middle line of the roof of the mouth. This method of killing not only insures proper bleeding but the braining loosens the feathers and makes dry picking easier. Those who are interested in this important detail, should send to the Department of Agriculture for Circular 61 of the Bureau of Chemistry. Then how should the feathers be removed? The indignation of an expert, over a chicken that has been lazily scalded, instead of having been carefully dry picked, is something dreadful to witness. This appears to be one of the worst crimes that has to date been discovered in the poultry world. It seems that scalding a chicken alters the flavor of the layer of fat just under the skin, soaks out in the water the flavors due to the nitrogenous extractives, and adds from 8 to 17 per cent of water in exchange for these losses. Incidentally the consumer pays for this water at chicken prices. Moreover, after a bird has been scalded, it is very difficult to tell anything about its quality—so the high-priced poultry is dry picked, and the poor stuff is naturally scalded as a disguise, so to speak, which is another reason for calling loudly for dry-picked chickens.

If the bird has been dry picked, the skin is translucent, especially along the sides and shows the pink muscles underneath, the fat on the breast is yellower than in other places, the skin is soft and flexible and only a few veins can be seen. The skin of a scalded chicken has a smooth, tight stretched appearance, and it is difficult to bend the legs back—often the skin is rubbed. Scalding is the easiest method, and until the housewife demands dry-picked fowls, they will not be plentiful in the market—human nature being the same among poultry dealers as in other trades and professions. It rests with the buyer to create the demand and this cannot be done by buying on prejudice and guess-work instead of on a basis of knowledge.

Imagine this picture—it is a true "movie." Scene—A Retailer's Shop Anywhere. Characters—Retailer, Housewife and Dr. Pennington, poultry expert, incognito.

The prospective buyer is offered a prize, young, milk-fed, dry-picked rooster. Scorn and suspicion are depicted on the face of the woman. "No. I don't want that bird. It is diseased and I'll bet it died. Show me a bird that was killed and is fit." Dealer presents a scrawny, scalded chicken which is accepted with enthusiasm as being all right, because it looks "as usual" while the plump, flexible-skinned,

CHICKS

Rocks **Leghorns** **Wyandottes**
Reds **Orpingtons** **Buttercups**

We are booking orders for Spring delivery.

We shipped 200,000 to satisfied customers last season—because

ours are throbored, carefully mated, properly hatched, promptly delivered, best strains.

Strong Guarantee. Write for Catalog.

TIFFIN POULTRY FARMS AND HATCHERY
 Dept. A. Tiffin, Ohio

S.C.B. Minorcas

that have size and quality. Winning three successive years at Quincy show. Eggs and stock in season. Grover Deege, 814 Jefferson St. Quincy, Ill.

Rhode Island Whites

The PROFITABLE FOWLS. Marvelous Layers Magnificent Show Birds; capable of winning anywhere. My winnings at Great Forest City Fair, 1915 were: 1st and 2nd Cockerels; 1st, 2d, 3d, 4th and 5th Pullets (no old stock shown). Club special for best Pullet; Club special for best Cockerel, also Grand Championship Display. Circulars. Let me hear from you. Mrs. B. Bottenus, 89 Burton Ave., Cleveland, Ohio. Station H.

Fernbrook Farm Wh. Wyandottes

Won at the Great National White Wyandotte Club Meet at Buffalo. Best display by more than double the points scored by our nearest competitor. \$85 in Cash specials. Pen old, 1st; Pen young, 1st; Cock, 2d; Hen 1st, 2d, 4th, 6th; Pullet 3d, 4th, 6th. Forty Exhibitors. Cocks, Hens, Cockerels, Pullets or pens for exhibition or breeding. Catalog FREE. Fernbrook Farm, Arthur G. Bouck, Mgr., Box A, MENANDS ROAD, Albany, N. Y.



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THAT is the proof every poultryman wants and that is the proof Diamond Corn Gluten Feed furnishes every time.

It takes only a trial order to show you that this scientific feed will give you practical results.

Feeding Diamond is economical because it supplies only those elements which you cannot grow yourself. Diamond Corn Gluten Meal is guaranteed to contain 40% protein, 1.5% fat and not more than 4% fibre.

Your dealer should supply you.
If he cannot, write us direct.

Corn Products Refining Company

New York
Chicago



soft-fleshed, choice bird looked too good to be true.

Curtain, while the scientific investigator who has spent much time and money and expert labor in getting the dry-picked chickens on the market, "fades out"—wondering meanwhile why anyone should go to the trouble of dry-picking chickens if the women do not know enough to buy them!

This is creating the wrong kind of a demand and this is where the housekeeper's responsibility for the food supply begins.

The next important step is chilling the fowl as soon as it is picked. This ranks with dry picking in importance, when it comes to providing a wholesome and tasty product. Indeed, Dr. Pennington holds that failure to remove the body heat by cool, dry air (30°-35° F.) is more accountable than any other one factor for spoilage, bad appearance and loss of flavor. It takes twenty-four hours to cool a large chicken properly, and about eighteen hours for a small one. No matter how proud the ancestry of a fowl, or how tenderly it has been reared, it can be ruined for the table both by scalding it and by failing to cool it properly. Think of the effect of the blood remaining in the tissues and veins and the animal heat being retained in the carcass and see how obvious this is.

Then we come to packing for transportation. Wet packing in ice is an abomination—more of the nutrients are soaked out and the flesh is made soft and mushy, so that it readily decomposes. Moreover, the water from the melting ice soon becomes filthy beyond description. There is nothing to be said in favor of the chicken packed in ice, whatever differences of opinion may exist on other points. A glance at barrelled chickens and another at those packed in individual cartons or small boxes (twelve to a box) transported in refrigerator cars and kept cold but dry settles this question without expert testimony, tho that is not lacking. When the housewife says, "No, I will not have it," the wet packed chicken will disappear as if by magic. For the housewife's word will be more powerful than any law or expert testimony.

Drawn or undrawn is a question that has been hotly debated. On general principles keeping a fowl undrawn is rather a repugnant idea, and some states have legislated against it. But along comes an expert with a disconcerting array of facts. In drawing a fowl, under ordinary commercial conditions, it is practically impossible to prevent breaking the intestines and smearing the body cavity with the contents. This fact, together with the breaking of the skin and exposure to the air tends decidedly to promote decomposition. Careful comparative experiments with drawn or undrawn poultry have shown that the rate of decomposition, as evidenced by bacterial and chemical changes, as well as by visual inspection, is far greater in the case of the drawn fowl.

The best procedure, therefore, is to starve the chicken for not less than twenty-four hours before killing, giving it only water to drink, and to keep the carcass unopened until it is ready for delivery.

The entrails in a good chicken should be almost empty, round, firm in texture, and showing little red veins here and there. If the animal heat was not removed quickly and completely, the



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roundness of the intestines will be lost and the fold will stick together. There will also be an undue amount of sliminess and a markedly unpleasant odor, neither of which is found in a properly dressed and chilled bird.

If the housekeeper is too dainty to see the chicken prepared in the market or have it done by an experienced servant in her own kitchen, she must run the greater risk of eating diseased or decomposed poultry. In any case she should refuse to buy a chicken with its crop full of sand and corn. Neither health nor economy is served by such a procedure. We have had some legislation on this point, but the buyer's demand would help mightily to correct the abuse. From the crop of a medium sized turkey I once extracted a full pound of freshly swallowed corn, sand and gravel, for which mixed goods I had paid at the rate of 20 cents a pound—a fair price for corn but decidedly high for gravel.

We need a Buyers' Union. Buyers are unorganized, uninformed, and easy prey for any kind of selfish commercial usage. Education of the buyer is the most powerful incentive to food reform that we have and the only certain method of insuring the enforcement of laws after they are enacted.

A properly prepared chicken, well bled, dry picked, chilled, and properly stored is good, even "fresh" as far as chemical composition is concerned after six to nine months. The cold storage chicken, like the cold storage egg, should be sold only under its own name and when the fresh product is out of season. It should be bought *hard frozen* (then you know it is storage) thawed in the home ice box for twenty-four hours and then cooked at once and served. Cold storage is conservation—and conservation only—to save the overproduction of the flush season for the scarce season. The evils of cold storage lie in misrepresentation, the storing of products already started on the road to decomposition by delayed handling, and the great danger of thawing, refreezing and restoring on the part of the retailer.

Apart from these special points which indicate the manner in which the chicken has been marketed, its youth and tenderness are to be judged by a rather small comb, smooth shanks, soft, thin skin and an easily bent breast bone. A coarse head, rough shanks, heavy, blunted toe-nails, thick rough skin, spurs in the case of a cock, and a hard breast bone, all spell age, however the fowl may have been handled.

Is all this trouble worth while? We think so. We must eat three times a day. We spend a large part of our time and money in providing food for our bodies, and our health and happiness wait to a great extent on good digestion. Chicken offers 2 per cent of protein, 8 per cent of fat and 850 heat units per pound. It compares favorably with sirloin steak in the amount of digestible nutrients furnished.

The meat of the chicken is the first we give our children, and frequently furnishes the last broth we give the invalid and the aged.

What are you going to do about it, Madam Housekeeper? Without your intelligent co-operation, the efforts of the laboratory and of the packing house to improve this important food product cannot carry very far.

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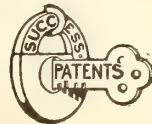
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My Faith is large in Time and that which shapes it to some perfect end.—Tennyson.

* * *

ONCE in a while, in late Autumn there comes a day that eclipses anything the entire year has known. At dawn we sense it by the stillness of the leafless trees, by the tints of the sun as it illuminates the Eastern sky an hour or more before becoming visible on the horizon.

All the morning long we glory in the wealth of sunshine that sets the few belated birds to twittering and all but starts Spring bulbs to bursting. Windows and doors are everywhere flung open. Bedding and clothing sun from piazza roofs and clothes lines. Chickens chant and crow jubilantly in the farm yard. It is a day of days. Everywhere the world is glad. At noon the air is as balmy as June and the sun as warm as mid-Summer. There are no mosquitoes and few if any flies. The roadways are a marvel of smooth, well-keptness.

In the early afternoon of such a day, we drove leisurely thru the hill country of a great agricultural section. On a

hundred hills "the fodder was in the shock" and the corn in golden heaps as freed from its husk lent a certain picturesqueness and an air of plenty to the scene. The harvest was bountiful, the workers whistling as they tossed golden ears on sun-kissed mounds.

A panorama of clear sky, warm sun, well-kept farms, comfortable homes, happy faced children, interesting landmarks, stretches of woodland and glimpses of the boy off yonder! During a seventy-five to one hundred mile drive, we met perhaps half a dozen horse propelled vehicles. Ten years ago, in covering the same ground (which would have taken probably three days by horse), we would have met perhaps less than half a dozen motor drawn vehicles.

"We see a great many changes," said our companion. "In my time this whole section has changed from one of a few prosperous landlords and a great many poor, ignorant dependents, to one of general prosperity. Plain poverty is the exception today, while really pronounced poverty in an agricultural sec-

tion like this is practically unknown. I do not know of a man or woman in this community at the present time who can and will work, who is without work. And you can see the result as you ride along. The little homes with their patches of cultivated gardens are as well kept as the big ones and wherever you go in this section today you will find clean fence rows, trim orchards, attractive gardens and well-kept buildings."

"To what can this advance in farm life be attributed?" we asked.

"Well, the chief reason is because the world is growing better. People will tell you that nothing is as good as it used to be and that even human beings are going down hill just as fast as they can, but looking at the matter calmly, it seems to me that about everything has improved in one way or another. Yes, human nature is much the same, but we are on the up-grade nevertheless."

"People are coming more and more to trust one another. They are realizing that the greater the confidence placed in a man the more likely he is to live up to it, the greater the kindness shown a neighbor in distress, the greater reason there will be to love him. Business among reliable firms is no longer conducted upon the 'cut-throat' plan because every business firm realizes that upon courtesy, honest dealing and co-operation rests the one hope of success. Business firms can no longer afford to outwit or squabble with even the least of those with whom they have dealings. Out here in the country we find that it is not only perfectly safe to send a check for a shipment of goods to a firm in Chicago, St. Louis or New York City, but we are absolutely certain that we will be treated honorably, by the goods we ordered being shipped as ordered; that if they are not received in good shape they will be exchanged with no extra cost to us, and that if we are not perfectly satisfied in every particular, our money will be cheerfully refunded. And if you have never done business with a firm that misrepresented their goods, that substituted other goods for the makes you

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than a hundred years ago, right here in this community dueling was common. No gentleman of honor would dare refuse if challenged, and war will eventually become as obsolete a manner of settling disputes as has dueling in our day. When warfare is abolished the world will have reached a stage where civilization may really go forward without handicap or hindrance. All the earlier civilizations failed because of the tremendous amount of hand labor which had to be wearily performed at great expense of time and human energy. That one class might advance, another struggled in want and misery, bowed 'neath the weight of back-breaking labor. Now comes modern invention to lift the crushing weight of overwork from humanity's back and give all classes of people a chance to come into their own. That is, modern machinery, devised and controlled by the brain of man, is gradually relieving mankind of the actual drudgery which he was through all former centuries forced to perform. The problem now is to keep humanity at the top of the heap, devising and guiding the machinery, and not allow the machine to become master. After all, a finer, better people; a truer, kindlier human family is what we are all striving for—not the product which the human savers, the machines, may produce; and as the years go by, we are gradually working in that direction.

"The aim of the churches used to be that of saving a part of the people. Today they are beginning to transform the world by serving one another. Uplift work of whatever kind is founded upon the principle of service. There can be no question about it, the world grows better, and if in a life time we can see such advances as these, how much greater must be the count by centuries?"

"At least we have reached a stage in civilization that it is the faith fidelity and honor in our dealings one with another, that has brought us thus far;

and that thru all manner of pillage and plunder, piracy and war, nothing finer or more worth while than this faith and trust in one another has been discovered—and it alone has survived."

The following recipes were tested and contributed by Miss Pearl Culver:

RAISIN PIE.

- 2 Cups raisins
- 2 lemons
- 2 cups white sugar
- 3 tablespoonsful flour
- 1 cup boiling water
- 2 eggs

Piece of butter size of an egg.

Grate the outside of the lemons, squeeze the juice and add to the chopped raisins, sugar, flour, hot water and eggs and mix together. Bake between crusts. This amount will make two large pies.

VANILLA WAFERS.

- 3 eggs
- 1 cup molasses
- 1 cup shortening
- 1 cup sugar
- 2 tablespoonsful soda dissolved in same amount of cold coffee.
- 1 tablespoonful vanilla

Sprinkle of salt.

Mix in the usual way and allow sufficient flour to mould. Roll thin and cut into shapes.

SOUR CREAM CAKE.

- 1 cup sugar
- 2 eggs broken into a cup and filled with thick sour cream
- 1½ cups flour
- 1 teaspoonful cream of tartar sifted with the flour
- ½ teaspoonful soda sifted with the flour.

Combine and flavor with a bit of spice or vanilla and bake in a moderately quick oven.

QUICK CUP CAKES.

Place the flour sifter in the mixing bowl and sift the following:

- 1½ cups flour
- ¾ cup fine granulated sugar
- 2 level teaspoons baking powder
- ½ teaspoonful salt

In a measuring cup melt ¼ cup butter, add a little milk and two eggs, fill the cup with milk and add, with a teaspoon vanilla. Bake in gem pans.

SUGAR COOKIES.

- 2 cups granulated sugar
- 1 cup butter
- 2 eggs
- 1 cup sour milk or buttermilk
- 1 teaspoonful soda (level)
- 2 teaspoonsful baking powder

Mix in order given, sifting in the soda and baking powder with the flour, using just enough flour to handle. Flavor as desired.

SAND TARTS.

- 3 cups brown sugar
- ¾ cup shortening
- 3 eggs
- 1 cup sour cream
- 1 teaspoonful soda and a little salt

Flour enough to handle.

Mix in the usual way, saving the white of one egg to brush over the top after putting the mixture into flat baking pan. Sprinkle brown sugar and cinnamon over top and bake in quick oven. Cut in squares.

MARGUERITES.

Put 1 cup sugar and ¼ cup boiling water in a sauce pan and allow to boil until it spins a thread when dropped from a spoon. Have the white of an egg beaten stiff and pour the boiled mixture over the egg, beating meanwhile. Add also ½ cup chopped nut meats and beat until the consistency of cake frosting. Spread on dainty thin crackers and place in the oven to brown for a few minutes.

POP CORN CRISP.

Boil 1 cup sugar, 1 cup table syrup, ½ cup butter to a taffy and pour while hot over freshly popped corn. Stir it well, and as it cools flatten it out on a moulding board with a rolling pin. Cut into squares. For the given amount of taffy, a large pan of popped corn will be required.

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Every milk can will
be sweet and sanitary
if you always use

Old Dutch



ST. LOUIS, MO., SHOW.

Held at the Coliseum Thanksgiving Week, 1915.

By F. D. ROGERS.

AS IN previous years, St. Louis held its annual exhibition Thanksgiving week.

With all the interest now centered in one great show, St. Louis is bound to hold its place as one of the largest and best shows of the Middle West. The Coliseum building is well adapted for an exhibition of this nature, and with the well-arranged booths and fine cooping it made a favorable impression to all who were present. Was especially impressed with the system in vogue as to the cooping of the show, the judging starting at schedule time, marked catalogs being issued early during the show.

In the neighborhood of 2,000 birds were on exhibition. The Barred Rocks were, as usual, one of the largest classes—over 200 birds being shown. Mr. W. W. Henderson, of Bridgeton, Mo., made a most creditable showing, winning most of the first and second prizes and best display. Mr. E. A. Webb, Benton, Ill., won first and second exhibition pullet, as well as several other prizes. Mrs. Charles E. Popham, Charleston, Ill., made several entries, every bird being placed.

Fairly good classes of White Rocks were shown, Mr. T. S. Horn winning every first and best display.

White Wyandottes proved to be one of the stellar classes of the show. Mr. B. L. Pavey, Bunker Hill, Ill., made a remarkable showing, winning first and third cockerel, fourth hen and first pul-

let. His birds are of exceptionally good type and attracted much attention.

Single Comb Rhode Island Reds were one of the best classes of the show. Mr. J. J. Moore, Whittington, Ill., winning first pullet on a bird of remarkable type and color, also fourth cockerel. The winnings of E. W. Mahood in all of these classes were indeed exceptional.

The White Orpington classes were not quite as large as in previous years. Aldrich Poultry Farms, Columbus, Ohio, won first and third cockerel, first pullet and first young pen. No old stock shown by them. They were outstanding as to quality and were easy winners in these classes.

The Single Comb White Leghorns proved a large banner class. Mr. G. J. Gerber, of Dalton, Ohio, showing eleven birds. His winnings were first and second cock, first hen in first and second pen. Mr. Gerber decided to make the show at a late date; his birds in the second pen not even being washed, yet won regardless of this handicap.

AWARDS AT ST. LOUIS SHOW.

BARRED ROCKS—W. W. Henderson, Bridgeton, St. Louis Co., Mo., 1-3 cock, ckl.-bred hen, 1 ckl., hen, 1-2, ckl.-bred hen, 1 ptt.-bred pen, 3-4 ptt., 1-3 pen, ptt.-bred cock, 1-2-3 ptt.-bred ckl.; E. A. Webb, Benton, Ill., 2-4 cock, 2-3 hen, 1-2 ptt., 2 pen, ptt.-bred cock, ckl.-bred ptt., ptt.-bred pen, 3 ckl.-bred hen; Alfred Sauerbier, Lee Summit, Mo., 2 ckl.; P. W. Parker, Edwardsville, Ill., 3-4 ckl., 4 ckl.-bred pen; C. F. Hackman, Staunton, Ill., 4 hen, ptt.-bred cock, 3-4 ptt.-bred pen; C. C. Fritz, Staunton, Ill., 4 ckl.-bred hen; Chas. F. Franz, Staunton, Ill., 1 ckl.-bred ptt., 3 ckl.-bred pen; Chas. E. Popham, Charleston, Ill., 3 ckl.-bred ptt.; Chas. H. Kleinschmidt, De Soto, Mo., 4 ckl.-bred ptt.; Mrs. Chas. E. Popham, 2 ckl.-bred pen.

WHITE ROCKS—T. L. Horn, Clayton, Mo., 1-2-4 cock, hen, 1-3 ckl., 1-2 ptt., 1-2-3-4 pen; Fred Sassmannshausen, Clayton, Mo., 3 cock; Otto Zimmermann, St. Louis,

Mo., 3-4 ptt., 2 ckl.; F. Bezenberger, St. Charles, Mo., 3 hen, 4 ckl.

BUFF ROCKS—T. H. Lucas, Pattonville, Mo., 1-2 cock, 2-3 hen; B. H. Schleemer, St. Louis, Mo., 3-4 cock, 4 hen, 2 ptt.; Hugh D. Wilkinson, Columbia, Mo., 1-2 ckl.; F. E. Linder, Greenville, Ill., 1 hen, 3 ckl., 1-3 ptt.; Thos. Elliott, St. Louis, Mo., 4 ckl., ptt.

PARTRIDGE ROCKS—Rosco C. Bell, Mt. Carmel, Ill., 1 cock, 1-3 hen, 2 ckl.; Frank Truttmann, Trenton, Ill., 2-3 cock, 2 hen, 4 ckl., 1-3-4 ptt.; W. H. Langdale, St. Louis, Mo., 1 ckl., 4 hen, 2 ptt.; Chas. Sheffer, Belleville, Ill., 3 ckl.

COLUMBIAN ROCKS—Saml. Plant, Easton Farms, Clayton, Mo., 1 cock, ckl.

WHITE WYANDOTTES—G. E. Rautenberg, Webster Groves, Mo., 1 cock; Carrington Jones, Muntyn, Tenn., 2-3 cock, 1-2-3 hen, 4 ckl., 3-4 lt., 1-2 pen; The Winrose Cottage at Fairfield, Rose Lane, Kirkwood, Mo., 4 cock; B. L. Pavey, Bunker Hill, Ill., 1-3 ckl., 4 hen, 1 ptt.; H. R. Doeding, St. Louis, Mo., 2 ckl.; Earnest Bover, Greenfield, Ind., 2 ptt.; Gus Seaver, Overland, Mo., 3 pen; August Poetting & Son, Maplewood, Mo., 4 pen.

BUFF WYANDOTTES—Wm. J. Dewey, Greenville, Ill., 1-2 cock, ckl., 1-2-3 ptt., 1 pen; Gus Loeffel, St. Louis, Mo., 3 cock, ckl., 1 hen, 2 pen.

GOLDEN WYANDOTTES—John W. Faber, Okawville, Ill., 1 pen.

SILVER WYANDOTTES—Jas. T. Bailey, St. Louis, Mo., 1 cock, 2-3 hen; Mrs. F. R. Walton, Maplewood, Mo., 1-2 ckl., 1-2-3 ptt.; J. Ed. Green, Blodgett, Scott Co., Mo., 3 ckl., 4 ptt.; Mrs. Alf. Armstrong, St. Louis, Mo., 1 hen, 2 pen; Milton C. Lauenstein, St. Louis, Mo., 1 pen.

COLUMBIAN WYANDOTTES—Mrs. J. O. Speed, Webster Groves, Mo., 1 cock, 2-4 ptt.; Mrs. S. T. Honig, Webster Groves, Mo., 1 hen, ckl.; F. R. Walton, 2-4 ckl., 3 ptt.; Leo A. Lee, Chicago, Ill., 3 ckl.

PARTRIDGE WYANDOTTES—E. H. Casey, Ewing, Ill., 1 hen.

SPANGLED WYANDOTTES—A. Zimmerman, St. Louis, Mo., 1 cock, hen.

S. C. RHODE ISLAND REDS—John Grueter, Burlington, Racine Co., Wis., 2 cock; Edw. W. Mahood, Webster Groves, Mo., 1-4 cock, 1-2 hen, pen, 1-2-3 ckl., 4 ptt.; Dr. Jules Baron, Glen Park, Pevely, Mo., 3 cock; J. J. Moore, Whittington, Ill., 4 ckl., 1 ptt.; Miss Minnie Alston, Coulterville, Ill., 3 hen; Herman Seaver, Overland, Mo., 4 hen; M. J. & C. F. Ward, 2-3 ptt.; Clifford L. Jackson, Muskogee, Okla., 3 pen; Mr. and Mrs. Tyrell, St. Louis, Mo., 4 pen.

R. C. RHODE ISLAND REDS—Dr. Virgil Blakemore, Fayette, Mo., 1-2 cock, hen.

Do You Want to Own Winning Birds?

The Henderson Strain are the World's Foremost Plymouth Rocks

Because They Have an Established Official Record for the Past Twenty Years at America's Leading Shows

Their wonderful winnings in the past were eclipsed this year by their performance at two great shows. In competition with the best from the yards of our foremost breeders, and in the largest classes ever shown in the South and great Middle West, they won eighteen out of a possible twenty-two first prizes. This unprecedented victory was attained with two different strings of birds and the fact that the Henderson Strain won every first prize offered on male birds at these two great shows is a revelation in Barred Rock breeding.

Write me if you want the best quality of exhibition birds to show at your coming show. I can send you birds in the pink of show condition at prices that will suit.

I have a grand lot of breeding birds, either cockerel or pullet bred, that have the quality necessary to produce winners. If you want a down to date breeding male bird, I can furnish you with more quality for less money than any other breeder.

Two of the Greatest Wins Ever Made by a Barred Rock Breeder

At the Tri-State Show held at Memphis, Tennessee, the last week in October, 1915, in competition with 553 Barred Plymouth Rocks from the yards of our best breeders, the Henderson Strain won as follows:

First Prize Exhibition Cock, First Prize Exhibition Cockerel, First Prize Pullet Bred Cock, First Prize Pullet Bred Cockerel, First Prize Cockerel Bred Hen, First Prize Cockerel Bred Pullet, First Prize Exhibition Pen, First and Second Prize Cockerel Bred Pens, First and Second Prize Pullet Bred Pens, Special Prize for the Best Display in the American Class; Sweepstakes Prize for the Best Exhibit in the Show, all varieties competing, my birds winning over two thousand points; Sweepstakes Special for the Best Cockerel from Missouri.

NOTE—I won every first prize offered on males and breeding pen at this show.

At the Great Coliseum Show held at St. Louis the last week in November, 1915, in competition with the cream of the country, the Henderson Strain, with an entirely different string of birds than was shown at Memphis, won as follows:

First and Third Prize Exhibition Cock, First Prize Exhibition Cockerel, First Prize Exhibition Hen, First and Third Prize Pullet Bred Cock, First, Second and Third Prize Pullet Bred Cockerel, Third and Fourth Prize Exhibition Pullet, First and Second Prize Cockerel Bred Hen, First and Third Prize Exhibition Pen, First Prize Cockerel Bred Pen, First Prize Pullet Bred Pen; Special Sweepstakes Prize for the Best Display in the Show, all varieties competing; Special Sweepstakes Prize for the Best Pen in the Show, all varieties competing; Special Sweepstakes Prize for the Best Hen in the Show, all varieties competing; Special for the Best Display in the American Class, Grand Champion Male, Grand Champion Female, Special for the Best Colored Male, Special for the Best Shaped Male, Special for the Best Colored Female, Special for the Best Shaped Female.

NOTE—I won every first prize offered on males and pens at this show. My first prize exhibition hen and pen were in a class by themselves, winning both sweepstakes prizes. This is the first time that these honors were ever conferred on Barred Plymouth Rocks at any leading poultry show.

These winnings have never been approached by any other Barred Rock breeder. I have, after twenty years of selective breeding, produced that excellence of quality that shows only in the Henderson Strain, and the official record in the leading show rooms of the country shows without a doubt who has the best producing strain.

Write for my descriptive catalog of one of the largest Barred Plymouth Rock farms in the world.

For the season of 1916 I will mate forty breeding pens which will consist of the finest specimens of Barred Rocks that were ever selected for breeding purposes. Send your order for eggs as soon as possible so they may be shipped to you at the time you want them.

W. W. HENDERSON

BRIDGETON, St. Louis County, MISSOURI

St. Louis Offices, Suite 1212, Central National Bank Building

Rawnsley-Shields Farm WINNINGS

Chicago Coliseum Show

National
Buff Orpington
Club Show

Here are our winnings on S. C. Buff Orpingtons, 1st cockerel, 1st hen, 1st pullet, 1st, 3rd and 5th old pens, 1st and 2nd young pens.

SPECIALS

Color special for best colored male in show. Grand champion cup for best display, cup for best 3 old pens, cup for best 3 young pens. Winning 74 points all told, and 5 club ribbons. Magnificent, massive, rich Golden Buffs for sale in cocks, cockerels, trios, pens, at "live and let live prices." Write us before you place your egg orders.

Sussex Club Show of America

Speckled Sussex

Winnings

1st and 2nd cockerels, 1st and 2nd pullets, 1st old pen, 2nd and 4th young pen, 2nd and 4th cock, 2nd and 5th hen, and Grand Champion Cup best display; cup for best colored male; cup for best colored female; club ribbons for best cockerel and pullet. Winning 76 points in best class Sussex ever shown in America without question.

Limited number high class breeders and show birds for sale. Our egg matings headed by the best line of male birds in America.

Our matings will be headed by the two best male birds in the world—bar none. Our Buff Orpington cockerel, "King of the Coliseum," and our Speckled Sussex cockerel, "Tommy Atkins," won champion trophy at Great Dairy Show, England, over all varieties. Address

**RAWNSLEY-SHIELDS
POULTRY FARM**

Station B

Columbus, Ohio

2-4 ckl., 3-4 plt.; W. C. Hunter, St. Louis, Mo., 3 cock, 3-4 hen, 1-3 ckl., 1-2 plt.

S. C. RHODE ISLAND WHITES—Hy. Eichelmann, Waterloo, Ill., 1 hen.

S. C. WHITE ORPINGTONS—Mrs. F. W. Gloeckner, St. Louis, Mo., 1 cock, 2-3 hen; Geo. B. Spencer, Fredonia, Kas., 2 cock, 1 hen; Deo Klein, Gillespie, Ill., 3 cock, 4 ckl.; J. C. Beare, Progressive Orp. Farm, Ft. Gage, Ill., 4 cock; Aldrich Poultry Farm, Sta. B, Columbus, O., 1-3 ckl., 1 plt. pen; Robt. M. Iten, Overland, Mo., 2 ckl. 3-4 plt.; Tom Carlo, St. Louis, Mo., 4 hen; Chas. H. Brown, St. Louis, Mo., 2 plt.; Geo. Bunser, 2 pen.

S. C. BUFF ORPINGTONS—W. T. Elrod, Marissa, Ill., 1 cock, 4 hen; Edw. H. Evers, St. Louis, Mo., 2 cock; Clarence W. Adams, Maxwell, Ill., 3 cock, 1 hen, 3 ckl.; J. C. Beare, 4 cock; N. A. Benoit, St. Charles, Mo., 1 ckl., 1-3 plt.; N. C. Teasdale, Wellston, Sta. Mo., 2 ckl., 4 plt., 1 pen; L. L. Hamilton, Overland, Mo., 4 ckl., 2 plt.; Mrs. R. Lee Alford, Vandalia, Mo., 2 hen; Carrie Hodacker, Wellston, Mo., 3 hen; Clayton Paulding, Greenville, Ill., 2-4 pen; Herman J. Dreher, St. Louis, Mo., 3 pen.

S. C. BLACK ORPINGTONS—E. M. Long, Osceola, Ind., 1-2 cock, hen, plt.; Jake Bene Poultry Farm, Kinloch, Mo., 1 ckl., 3-4 plt.

BLUE ORPINGTONS—Fred J. Patterson, Harrisburg, Ill., 1 ckl., 1-2 plt.; J. C. Beare, 2 ckl.

RED SUSSEX—A. Horn, Webster Groves, Mo., 1 ckl., 1-2-3-4 plt.

SPECKLED SUSSEX—Sussex Poultry Yards, Waterford, Wis., 1 ckl., 1-2 plt.; W. T. Elrod, 3-4 plt.

DARK CORNISH GAMES—Dawdy & Dawdy, Greenville, Ill., 1 cock, 2 hen, 4 ckl., 1-4 plt.; A. Horn, 2 cock, 1 hen, 2-3 ckl., plt.; Geo. W. Lautenschlager, St. Louis, Mo., 1 ckl.

WHITE CORNISH—A. Horn, 1-2 hen.

PARTIDGE COCHINS—Gustave H. Weihe, St. Louis, Mo., 1-2 ckl., 1 hen.

LIGHT BRAHMAS—McAdams and Meyers, Greenville, Ill., 1-4 cock, 3-4 hen, 1-2-3-4 ckl., 1-2-3 plt., 2-3-4 pen; Benj. F. Switzer, Indianapolis, Ind., 2-3 cock, 1-2 hen, 4 plt., 1 pen.

BLACK LANGSHANS—Wm. L. White, St. Louis, Mo., 1 ckl.

BUFF COCHINS—W. A. Kappey, St. Louis, Mo., 1 cock, pen.

S. C. WHITE LEGHORN—G. J. Gerber, Dalton, O., 1-2 cock, 1 hen, 2 pen; L. E. Warren, Webster Groves, Mo., 3 cock, 1 ckl., 1-2 plt.; J. L. & L. R. Teckenbrock, Clayton, Mo., 4 cock, 3-4 ckl., plt., 1-3-4 pen, 2-3-4 hen; J. W. Weber, Belleville, Ill., 2 ckl.

R. C. WHITE LEGHORN—L. G. Householder, Bonaparte, Ia., 1 cock, hen, ckl.; Gus M. Stoeckl, Wellston, Mo., 2 hen, ckl., plt.; D. C. Keleher, Sedalia, Mo., 3 ckl.; W. R. Wright, Nashville, Ill., 4 ckl.

S. C. BROWN LEGHORN—Geo. L. Hornbrook, Decatur, Ill., 1 cock, 1-3 hen, 2-3 ckl., 3-4 plt.; R. E. Korman, Farm, Webster Groves, Mo., 2 cock, 4 hen, 1 ckl., 2 plt.; H. V. Tormohlen, Portland, Ind., 3 cock, 2 hen, 4 ckl., 1 plt., pen.

S. C. BUFF LEGHORN—Ben W. Marshall, St. Louis, Mo., 1-2 cock; L. D. Hamilton, Overland, Mo., 1 ckl.

R. C. BUFF LEGHORN—Oliver Kohr, St. Louis, Mo., 1 cock, ckl., 2 plt.; Miss Bernice Kohr, St. Louis, Mo., 1 plt.

BLACK LEGHORN—Mrs. Carrie Gloeckner, 1 ckl.; Mrs. M. S. Ziegler, St. Louis, Mo., 1-2 hen.

S. C. ANCONA—H. & D. Lange, Bismark, Mo., 1 ckl., pen, 1-2-3 plt.; Chas. E. Risser, Dayton, O., 4 plt.

S. C. BLACK MINORCA—Schaper & Steffen, St. Louis, Mo., 1-2 cock, 1 hen, pen; Geo. J. Deuber & Son, St. Louis, Mo., 3-4 cock, 1-3 ckl., 1-2-3 plt., 2 pen; Jeffries Poultry Farm, Kirkwood, Mo., 2 ckl.; F. E. Risk, Gillespie, Ill., 4 ckl.; Dan Oberhelmann, Holstein, Ill., 2 hen; Oscar W. Blanke, St. Louis, Mo., 3 hen, 4 plt., 3-4 pen; E. C. Kreibohm, St. Louis, Mo., 4 hen.

R. C. BLACK MINORCA—Oscar W. Blanke, 1 ckl., 1-2 hen.

S. C. WHITE MINORCAS—M. R. Wells, Muskogee, Okla., 1 cock, ckl., 1-2 hen, plt.

R. C. WHITE MINORCA—C. E. Miller, Jerseyville, Ill., 1 hen, ckl., plt.

BUFF MINORCA—Mammoth Minorca Yards, 1 cock, hen, ckl., plt.

BLUE ANDALUSIAN—Theophilus Agne & Bro., Belleville, Ill., 1 cock; Harry Calvin, St. Louis, Mo., 1 ckl., 1-2 hen.

HOUDAN—M. S. Ziegler, 1 cock, hen; John A. Kimmel, St. Louis, Mo., 2 cock, 2-3 hen; Mrs. Edward Neal, 1 ckl., plt., pen; Wm. Haries, St. Louis, Mo., 2 plt.

WHITE CRESTED BLACK POLISH—Geo. Reif, St. Louis, Mo., 1-2 cock, hen, ckl., 2-3 plt.

SILVER SPANGLED HAMBURG—W. W. McKee, St. Louis, Mo., 1 cock.

SILVER CAMPINE—H. R. Doering, St. Louis, Mo., 1 cock; Arthur E. Smith, New Douglas, Ill., 2 cock, 3 ckl.; Geo. Boettler,

50 Best Paying Varieties

Hardy Northern raised Chickens, Ducks, Geese and Turkeys. Pure bred heaviest laying strains. Fowls, Eggs, Incubators, all at low prices. Large new Poultry Book and Breeders' Complete Guide Free. **W. A. WEBER, Box 952, Mankato, Minn.**



St. Peters, Mo., 1-2 ckl., 1-2-4 plt.; Henry Schifferdacker, Red Bud, Ill., 4 ckl., 3 plt.

GOLDEN CAMPINE—J. B. Trierweiler, Carlyle, Ill., 1 ckl., plt.; Geo. Boettler, 2-3 ckl., 2-3-4 plt.

White Langshans

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Breeding Stock in Fine Condition

R. H. Moore, R. F. D. 1, Nellie, Ohio

Beautiful, Healthy Hustlers

Mortgage lenders. World's best Game Fighting Fowls, Mugwumps, Southern Guards, Warhorses, Cuban Muffs, Hennies. Eggs, \$3 per 15, \$5 for 30, assorted to suit. Illustrated Calendar showing famous Game Cock, with price list 10c.

ALFRED F. GRAHAM Moultrie, Ga.



INCUBATOR BROODER \$3.00

The only Incubator and Brooder controlled by nature's true Sectional System, without lamps or regulators. Best offer ever known.

USED BY OVER 350,000 BUYERS

Mr. H. H. Houck, Bucyrus, O., writes: "It is the best system I ever used." Another: "Success is sure with your system."

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grand, big, new fence catalog—free. Let me tell you the finest story of high quality and low prices you ever read. Let me show you why more than 400,000 men have bought over 25,000,000 rods of Brown Fence! Let me tell you how to test Brown Fence or any other fence before you buy—so you can tell which fence is best galvanized and which will last longest.

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Brown fence is Double Galvanized. Poultry and Garden Fences have No. 10 top wires; bottom wires spaced only 1 inch apart. Cheaper than ordinary netting—lasts 5 times as long. 150 fence styles, all prices, all freight prepaid. I'll save you money. Just send me your name on a postal. Address Jim Brown, President.



The BROWN FENCE & WIRE CO.
Dept. 3 Cleveland, Ohio

POULTRY SHOW AT QUINCY,
ILL.

Ninth Annual Exhibition—Held at the New Armory Building, November 22-28, 1915.

By F. D. ROGERS.

UNQUESTIONABLY no show in the Middle West has enjoyed a larger growth from every standpoint than the now well-known Quincy Show. The fanciers were fortunate, indeed, to secure the New Armory Building in which to hold this year's exhibition, which consisted of over 2,000 birds that beamed in quality above the average show.

The poultryman and all interested in the now well-known Quincy Show are indeed an enthusiastic lot of fanciers, making visitors and outside exhibitors feel very welcome and very much at home.

One feature of this show is the banquet which was held Thanksgiving evening at Hotel Quincy, nearly 150 being present to enjoy the festivities of the evening and the hospitality of their Quincy friends. Following the banquet, informal talks were given by very well-known poultrymen and judges who were present. The address of welcome was given by a representative of the Chamber of Commerce, and in his well-chosen remarks, all were made to feel very much at home in Quincy. Among the others called upon at this time were Judges D. E. Hale, Johnson, Heimlich, Thompson and several others whose remarks were well chosen in regard to the poultry industry in general. The show was well cooped, the judging starting promptly.

Barred Rocks proved one of the banner classes of the show both in regard to number and quality shown. Mrs. Charles E. Popham made a most remarkable winning, every bird shown being placed. Mr. G. A. Walker, Polo, Ill., made a creditable showing, every bird being shown by him with one exception being under the ribbons. His first prize exhibition pen were birds of exceptional good type and well deserve the blue.

The classes in Silver Wyandottes were small, but with quality above the average. The veteran fanciers A. and E. Tarbox, Yorkville, Ill., winning every first and several other prizes. The quality of their Silvers is well known throughout the country.

The Buff Wyandottes shown by Charles Howison, Sandwich, Ill., captured first cock, first cockerel, first pullet and first hen. They were well shown and much admired by the Buff Wyandotte fanciers present. First prize pen was won by Roy H. Waterman, Barrington, Ill.

Single Comb Rhode Island Reds were out in large numbers and included many individual specimens that commanded the attention of all the Red fanciers during the show. The birds shown by Royal Red Yards, London Mills, Ill., were of especially fine type and typical Reds in every way.

Single Comb White Leghorns were as usual, one of the star classes of the show. Mr. C. W. Moeller, Quincy, Ill., captured the majority of prizes and best display. His first prize cockerel and pullet were easy winners in these large classes. This speaks volumes for the quality of Mr. Moeller's birds.

In Buff Orpingtons we found a very

W. F. FRASE, Exclusive Breeder of High CLASS RED SUSSEX

QUALITY rather than QUANTITY with me. A few fine Cockerels and Trios for sale at reasonable prices. Write me just what you want in first letter. Mating List ready February 1st.

W. F. FRASE, East Akron, Ohio. Route 21.

GOLDEN CAMPINES

Again I win at Chicago—1st young Pen; 1st old Pen; 1st Cock and best Display at National Club meet. Write me for prices before you buy stock or eggs. 4 pens headed by a first New York or Chicago winner.

MRS. A. A. CARVER

SEVILLE, OHIO

My Campines are bred on a separate farm devoted exclusively to Golden Campines

Schultz's Buff Wyandottes

My latest win at the Chicago

Coliseum Show, December, 1915, stands unequaled. In the strongest and best class of Buffs ever shown, I won 1-5 Cocks; 1-2-3 Hens; 3 Cockerels; 1-5 Pullets; 1 Old Pen. 13 placed—15 shown. Stock and eggs.

W. F. SCHULTZ, Box 97

Cuyahoga, Falls, Ohio

Improver White Wyandottes
Chicago Coliseum Show, 1915
First Young Pen, First Hen, First Pullet
Third Cock

MAKE BIG WINNING AT INDIANA AND KENTUCKY STATE FAIRS, 1915

Indiana State Fair: 1st Cockerel, 2nd Pullet, 3rd Young Pen. Kentucky State Fair in a class of 133 competing against the largest breeders in the West, my winnings were 1st, 3rd, and 5th Cockerel, 1st and 2nd Pullet, 2nd Pen.

My recent winnings show the quality of my young stock of which I have the best lot I ever owned. I can furnish you winners for any show, conditioned and washed. Show birds \$10.00 up. Some nice cockerels at \$5 and \$7.50 that are big values. Pens \$15 to \$20. DEMBERGER-BARRON Cockerels \$2.50. Utility Pullets or Hens \$2. Return unsatisfactory stock at my expense. HEAD YOUR FLOCK WITH AN IMPROVER MALE.

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SPECKLED SUSSEX

The Coming Show Fowl of America

Great winter layers. The fastest growing fowl in existence, having the largest per cent of the finest flavored flesh to offal of any breed, making them the King of utility fowls.

At Quincy last November I won three blue ribbons on three entries—cockerel, pullet and pen.

I have two pens of this great variety from which I can spare a few eggs at \$5.00 per 15.

Pen No. 1, headed by 1st pen cockerel at Quincy and a son of last season's Crystal Palace champion bird.

Pen No. 2, headed by a son of last season's Buffalo winner.

These two males are mated to my Quincy winning females and daughters of Crystal Palace, Madison Square and Buffalo winners. Free mating list ready soon.

CHAS. A. SIMMONDS, SPECIALTY BREEDER, CAMP POINT, ILL.



WILLIAM THE CONQUEROR
One of our Prize Winners

TENACRE

S. C. WHITE LEGHORNS

Exhibition and Utility

OUR RECENT WINNINGS
AT TRENTON

1st Cock; 1st and 2d Cockerel; 1st, 2d, 3d, 4th Hen; 1st, 2d Pen; 1st, 2d, 3d Pullet and several Specials.

A FEW CHOICE PULLETS
NOW IN FULL LAY
EARLY HATCHED BREEDING
COCKERELS OF
EXCELLENT TYPE,
at reasonable prices.

HATCHING EGGS and BABY CHICKS in SEASON

WRITE FOR CATALOG

TENACRE POULTRY FARM, R. F. D. No. 3, PRINCETON, N. J.

WELLS' WHITE WYANDOTTES

The kind that lay. Winners at North Randall (Cleveland, O.), Ohio State Fair and Mt. Vernon, O., in 1915. Both utility and exhibition strains. We have mated our breeding pens for 1916. Send for mating list at once and book your egg orders early, as they will be filled in order. We guarantee satisfaction.

R. E. WELLS, Manager

SPARTA, OHIO

Wheeler's White Wyandottes and R. C. White Leghorns

1000 Breeders for Sale; Young and Old

Extra large, snappy, vigorous birds, with world of color and type. Trap-nested and bred for heavy egg production.

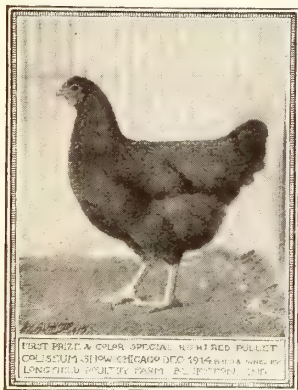
Wyandottes, bred from America's best strains. Leghorns sired by first prize cockerel at Madison Square Garden and Boston winners. State your wants.

Satisfaction guaranteed. Prices reasonable.

ALBERT V. WHEELER

CARLINVILLE, ILL.

LONGFIELD R. C. REDS



Are again victorious at the greatest of all Red shows, winning

3 FIRST PREMIUMS

At the December, 1915

Chicago Coliseum Show

Being the only R. C. Red breeder to win more than one first premium. Our complete awards were: 1st cock, 1st old pen, 1st and 5th young pen, 2nd and 4th hens, 2nd pullet, silver cup for best display, silver cup for best four cocks, silver cup for best four hens, silver cup for best four pullets, and shape and color specials on male.

At this great show we have won best display three successive years—a record—and in the past five seasons have won more than four times as many first premiums as any competitor.

We have a fine lot of stock for sale in both breeding and exhibition birds—on approval always. Illustrated mating list ready February 1st.

LONGFIELD POULTRY FARM

Box 321

Bluffton, Indiana

TRAP-NESTED

S. C. White Leghorns

Are the Kind that Pays

We are ready to take your orders for Baby Chicks and Hatching Eggs for the season of 1916. Order early and you will not be disappointed, as we were sold out early last season. Our S. C. W. Leghorns are not the result of one or two seasons experiment in trap-nesting, but have been carefully selected and bred by us for years, and today they stand foremost in utility trap-nested qualities. Our breeding pens are made up of trap-nested hens with records of two hundred eggs and upwards. We have a few more breeders for sale. Allow us to quote you prices that will astonish you.

Illustrated Catalog Free.

LILY WHITE POULTRY FARM

J. F. Best, Manager

SAGINAW, MICHIGAN

large class. The second prize cockerel, and also first pen, were exhibited by Mrs. Charles Hartman, of Loraine, Ill., Mrs. Hartman having the honor of winning the champion pen of the show, all varieties competing.

The classes in Single Comb White Orpingtons were especially good. Wm. and C. W. Tyler, of Elgin, Ill., winning the second cock, first and second hen and first pullet. These birds were indeed outstanding and well deserve the honor.

AWARDS AT QUINCY, ILL.

BARRED ROCKS—Ralph Lydick, South Bend, Ind., 1 cock, 2 pen; Mrs. Chas. Popham, Charleston, Ill., 2 cock, 1 hen, 1-5 ckl., 3 plt., 1-5 plt. bred cock, 1 plt. bred ckl., 1-4 ckl. bred hen, 2-4 ckl. bred plt., 2 plt. bred pen, 1 ckl. bred pen; Harry Roberts, Springfield, Ill., 3 cock, 2 hen, 2 ckl. bred hen, 3 pen, 5 plt. bred pen; F. W. James, Toulon, Ill., 4-5 cock, 2 ckl., 2 ckl. bred hen; J. J. Garte, Galesburg, Ill., 3 hen, 4 plt.; Geo. A. Walker, Polo, Ill., 5 hen, 3 ckl., 4 plt. bred cock, 2-3-4 plt. bred ckl., 3 ckl. bred hen, 1 pen, 3 plt. bred pen; W. E. Plowman, Quincy, Ill., 2 hen; Ed. J. Barth, Quincy, Ill., 4 ckl.; Chester Jack, Streator, Ill., 1-5 plt., 5 ckl.; G. E. Robinson, Sheridan, Ill., 2 plt.; Warren H. Orr, Hamilton, Ill., 3 plt. bred cocks; Ben Kansteiner, Quincy, Ill., 5 ckl., bred hen; Hy. Schultz, Kinderhook, Ill., 5 ckl., 5 ckl. bred plt., 4 ckl. bred pen; H. B. Lowe, Decatur, Ill., 3 pen; Cleve Stout, Gregory, Mo., 4 pen, 1 plt. bred pen, 2 ckl. bred pen; Ellen S. Betts, Mendon, Ill., 5 pen, Hawkeye Poultry Yards, Mt. Pleasant, Ia., 4 plt. bred pen.

BUFF ROCKS—Aber. Gelande, Oregon, Ill., 1 cock, hen, 3 ckl., 4 plt.; E. A. Meyers, Mt. Sterling, Ill., 2-5 cock, 2-4 pen, 1 ckl., pen; Kellogg & Kellogg, Cambridge, Ill., 3 cock, 3-5 hen, 2 ckl., 1-3 plt.; A. Weisenberger, Jr., Quincy, Ill., 4 cock; G. B. Baker, Callao, Mo., 4-5 ckl.; Arthur & Sybil Hamilton, Petersburg, Ill., 2 pen.

WHITE ROCKS—K. A. Timpe, Quincy, Ill., 1 cock; Harms Bros., Forrest, Ill., 2 cock; Arthur E. Lemieux, Chicago, Ill., 3 cock; Wm. H. Wensing, Quincy, Ill., 4 cock, 2 hen; J. H. Sharer, Princeton, Ill., 5 cock, pen; P. A. Laird, Auburn, Ill., 3 hen, 1-2 pen; John G. Blomer, Quincy, Ill., 4 hen, 1 ckl., 4-5 plt.; J. C. Rickey, Clarence, Mo., 1-5 hen, 2 plt., 4 pen; Edwin N. Piper, Eureka, Ill., 4-5 ckl.; P. W. Ballard, Galesburg, Ill., 2 ckl.; R. Porter, Paris, Mo., 3 ckl.; R. B. Law, Sheridan, Ill., 1-3 plt., 3 pen.

PARTRIDGE ROCKS—Dr. Statler, Gran-ger, Mo., 1 cock, 1-2 hen; Wm. Burkhart, Sandwich, Ill., 2-3 cock, 1-2 ckl., 1 pen; Ed. Barth, 3-4 hen, plt., 3 ckl., 2 pen.

SILVER WYANDOTTES—A. & E. Tarbox, Yorkville, Ill., 1-3 cock, 1-2 hen, ckl., plt., 1 pen; Albert P. Wiegmann, Quincy, Ill., 2 ckl., pen, 3 plt.; Wm. Mitchell, Clarence, Mo., 3 ckl.; Walter Elam, Golden, Ill., 4 cock, 3 hen, pen; M. F. Martin, Chicago, Ill., 4-5 plt.; E. F. Turner, Quincy, Ill., 4 pen.

GOLDEN WYANDOTTES—R. L. Kelly, Quincy, Ill., 1-2-3 hen.

BUFF WYANDOTTES—Roy H. Waterman, Barrington, Ill., 1 pen; Chas. M. Howison, Sandwich, Ill., 1 cock, hen, ckl., plt., 2 pen.

COLUMBIAN WYANDOTTES—Fred P. Schroeder, Streator, Ill., 1 hen, pen, ckl., 1-2 plt.

PARTRIDGE WYANDOTTES—J. W. Kell, Sandwich, Ill., 1 cock, pen, 1-2 hen, 2 plt.; Geo. Hilleke, Quincy, Ill., 1 ckl., plt.

WHITE WYANDOTTES—W. B. Meils, Streator, Ill., 1 cock, 3-5 plt., 5 pen; Chester Jack, 5 cock, 1 hen; Illinois State Reformatory, Pontiac, Ill., 1-3-4 ckl., 1-2 plt., 7 pen; Wm. B. Meuler, Staunton, Ill., 2 hen, Harms Bros., 2 cock, 5 ckl.; B. B. Romig, Woodland, Mo., 3 cock, pen; Mrs. Robert Rhea, Earlville, Ill., 2 ckl.; Roy Kemper, Clarence, Mo., 3-5 pen, 4 pen, plt.; James E. Young, 4 hen, 2 pen; C. Merkle & Son, Chicago, Ill., 4 cock.

S. C. REDS—Royal Red Yards, London Mills, Ill., 1-2 cock, 1 hen, plt., yng. pen; Geo. M. Schoenhardt, Freeport, Ill., 2 hen, yng. pen; Mittendorf & Johnson, Lincoln, Ill., 3 cock, 1-2-3 ckl.; Tom Mendenhall, Ridgefarm, Ill., 4 cock, 5 hen, 2 plt., 3 yng. pen; C. P. Scott, Peoria, Ill., 3 hen, 4 ckl., yng. pen; Mrs. Charles Griffin, Dawson, Ill., 1 old pen; S. H. Rickey, Clarence, Mo., 3-4 plt., 5 yng. pen, 2 old pen; Anderson & Dunbar, Quincy, Ill., 5 cock; C. M. Ewalt, Canton, Ill., 5 ckl., plt.

R. C. REDS—R. O. Good, Polo, Ill., 1-3 cock, 5 hen, 1 ckl., plt., 3 yng. pen; Jos. J. Fischer, Quincy, Ill., 2 cock; E. G. Horner, Quincy, Ill., 2 ckl., plt., 1 yng. pen; Warren T. Heaps, Kewanee, Ill., 1-3 hen, 3-4 ckl., 2 yng. pen; Chas. Thornhill, Quincy, Ill., 2-4 hen, 4 yng. pen; W. P. Gorrell, Gregory, Mo., 4 cock; W. G. Bushby, La Harpe, Ill., 5 cock; Fred Thornton & Son, Streator, Ill., 5 ckl.

LIGHT BRAHMAS—Robt. McIntire, Sheridan, Ill., 1 cock, 3 ckl., 2 plt.; Mrs. Fred Foster, Earlville, Ill., 1-2 cock; J. H. Fowlie,

Sheridan, Ill., 1-2 ckl., 1-3 plt.; Mrs. A. E. Meyers, Quincy, Ill., 1 pen.
BLACK LANGSHANS—W. A. Meyer, Bowling Green, Mo., 1-3-4 cock, 2 hen, 1-2 pen; Mrs. J. L. Leslie, Monticello, Mo., 2 cock, Henry L. Jacobs, Lima, Ill., 3 pen; Walter Fox, New Canton, Ill., 4-5 pen.

S. C. BROWN LEGHORNS—Hugh James, 1 cock, ckl., plt., 2 hen, C. H. Brink, Quincy, Ill., 1 cock, 2 plt.

S. C. WHITE LEGHORNS—Chas. Rickey, Clarence, Mo., 1-2 cock, 2-4 ckl., 3 pen; W. E. Plowman, Quincy, Ill., 1-2 hen, 3-5 plt., 1 pen; Carl W. Mueller, Quincy, Ill., 1-3 ckl., 1-2-4 plt., 2 pen; Andrew Hummert, Quincy, Ill., 3 cock; Kolbs Ideal Farm, Burlington, Ia., 3-4 hen; O. E. Faxon, Plano, Ill., 4 cock; H. Eichelschulte, Quincy, Ill., 5 cock, hen; Mrs. W. L. Curd, Saverton, Mo., 5 ckl.; A. D. Taylor, Springfield, Ill., 4 pen; E. H. Lyon, Bristol, Ill., 5 pen.

C. BUFF LEGHORNS—C. H. Fritschow, Brookfield, Ill., 1 cock, plt., hen, 3 ckl.; J. W. Von Holt, Brookfield, Ill., 2 ckl., plt.; O. B. Colgan, Defiance, O., 1 ckl., 3 plt.

R. C. BUFF LEGHORNS—Chas. Grothe, Burlington, Ia., 1 ckl., pen, 1-2-3-4 plt.

R. C. BLACK MINORCAS—Geo. Kerkoff, Quincy, Ill., 1 cock, 1-2 hen.

S. C. ANCONAS—Edward Reuter, Quincy, Ill., 1 hen, plt.; W. F. Meyer, Quincy, Ill., 1 ckl.; Bevans & Lasswell, Canton, Mo., 4 hen, 3-4 plt., 2 ckl.; Chas. Heuer, Quincy, Ill., 2-5 plt., C. Merkle & Son, Chicago, Ill., 2-3 hen.

R. C. ANCONAS—Herman Menke, 1 pen.

S. C. BUFF ORPINGTONS—A. F. Burger, Keokuk, Ia., 1-5 cock, 4 ckl.; Harris & Jones, Astoria, Ill., 1-3 hen, ckl., 1-2-3 plt., 2 old pen, yng. pen; Mrs. Charles Upright, Lewistown, Ill., 2 cock; J. W. Sawyer, Mattoon, Ill., 3 cock, 2 hen; Mrs. Joe Hartman, Lorraine, Ill., 2 ckl., 1 old pen, 1-5 yng. pen; Otto Baker, Kirksville, Mo., 4 cock, hen, old pen, Fred Gramm, Waterloo, Ia., 4 plt.; Chas. C. Miller, Bloomington, Ill., 5 hen; John T. Stockbarger, Canton, Ill., 5 ckl.; J. W. Jackson, Paris, Mo., 5 plt.; H. M. Woods, Carlinville, Ill., 3 old pen; J. M. Stone, Palmyra, Mo., 4 yng. pen; Richard M. Seward, Lewistown, Ill., 3 yng. pen.

S. C. WHITE ORPINGTONS—Ed. J. Harbin, Riverside, Ill., 1 cock, 3 hen, 4 ckl., 2 pen; Wm. & C. W. Tyler, Elgin, Ill., 2 cock, 1-2 hen, 1 plt.; W. H. Sears, Clarence, Mo., 1-2 ckl., 5 plt.; Harris & Jones, Astoria, Ill., 5 hen, 2 plt., 3-5 pen; Joe Wake, Farmington, Ill., 3 ckl., Chester Jack, 3-4 ckl., H. W. Sherwood, Clarence, Mo., 5 cock, ckl., 3 plt., 4 pen; J. S. Steele, Canton, Ill., 4 plt.; E. C. Angle, Galesburg, Ill., 1 pen.

S. C. BLACK ORPINGTONS—Mrs. W. F. Fry, Quincy, Ill., 2-3 cock, 1-2 ckl., 1-2-3-4 plt., 1 pen; J. S. Steele, 1-4 hen, 1 ckl., Chas. C. Miller, Bloomington, Ill., 2 hen; M. F. Martin, Chicago, Ill., 3 hen.

S. C. BLUE ORPINGTONS—W. A. Meyer, Bowling Green, Mo., 1 cock.

SILVER CAMPINES—A. & E. Tarbox, 1-2 cock, hen, ckl., plt.

RED SUSSEX—Field Bros., Sandwich, Ill., 1 cock, hen; F. S. Tarbill, Havana, Ill., 2 hen, 1 ckl., plt.

SPECKLED SUSSEX—Chas. Simmonds, Camp Point, Ill., 1 ckl., pen.

GRAY CALL DUCKS—A. G. Weisenberger, 1 drake.

WHITE INDIAN RUNNERS—Mrs. J. M. Miller, 1 drake, hen.

ROUEN DUCKS—Tom Mendenhall, 1 drake, hen.

BOURBON RED TURKEYS—Mrs. M. F. Buman, Clayton, Ill., 2-4-5 tom, 2 hen; Mrs. J. T. Worland, Clarence, Mo., 1-3 tom, hen, plt.

TWELFTH ANNUAL SHOW OF THE SOUTH JERSEY POULTRY AND PIGEON ASSOCIATION, BRIDGETON, NEW JERSEY.

This year's exhibition of this energetic and hustling organization, under the able management of Supt. Geo. H. Husted and Sec. Chas. H. Maier, was notable and commendable for many features worthy of imitation by other local show managements.

True, few communities afford such a magnificent hall to stage their exhibitions as the armory of Co. K, N. G., N. J., offering ample space and splendid light and ventilation.

The South Jersey Poultry and Pigeon Association, not only recognize that the future of the poultry industry is dependent upon the boys and girls of today, but in this year's effort they did much to crystallize their theories into practical demonstration. Last Winter the Association made the offer to the High School students of Bridgeton that they would donate to any student, under necessary but easy conditions, a setting of eggs from Standard-bred birds, the breed and variety to be of the student's own selection.

One of the conditions of the donation was that the student receiving a setting must exhibit at least one bird at this year's show.

And I am pleased to report that in the student's aisle at the above show there were entered thirty birds, of most excellent quality, and of such worthy breeds as Barred and White Rocks, White Wyandottes, Rhode

BABY CHICKS

7 Leading Varieties — Utility Panned Fancy, 12c each
THORNWOOD POULTRY YARDS C. A. Sims, Mgr. CRANDALL, INDIANA

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WE furnish chicks hatched from the best Utility and Exhibition Stock from all free range—this insuring you good strong chicks that will grow into

money makers for you. We have had 17 actual years experience in hatching chicks and 11 years in shipping chicks. We will have 5 varieties to offer this year: *B. P. Rocks, S. C. W. Leghorns, S. C. Brown Leghorns, R. C. I. Reds and Broiler Chicks.*

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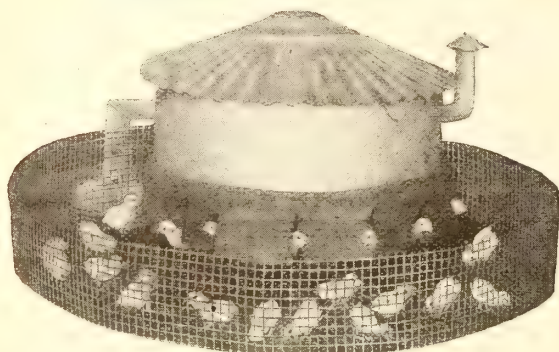
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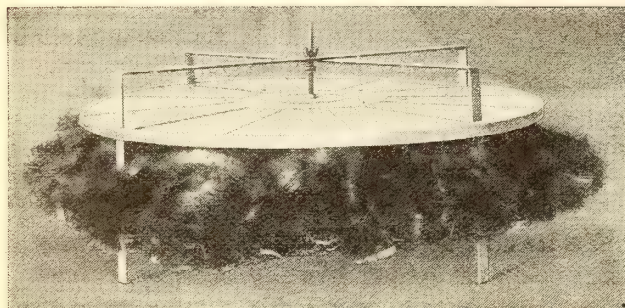
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SIMPLEX SUPPLY HOUSE, Pontiax Bldg., Chicago, Ill.

Island Reds, Light Brahmas and Black Minorcas.

In addition to cash prizes and ribbons awarded the winners on their entries, the Association further offered a first, second and third cash award for the best essay submitted on "How I Raised My Birds."

It is interesting to note that whereas the boys had more entries of birds than the girls, the latter captured most of the "firsts" and a Miss Anna S. Williams had the first prize-winning essay.

As a further effort to interest the young in "more and better birds" after the judges had completed their work, the Association entertained for one hour the students not only of the High School, but of all the public schools of this regressive South Jersey municipality.

Another attractive feature of this show was an exhibit staged in the center of the hall by the New Jersey Fish and Game Commissioners, consisting of several varieties of pheasants, wild turkey, wild geese, duck and teal. Worthy of mention also was the evidence that the merchants and business men of Bridgeton fully appreciate the value of stimulating and encouraging the poultry industry along Standard-bred lines, for a large room in the armory was almost completely filled with articles of merchandise donated as special prizes, many of them of great intrinsic value.

Without any intention of detracting from the credit due the generosity of Bridgeton business men, I feel assured, however, that the show management deserve the greater commendation, for I believe if properly approached the business men of any show community would prove equally generous and helpful.

In regard to the poultry display at this show, Barred and White Rocks, White Wyandottes, and S. C. R. I. Reds were the only large and hotly contested classes. Other breeds and varieties were, of course, in evidence, with many individual specimens of merit, but the competition was not what it should have been. A S. C. Black Minorca was awarded the special for the best cock in show, a truly wonderful bird exhibited by the Lauren Poultry Yards.

I was surprised to find in South Jersey so small an entry of S. C. White Leghorns. Somehow, before I visited Bridgeton, I thought the White Leghorns had run all other breeds and varieties out of South Jersey.

F. C. Carter, of Vineland, starred in S. C. White Leghorns.

Another Vineland breeder, C. W. Brown, captured the special for the best cockerel in the show with his Barred Rock, that at another show only secured fourth in less competition, showing how quickly the bird had matured.

Almost equaling the Barred Rock entries in number and comparing favorably as to quality was the White Wyandotte class. Honors fairly well distributed with Carr Bros., of Vineland, N. J., leading with cock 1-3 cockerel 1-4, hen 1-3, pullet 1-2, and pen 2.

The best hen in the show went to a White Rock, entered by Minch Bros., and they also secured the special for best display in this variety, although the Fairfield Poultry Yards got away with several first and seconds in a class that would have done credit to many larger exhibitions. Best pullet in the show went to a Barred Rock shown by Castner & Dundas, Glen-Gardner, N. J., a bird, if exhibited at the Palace or Garden, would cause some of the habitual winners in this variety at these national shows, quite a little anxiety until the awards were made.

J. H. Petherbridge.

AWARDS OF MISSISSIPPI VALLEY FANCIERS' ASSOCIATION, MOLINE, ILL.

BARRED ROCKS—Peter Stevens, Milan, Ill., 1 cock, 2-3-4 plt.; B. O. Ball, Cambridge, Ill., 2-3 cock, 5 plt., 1 plt.-mated cock, 2 ckl.-mated plt., 1 ckl.-mated pen; C. H. Talbot, Davenport, Ia., 1-2 hen, ckl.-mated ckl., 1 plt., 2 plt.-mated cock; N. F. Hansen, Silvis, Ill., 3 hen! H. Parkman, Aledo, Ill., 1-4 ckl., 1 pen; D. M. Hammond, Savanna, Ill., 2-3 ckl., 1-3 ckl.-mated plt.; Wm. Denen, Aledo, Ill., 5 ckl.

WHITE ROCKS—C. Stoughton, Cambridge, Ill., 1 cock, hen, 3 plt.; H. E. Hasselburg, Moline, Ill., 2 cock; H. O. Chapman, Moline, Ill., 3 cock, hen, 2-4 plt., 2 ckl.; O. M. Meyers, Rock Island, Ill., 4 cock, 2 hen, 1 plt., ckl.; E. S. Shaffer, Moline, Ill., 5 plt., ckl.; Chas. F. Johnson, Kewanee, Ill., 4 ckl.

BUFF ROCKS—Kellogg & Kellogg, Cambridge, Ill., 1 cock, 2 pen, 2-3-4 ckl., 2-3 plt.; L. C. Schmidt, Davenport, Ia., 1-3-4 hen, 4-5 plt., 1 old pen, yng. pen; E. H. Pace, Muscatine, Ia., 1 ckl., plt.

PATRIDGE ROCKS—Clark Vance, Elwin, Ill., 1 cock, 2 ckl.; Kellogg & Kellogg, 2-4 cock, 1-3-4 hen, 3-4 ckl., plt.; Paul Wurtzel, Freeport, Ill., 3 cock; Taylor Bros., Cambridge, Ill., 5 cock, 2 hen, 1-5 ckl., 1-2 plt., 1 pen.

WHITE WYANDOTTES—Bowers & Sons, Aledo, Ill., 1 cock; E. W. Robinson, Rock Island, Ill., 2-4 cock, 1-2 hen, 1 pen; C. G. Daily, Canton, Ill., 3 cock; Fred H. Senke, Davenport, Ia., 1-2 ckl.; H. M. Beaver, Davenport, Ia., 1-2-3-4 plt.; Dr. A. H. Arp, Moline, Ill., 2 pen.

BUFF WYANDOTTES—E. C. Boniger, Davenport, Ia., 1-2 cock, hen, 1-2-3-4-5 ckl., plt., 1 old pen, yng. pen.

PARTRIDGE WYANDOTTES—J. A. Diamond, Davenport, Ia., 1 cock, hen, 3 ckl., 1 plt.; H. R. Morgan, Aledo, Ill., 2 cock, ckl., 2-4 hen, 3 plt., 1 pen; Arthur Gordon, Victoria, Ill., 3 cock, hen; E. E. Worst, Muscatine, Ia., 1 ckl., 2 plt.

S. C. RHODE ISLAND REDS—J. F. Greenwood, Geneseo, Ill., 1-3 cock, 1-2-3-4 ckl., 1-2-4 hen, 1-2-4-5 plt., 1 old pen, yng. pen, 2 pen; H. B. Walck, Sterling, Ill., 2 cock; E. J. Fahnestom, Victoria, Ill., 4 cock; Earl Bollman, Coal Valley, Ill., 5 cock; J. R. Gant, Kewanee, Ill., 5 ckl.; C. P. Gundlach, Lincoln, Ill., 3 hen; Henry Streigel, Jr., Harper, Ia., 5 hen, 4 pen; Louis Mizer, Moline, Ill., 3 plt., pen.

R. C. RHODE ISLAND REDS—D. M. Humphrey, Atkinson, Ill., 1 cock, 1 old pen, yng. pen; O. F. Freeman, Moline, Ill., 2 cock, hen; D. F. Humphrey, Atkinson,

S. C. **BUFF ORPINGTONS**—Gust. Nesland, Davenport, Ia., 1 old pen, cock, 1-2 hen, ckl., 2 yng. pen; 5 plt.; Mrs. Wm. Cottrell, Tipton, Ia., 3 hen, 4-5 ckl., 1-2 plt., 1 yng. pen; Snyder Bros., Letts, Ia., 4-5 hen, 3 ckl.; Henry Karsten, Moline, Ill., 3 plt.

S. C. BLACK ORPINGTONS—L. C. Fairman, Brodhead, Wis., 1 cock, hen, ckl., 4 ckl., plt.; Wm. Karsten, Moline, Ill., 2 cock, ckl., 1 plt.; Miss Morphy, Moline, Ill., 3 ckl.; Oliver Parker, Rock Island, Ill., 5 ckl., 2-3 plt.

S. C. WHITE ORPINGTONS—W. M. Ridnour, Savanna, Ill., 1 cock, pen, 3 plt.; L. H. DeFrates, Davenport, Ia., 2 cock, pen, 1-2 hen, plt., 3 ckl.; Chas. M. Crane, Elkhorn, Wis., 3 cock, hen, 4 ckl., plt.; Iowa Farms, Davenport, Ia., 1 ckl.; H. Schrader, Rock Island, Ill., 5 plt.

DARK CORNISH—C. M. Thee, Davenport, Ia., 1 cock, ckl., 2 ckl., plt.; Fred Daebelliehn, Moline, Ill., 1 hen, plt., pen;

WOODS' BUFF ORPINGTONS have won for 15 years. Twenty-seven prizes including ten blues this fall at three fairs, cooping 7,000 birds. Write for prices.

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Colds and Bronchitis capsules, 100 for 50c. Guaranteed to satisfy or money refunded. Mailed upon receipt of price. Stamps accepted. Write me your troubles.

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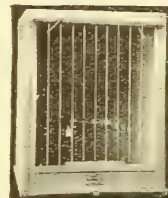
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We have a splendid lot of very high class, GREAT BIG Pekin Ducks. \$3.00 each, males or females, or \$5.00 a pair.

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The same old story. We don't send out any high colored catalogues but give you your money's worth in birds. We won at the Kansas State Fair at Hutchinson 1 Cock, 2-4 Hen, 1-2-4 Pullet, 1-3 Ckl., 1 Pen, all Light Brahma Club specials on shape and color, male and female.

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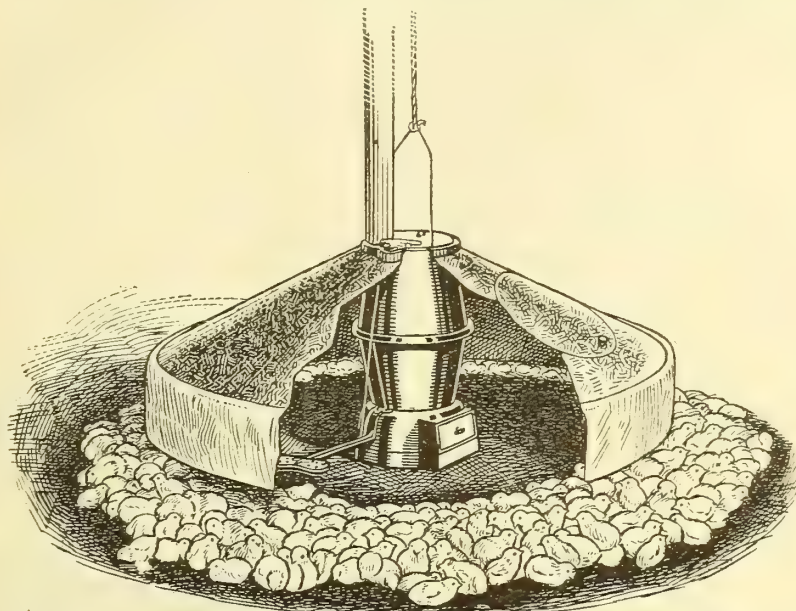
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Also ask for free Poultry Book and name of your nearest dealer.

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This is the Standard Colony Brooder that can be operated on less than 5c worth of coal a day in any temperature. It broods 100 or 1,500 chicks. Made by The Buckeye Incubator Co., Springfield, Ohio.

Ill., 1-3-5 hen, 1-2-5 ckl., 1-2-3-4-5 plt.; W. B. Spears, Moline, Ill., 4 hen, 2 yng. pen; J. R. Gant, Kewanee, Ill., 3 ckl.; Mrs. Wm. Zurmuehlen, Burlington, Ia., 4 ckl., 2 old pen.

BLACK LANGSHANS—Arthur Gordon, 1 cock, hen, plt.

S. C. BLACK MINORCAS—Harold Arp, Davenport, Ia., 1 cock, 4-5 hen, 2 ckl., plt.; W. H. Murray, East Moline, Ill., 2 cock, 1-2-3 hen, 1 ckl., pen, 1-3 plt.; Charles Erickson, Moline, Ill., 3 cock.

R. C. BLACK MINORCAS—Rose Quinn, Davenport, Ia., 1 ckl., plt.

S. C. WHITE LEGHORN—Henry Baasch, Davenport, Ia., 1-4 cock, hen, 1-2 ckl., 1-5 plt.; J. C. Rodewig, Rock Island, Ill., 2 cock; Chas. F. Johnson, 3 cock, hen, ckl.; Lewis Dilley, Davenport, Ia., 5 cock, ckl., 2 plt.; O. F. Freeman, 2-5 hen, 3-4 plt.; F. C. Jellison, Davenport, Ia., 4 ckl.

S. C. BUFF LEGHORN—H. Parkman, 1 cock, hen, pen, 1-2 ckl., plt.

BLUE ANDALUSIANS—J. B. Oakleaf, Moline, Ill., 1 cock, hen, ckl., plt., old pen, yng. pen.

S. C. MOTTLED ANCONAS—Rose Quinn, 1 ckl., plt.; Allan Blake, Moline, Ill., 1 pen.

Sweeney & Simon, Rock Island, Ill., 2 pen. HOUDANS—M. F. Martin, Chicago, Ill., 1-2 hen.

ENGLISH RED CAPS—Dr. A. H. Arp, 1 pen.

SILVER CAMPINES—George Ross, Jr., East Moline, Ill., 1 ckl., plt., pen.

WHITE CRESTED BLACK POLISH—Peter Chrevinsky, Moline, Ill., 1 ckl., plt.

BUFF COCHIN BANTAMS—John Wahlstrand, Moline, Ill., 1 ckl., 1-2-3-4 plt.

GOLDEN SEBRIGHT BANTAMS—Harry Atkins, Davenport, Ia., 1 hen, ckl.

R. C. BLACK BANTAMS—Harold Arp, Davenport, Ia., 1 cock, 1-2 plt.

BLACK COCHIN BANTAMS—G. W. Regenburt, Moline, Ill., 1-2 plt.

BLACKTAIL JAPANESE BANTAMS—Henry Nabstedt, Davenport, Ia., 1 ckl., 1-2-3 plt.

SILKIES BANTAMS—Henry Nabstedt, 1 cock, pen.

WILD MALLARD DUCKS—Dr. A. H. Arp, 1 pen.

WHITE PEKIN DUCKS—Harlan Person, Moline, Ill., 1-2 plt.; Dr. A. H. Arp, Moline, Ill., 1 pen.

ROUEN DUCKS—Harvey Young, Osco, Ill., 1 cock, hen.

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chicks sold; nearly all to old customers, who began to place their orders last August. One customer says:

"I have bought S. C. White Leghorn chicks for several years. The last four years I have bought your 'Pay-streak' strain, they have the others all backed off the map. Its eggs I want, and they deliver the goods." We cannot help but believe his statement, as he ordered 3,000 "Pay-streak" White Leghorns for 1916. Another says: "One of your 'Pay-streak' White Leghorns laid at the age of 116 days." Think of it! Less than four months. They get the profit habit early. Another one: "I kept fourteen pullets from the twenty-five White Wyandottes I bought of you last March; one laid her first egg when four months and twenty-seven days old; one laid at five months and four days; one at five months and ten days; they laid 206 eggs in November. Money couldn't buy them." We showed five White Wyandotte pullets at the Shelby, O., show in December, they scored 95½, 95, 95, 95, 94½. Needless to say they got the ribbons, as well as 1st pen, 1st and 3rd cockerel, and special for best ten birds in show. Good enough for any one, are they not?

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PANAMA-PACIFIC INTERNATIONAL EXPOSITION POULTRY SHOW, SAN FRANCISCO, NOVEMBER 18-25, 1915.

By HARRY H. COLLIER

SAN FRANCISCO Poultry Show or the Panama-Pacific Inter-National Poultry Show, was a good one. The show in point of numbers did not meet the expectation of the management, as Live Stock Commissioner D. O. Lively gave it out that he wanted and would have 12,000 fowls. In this Mr. Lively was mistaken. But what was short in numbers made up in quality.

The official catalog showed that there were 3,252 chickens in the single classes, 1,550 in pens. Display pens made up 276 birds, Bantams showed up with 345 fowls. Pigeons came out to the tune of 1,618, Turkeys 168, Geese 90, Ducks 226 and game farm exhibits 200.

The judges who placed the awards were as follows:

E. C. Branch, Lee Summit, Mo.; W. H. Card, Manchester, Conn.; Harry H. Collier, Tacoma, Wash.; A. H. Currier, Santa Rosa, Cal.; W. M. Coats, Vancouver, B. C.; W. C. Ellison, Elma Center, N. Y.; Mrs. Florence



Spangled Wyandotte hen, "Empress," winner of first at Panama-Pacific Exposition. L. Cook, Oakville, Iowa, Originator Spangled Wyandottes.

Forbes, Decatur, Ala.; A. G. Goodacre, Compton, Cal.; W. R. Graham, Guelph, Ont., Can.; C. G. Hinds, Oakland, Cal.; V. O. Hobbs, Mountain Grove, Mo.; Geo. D. Holden, Owatonna, Minn.; O. L. McCord, Peoria, Ill.; Chas. McClave, New London, O.; Russell F. Palmer, Lincoln, Neb.; W. C. Pierce, Hope, Ind.; Irving Rice, Cortland, N. Y.; W. S. Russell, San Francisco, Cal.; E. G. Roberts, Atkinson, Wis.; Jas. A. Tucker, Royal Oak, Mich.; C. P. Van Winkle, Dallas, Tex.; Daniel P. Shove, Fall River, Mass.; Theo. Wittman, Allentown, Pa.; Walter Hogan, Petaluma, Cal.

The show was well cooped by Spratts, and Superintendent Thomas E. Quisenberry did all he could to make it pleasant and agreeable for the judges, as well as the visitors. It is said that more than a million people saw the fowls during the week, and the fair attendance during the time of the show will make up more than that many people. The show room was one that was used for an exhibit of motors and it is one of the big buildings of the fair. This building was about 500 feet long and 300 feet wide. Every single fowl had a coop to itself and the isles were wide enough to view the fowls in comfort.

I did not attempt to get the number of birds in each variety, as it would mean too much statistics for an article of this kind, but will say that the classes in all of the so-called "utility" varieties were well filled and each exhibitor had all of the competition that he desired, and there was no winning by default.

A sixth or eighth premium at San Francisco would be equal to a first in many shows. The management had the judges issue eight premiums in all varieties and in some cases the eighth premium bird was not very far removed from the best bird in the class. The quality was on hand in most every variety. To go into detail means a whole lot of space, but it is not out of place to say that the first pen in Barred Rocks was as good as in the best of shows. The other pens were up and coming, but the first pen stood out. The first hen, owned by A. C. Hawkins, stood out by herself. The Barred Rock class as a whole was voted one of the best in the show.

White Rocks was a hot class of fowls from cocks to pens. An eighth premium in this class meant that the fowl had won in the warmest competition that White Rocks ever get into. First pen was a dandy and first cockerel, owned by U. R. Fishel, was a bird that could have gone anywhere and won out.

Buff Rocks were there in goodly numbers, and the judge, E. C. Branch, said that the birds as a whole were about as good as he finds in his travels around the circuit. The pullets in my estimation were the best in the class. I did not like the first cock as well as others in the class, but I did not handle any of the birds and only had an outside view. The pullets were well placed and each one deserved its win.

Fishel and Hasselman exhibited a bunch of Blue Plymouth Rocks that attracted quite a little attention.

Partridge Plymouth Rocks were not a large class, but there were a lot of good birds in the show.

Red Pyle Plymouth Rocks turned out with a nice bunch that were much admired by the crowds.

Columbian Plymouth Rocks were a small class of good birds.

Silver Wyandottes was quite a class and the winners were all very good. The Tarbox string from Illinois won a goodly portion of the premiums and their first premium cock was much admired.

Golden Wyandottes was another good class of birds from cocks to pens. The first hen and first pullet standing out in the class.

White Wyandottes were the big class of the family and the "stuff" was certainly on hand. First pen stood out well, but not so much ahead of second. First cockerel was a dandy, and it can go most anywhere and get a mention if not a first ribbon. The class from cocks to pens were all good.

Buff Wyandottes not a large class, but some very good birds in both type and color came out.

Black Wyandottes, another small class of very fair birds. United Farms got the best of this class and took the lion's share of the first.

Partridge Wyandottes made quite a showing and here is where the British Columbia fanciers got in their work.

Silver Penciled, a small class of fair birds.

Columbian Wyandottes, a small class of very good birds.

Black Wyandottes, not a very large class but were pronounced by the judges very good.

Blue Wyandottes, a small class of very fair fowls.

Spangled Wyandottes turned out a good display of very good birds. L. Cook made this display and they had very good Wyandotte shape, as well as Silver Spangled color. This variety

A Revolution in Egg Production. See page 4.



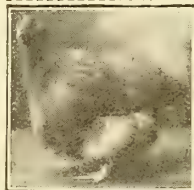
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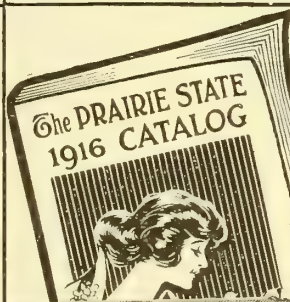
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Michael K. Boyer, Associate Editor American Poultry Advocate, has had exceptional opportunities and the closest friendship with poultrymen all over the country. They have freely told him many of their most jealously treasured secrets, many others we have bought, and this scattered material, together with several of Mr. Boyer's own valued methods, has now been collected in book form. It must be clearly understood that **every secret has been obtained in an honorable way.**

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SECRETS OF FEEDING—Secret of Feeding Grains, Dr. Wood's Laying Food Secret, Feeding Linseed Meal, Feeding Meat and Salt, Proctor's Salt Secret, Brackenbury's Secret of Scalded Oats, Feeding Charcoal, Grit and Oyster Shells, Secret of Green Feed, Secret of Feed at Fifteen Cents per Bushel, Sprouted Barley Secret, Smith's Secret of Preserving Vegetation in Poultry Runs, Important Feeding Secret, Miscellaneous Feed Pointers, Chick Feed Secrets, Seely's Secret of Dry Bran Feeding, Gowell's Fattening Secret, Gray's Fattening Secret, Greiner's Corn Feeding Secret, McGrew's Secret of Feeding During Moulting.

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is in its making, but it promises to make good.

Black and Mottled Javas were out in fair numbers, the blacks leading.

Single Comb Rhode Island Reds were some class. Here was the big exhibit of the show. The first prize pen was listed at \$200, sold at that price and changed hands later in the show for \$500. This was the best sale made in San Francisco show but other good sales were made and some big offers refused.

Rose Comb Rhode Island Reds was another big class of fowls and the winners were good enough to go into the best of company, it matters not whether they were East or West, North or South.

Buckeye was a large class of good birds. The first hen was a fowl that got into the winnings so often that one would well say that he beat the class.

Dark Brahmans were not what might be termed a large class, but there were some fine fowls exhibited in all sexes, including pens.

Light Brahmans, a dandy class of birds. The first hen was a fowl that could take a ribbon in the best company on earth and the cock was a dandy. This was a good class of birds all the way thru.

Cochins in Buff, White, Partridge and Black were not out in large numbers, but the birds that came were very good.

Black Langshans, a large class of good birds. First hen was a bird that stood out like a sore finger. First pullet very good and so was first cock.

White Langshans, a small class, first cock and first hen being the best in the bunch.

Single Comb Brown Leghorns, a large class of good birds. The cock birds were about as good as are brought together anywhere and the sixth prize cock could have easily been placed first without any great amount of kicking and the first lowered to that place. In fact the whole class was good from cocks to pens.

Single Comb White Leghorns, a large class of good birds. The cock that headed the first pen was the best bird in the show, according to my way of thinking. Here was a cock that was as good as the makers of the Standard contemplated when the weights were raised. There was not a poor bird among the winners.

Rose Comb Brown Leghorns, a dandy class of birds. The pens and cocks were more than good.

Rose Comb White Leghorns, a fine lot of birds. The winners were mostly from the coast.

Single Comb Buff Leghorns, a fine class as well as a great quantity of fowls exhibited.

Black Leghorns, a small but very good class of birds.

Silver Leghorns showed up with some very good birds.

Rose Comb Black Minorcas, a goodly lot of birds from cocks to pullets.

Black Minorcas, one of the strong classes of the show. Judge Coats claimed that he found his best birds in this variety in cocks and hens.

White Face Black Spanish, a big lot of birds for the variety and some classy fowls were found in the bunch.

Blue Andalusians were there in goodly numbers, with quality to burn, so said the judge who placed the awards.

Anconas, lots of them, and some mighty good ones. Rose Comb Anconas, another good class, but not so large in numbers as their single comb sisters.

Silver Gray Dorkings, just a few, but very good.

Red caps, only a few, but very fair.

Buff Orpingtons were a fine lot of fowls, first pen being about as good as they make them. This variety was strong from cocks to hens and O. L. McCord, who placed the awards, said that the first pen male was just what the Buff men needed.

Black Orpingtons, a fine class of fowls. First cockerel took the medal for the best fowl in the show. This bird was a dandy and so were the birds in the rest of the class. The record made by the Blue Ribbon Poultry Farm in this class was one to be proud of.

White Orpingtons were on hand in big lots. Every bird had hot competition and the winners were good enough to go into the best company.

Blue Orpingtons, a small class of good birds.

Rose Comb Buff Orpingtons turned out a nice lot of birds.

Rose Comb White Orpingtons were also on hand.

Red Orpingtons also showed up with some very fair fowls.

Dark Cornish were a strong class of fowls from cocks to hens and here was quality to burn.

White Cornish, a nice class of good birds.

White-laced Red Cornish were there and made a good showing.

There was a bunch of Sussex and some mighty good ones exhibited. Gensemer Brothers made a good record with their Reds and they won first and second cocks, first and second hens, first and second cockerels and first and second pullets, not to count first pen. Speckled Sussex were also out in good shape and Gensemer Brothers also were well up into the winnings on some fine birds. Light Sussex came out in goodly numbers and again Gensemer Brothers got their share of the best awards.

Black Polish with their White Crest were on hand with a lot of good birds.

The Polish class as a whole was not large, but several varieties helped to make the show beautiful with their crest and many colors.

Silver Spangled Hamburgs turned out well with some good birds, while their penciled sisters only showed up with a few. Black Hamburg and LaFloch were also on hand.

Houdans, a good class of very nice fowls in every sex and there was quite a showing of them. A few White Houdans were also in the show.

One breeder exhibited a bunch of Crevecours that were looked over by the crowds and they created some interest on account of being so rare.

Campines were out with a big bunch of both Silver and Golden. The first premium cockerel in Goldens was a dandy bird. In fact, the class as a whole was more than good.

Silver Campines, another big class. First cock in this class stood out in fine shape and color. This bird has a reputation of always taking the "blue," matter not the company.

There were some Exhibition Games, but not many. What Games showed were very good in Pyles, Black and Brown Reds with a few Sumatras.

Japanese Silkies were all there to the good, while a few Sultans came forth to either look at the crowds or be looked at.

Rose Comb Rhilanders were on hand, and being a German fowl, they were handed over to A. G. Goodacre, a good

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AWARDS AT PANAMA-PACIFIC EXPOSITION, NOVEMBER 18-25, 1915.

BARRED ROCKS—Rosecroft Barred Rock Yards, Pt. Loma, Cal., 1 cock, 3 hen, 2 plt.; A. C. Hawkins, Lancaster, Mass., 2 cock, 1 hen; M. J. Myers, Portland, Ore., 3 cock, 4 hen, 5 ckl., 1 pen, ckl-bred hen, 3-4 ckl-bred plt.; C. A. Spaugb, Hope, Ind., 4 cock; J. O. Watters, Eugene, Ore., 5 cock; J. M. Taylor, McKune, Can., 2 hen, 4 pen; Ahlquist Bros., 5 hen; Cameron Bros., Sacramento, Cal., 1 ckl., 4 plt., 2 pen; C. J. McClanahan, Eugene, Ore., 2 ckl.; L. B. Anderson, Nevada, Mo., 3 ckl.; E. A. Brew, Oakland, Cal., 4 ckl.; S. N. Tremper, 1 plt.; B. F. Keeney, Eugene, Ore., 3 plt., pen; Golden Rule Poultry Farm, St. Helena, Cal., 5 plt., 2 plt.-bred pen; A. C. Berntzen, Eugene, Ore., 5 pen; George H. Mayne, Springfield, O., 1 ckl. bred hen; Langendörfer Bros., Vancouver, Wash., 1 ckl.-bred plt.; Kegley Bros., Little Rock, Wash., 2-5 ckl.-bred plt., 2 plt.-bred cock; L. J. Hall Kenney, Ill., 1-2 ckl.-bred pen; Ed. Ellis, San Francisco, Cal., 4 ckl.-bred pen, 1 plt.-bred pen; H. J. Deten, Tacoma, Wash., 1 plt.-bred cock, 5 plt.-bred ckl.; J. Peterson, Randall, Ia., 3-4 plt.-bred ckl.; M. T. Myers, Portland, Ore., 1 plt.-bred ckl.; William Winnike, Carroll, Iowa, 2 plt.-bred ckl.

R. C. BARRED ROCK—Wenger & Lester, South English, Ia., 1 ckl., plt., 2 pen.

WHITE ROCKS—A. A. Bamford, Gardena, Cal., 1-3-4 cock, 3 ckl., pen; Dr. L. D. Le Gear, St. Louis, Mo., 2 cock, 1-3-4-5 hen, 2-5 ckl., 1-3-5 plt., 1-4 pen; A. A. Giersch, Seattle, Wash., 5 cock; U. R. Fisher, Hope, Ind., 2 hen, 1-4 ckl., 2-4 plt., 2 pen; O. B. Hunt, Berkeley, Cal., 5 pen.

BUFF ROCKS—C. E. Baker, Abilene, Kas., 1-3 cock, 2-3 hen, 3-5 ckl., 1-2-4-5 plt.; W. F. Alden, Ellsworth, Kan., 2-4 cock, 1 hen, 4 ckl., 3 plt.; United Farms, Hope, Ind., 5 cock, 4 hen, 2 ckl., pen; T. B. Elliott, St. Louis, Mo., 5 hen; Wm. H. Kent & Son, Carey, O., 1 ckl.; Mr. and Mrs. F. J. Morgan, Pasadena, Cal., 1 pen; S. F. Hawkins, Tacoma, Wash., 3 pen; W. S. Robison, Fayette, Mo., 4 pen; L. M. Harader, Tacoma, Wash., 5 pen.

SILVER PENCILED ROCKS—A. P. Moore, Stafford, Kas., 1 cock, hen; United Farms, Hope, Ind., 2 cock.

PARTRIDGE ROCKS—R. W. Mead, Norwalk, O., 1-5 cock, 3 hen, 2 pen; C. J. Loyd & Son, Queensbury, Ind., 2 cock, 1-2-5 hen, 2-3 plt.; J. A. McQuiston, Greenwood, Ind., 3 cock; A. H. Lingo, Los Angeles, Cal., 4 cock; Chas. A. Buck, Stevensville, Mont., 4 hen; P. J. Olle, Racine, Wis., 1 plt., 3 pen; H. G. Jackson, Mineral Point, Wis., 2-3 ckl., 4 plt.; E. E. Hyatt, White Hall, Ill., 4 ckl., 5 plt.; Geo. H. Hackett, North Freedom, Wis., 1 pen; L. N. Snyder, Oakland, Cal., 4 pen; Mrs. L. M. Hall, Puyallup, Wash., 5 pen.

COLUMBIA ROCKS—Jas. H. Taylor, Woodstock, Ill., 1 plt., hen, 1-2 ckl.; C. P. Atchison, Jerseyville, Ill., 3 ckl., 2 plt.

RED PYLE ROCKS—W. Lanius, Greensburg, Ill., 1 cock, ckl., plt.

BLUE ROCKS—Fisher & Hasselman, Hope, Ind., 1 cock, 1-2 hen, ckl., plt.

SILVER WYANDOTTES—A. & E. Tarbox, Yorkville, Ill., 1-3 cock, 2-3 hen, ckl., 3 plt., 2 pen; H. Kerl, 2-5 cock, 1 hen, 5 ckl., 4-5 plt.; L. P. Hubbard, Topeka, Kan., 4 cock, 4-5 hen, 1 ckl., plt., pen; R. Mitchell, Tropica, Cal., 4 ckl.

GOLDEN WYANDOTTES—John S. Pennington, Plainfield, Ill., 1 cock, 3 hen, 2 ckl., plt., pen; Martin Bros., Delphin, Wash., 2-4 cock, 5 hen, 3 ckl.; Julius Sinn, Williamsburg, Ia., 3 cock, 2 hen, 1 ckl., 3-5 plt.; Chas. McClave, New London, O., 5 cock, 4 hen, ckl.; H. E. Bates, Galesburg, Ill., 1 hen; Chas. D. Love, Waukesha, Wis., 1 plt., pen; Geo. B. Spaulding, Hamilton, Mont., 4 plt.

WHITE WYANDOTTES—Wm. Stocker, Denver, Col., 1 cock; J. C. Fisher & Son, Hope, Ind., 2-4-5 cock, 1 hen, 2 ckl., 4 plt., 2-5 pen; R. W. Wiscombe, Manhattan, Kas., 3 cock; G. L. Marsh, Waterloo, Ia., 2 hen, 3 ckl.; J. A. Griffin, Eugene, Ore., 3 hen, 1 ckl., pen; Mrs. A. J. Higgins, Effingham, Kas., 4 hen; A. J. Smith, Cedar Rapids, Ia., 5 hen; H. Ringhouse, Clacka-

mas. Ore., 4-5 ckl.; Mrs. W. R. McDonald, Butte, Mont., 3 pen.

BUFF WYANDOTTES—Chas. Howison, sandwich, Ill., 1 cock, ckl.; Jos. H. Saylor, Marysville, Mo., 2 cock; J. A. Bush, 3 cock; S. A. Power & Son, Fairfield, Ia., 4 cock, 1-2 hen, 5 ckl., 3-4 plt.; F. A. Johnson, Tacoma, Wash., 5 cock, 3 hen, 4 ckl., 2 plt.; J. D. Reid, Tipton, Ia., 2-3 ckl.

BLACK WYANDOTTES—United Farms, 1 cock, 1-3 hen, 2-3 plt.; Frank C. Sites, Bay Village, O., 2 cock, 1 ckl.

PARTRIDGE WYANDOTTES—E. A. Orr & Slater, Chilliwack, B. C., 1 cock, ckl., 4 plt.; E. E. Hyatt, 2 cock, 1 hen; Mahajo Farm, Sacramento, Cal., 3 cock; M. J. O'Connor, Darien, Wis., 4 cock, 3 hen, plt.; Dr. G. S. Culver, Sandwich, Ill., 5 cock, 4-5 ckl., 2 plt.; Mary E. Miller, Helena, Mont., 2 hen; J. N. Hazlett, Marianna, Pa., 4 hen; W. L. Dunlap, Springfield, Ore., 5 hen, 2 ckl.; W. H. Thomas, flo, Ida., 3 ckl., 1 plt., 3 pen; Mrs. D. Hanley, Mechanicsburg, O., 1 pen.

SILVER PENCILED WYANDOTTES—O. F. J. Deysenroth, Colfax, Wash., 1 cock, 2 hen, 2-3 plt.; V. G. Warner, Bloomfield, Ia., 1 hen, plt.; United Farm, 3 hen.

COLUMBIAN WYANDOTTES—J. O. Speed, Webster Grove, Mo., 1 cock, hen, ckl., 1-2 plt.; Leo A. Lee, Chicago, Ill., 2 cock, hen; J. Leithem, St. Louis, Mo., 3 cock, 5 plt.; Holby Sayre, Bridgeport, O., 4 cock; Geo. H. Hackett, 3 hen, Mr. and Mrs. Geo. E. Morgan, Oakland, Cal., 2 ckl., 4 plt.; F. D. Fitcher, 2 plt.

BLUE WYANDOTTES—Lloyd C. Rose, Olney, Ill., 1-2 cock, hen.

SPANGLED WYANDOTTES—L. Cook, Oakville, Ia., 1 ckl., plt.

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R. C. RHODE ISLAND REDS—Dr. C. R. Watson, 1-2 cock, 1-2-5 hen, 1 ckl., 1-3 plt., 1-4 pen; United Farms, 3-5 cock, 4-5 ckl., 2 plt., 5 pen; J. M. Clark, Kansas City, Mo., 4 cock, 3 hen, 2 pen; Jas. G. Dickson, Spokane, Wash., 4 hen, plt.; J. D. Veach, Hubbard, Mont., 2 ckl.; R. N. Clarke, Vernon, Can., 3 ckl.; John Voss, Florence, Mont., 5 plt.; Mr. and Mrs. F. C. Krueger, Charles City, Ia., 3 pen.

S. C. RHODE ISLAND WHITES—W. E. Swift, Waverly, Ill., 1 cock, ckl.

R. C. RHODE ISLAND WHITES—W. H. Everett, Indianapolis, Ind., 1-2 cock, hen, 3 ckl.; W. E. Swift, 3-4 cock, 5 ckl.; Langendorfer Bros., 3-5 hen, H. V. Colburn, Spokane, Wash., 4 hen; F. W. Fredericks, Phoenix, B. C., 1-2 ckl., 2 plt.; Mrs. J. M. Post, Colony, Kas., 4 ckl., 1-4 plt.; G. S. Boller, Little Valley, N. Y., 3 plts.; Mrs. G. C. Rash, Burlington, Wis., 5 plt.

BUCKEYES—E. C. Mahon, Norwood, Tenn., 1-2-5 cock, 1-2-3-5 hen, 1-2 ckl.; H. E. Errett, Nevada, Mo., 3 cock, 4 hen, 5 ckl.; C. Cram, Carey, O., 4 cock, 3 ckl.

LIGHT BRAHMAS—E. W. Rankin, Topeka, Kas., 1-4 hen, plt.; F. P. Johnson, Indianapolis, Ind., 2 hen, 1 ckl., pen; F. Portmann, Dyersville, Ia., 3 plt., hen, 2 ckl.; Chas. McClave, New London, O., 5 hen; John Chantry, Yates City, Ill., 4 ckl.; Fairholme Poultry Yards, Boone, Ia., 2 plt., pen; E. C. Mankin, Kansas City, Mo., 5 plt.; Mrs. C. DuJardin, San Francisco, Cal., 3 pen; Wm. W. Jacobs, Tacoma, Wash., 4 pen; J. R. Graham, Topeka, Kas., 5 pen.

DARK BRAHMAS—United Farms, 1 cock, 2-4 hen, 4-5 ckl., 5 plt.; Chas. McClave, 2 cock, 3 hen, J. W. Suplee, Iowa City, Ia., 1-5 hen, 1-2-3 ckl., 1-2-3-4 plt., 2-3 pen; Dr. F. Griffin, Hanford, Cal., 1 pen.

BUFF COCHINS—J. C. Baughman, Topeka, Kan., 1-2 cock, 1-3 hen, 1 ckl., plt., pen; Geo. O. Relf, Salt Lake City, Utah, 3 cock, 4-5 plt.; A. D. Dort, Pawnee City, Neb., 4 cock, 2-4 hen, 2-3 plt., 2 pen; United Farms, 5 hen.

PARTRIDGE COCHINS—Mrs. H. C. Evans, Oakland, Cal., 1 cock, plt.; United Farms, 2 cock, 1 hen; H. McComb, Blanchard, N. D., 3 cock, 3-4-5 hen; Chas. McClave, 2 hen.

WHITE COCHINS—J. W. Blackman, Los Angeles, Cal., 1 hen, ckl., plt.

BLACK COCHINS—J. W. Blackman, 1 cock, hen, 2 ckl.; United Farms, 2 cock, 1 ckl.

BLACK LANGSHANS—Geo. Lohr, San Francisco, Cal., 1 cock, ckl., 5 plt.; Peter Stewart, 2 cock; T. W. Sharp, Springfield, Ill., 4 cock, 1 hen, 2-5 plt.; L. E. Meyer, Bowling Green, Mo., 5 cock, hen, 3 ckl.; E. R. McCormick, Letts, Ia., 2-3 hen; J.

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WHITE LANGSHANS—United Farms, 1-4 cock, 3 hen, Mrs. F. Wm. Hoops, Bryon, Neb., 2-3 cock, 2-5 hen, Hanson's Poultry Farm, Dean, Ia., 1-4 hen, 1 ckl.; W. E. Shackelford, Napton, Mo., 1-2 plt.

S. C. BUFF MINORCAS—Lindgren Bros., Kingsburg, Cal., 1-3 cock, 1-2 plt., hen 2-3 ckl., 1 pen; William F. Williams, Los

hajo Farm, Sacramento, Cal., 5 cock; J. P. McDonough, Santa Rosa, Cal., 1-2 hen, 4 plt., 3 pen; W. H. Caterall, 5 hen; J. A. Schuler, Fruitvale, Cal., 4 pen; J. F. Whipple, San Rafael, Cal., 5 pen; Fred Cheviront & Son, Lincoln, Neb., 2 pen.

R. C. WHITE MINORCAS—H. H. Ruth, Appleton, Wis., 1 cock, 3 hen, 2-3 ckl., 2 plt.; W. N. Staley, Waterloo, Ia., 1-2 hen; Chester E. Miller, Jerseyville, Ill., 1 ckl., plt.

S. C. BROWN LEGHORNS—J. C. Williams, Fullerton, Cal., 1-2-3-5 cock, hen, 1-2-3 ckl., 3 plt., 1-2 pen, 1-2-3 ckl.-bred hen, 1-2 ckl.-bred plt., 1 ckl.-bred pen, 1

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R. C. WHITE LEGHORNS—J. L. Dorsh, Butte, Mont., 1 cock, 1-5 hen, Miller Bros., Fernhill, Wash., 2 cock, 1-4 ckl., plt.; L. G. Householder, Bonaparte, Ia., 3 cock; Hazelwood Farm, San Mateo, Cal., 4 cock; United Farms, 5 cock, ckl., 2 plt.; Mrs. H.



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S. C. BLACK MINORCAS—J. V. McConnell, Graden Grove, Cal., 1-2-4 cock, 3-4 hen, 1-2-4-5 ckl., 1-2-3 plt.; Cliff Harvey, Cloverdale, Cal., 3 cock, ckl., 1 pen; Ma-

plt.-bred ckl.; H. J. McClung, Tyler, Tex., 4 hen, plt.; Mahajo Farm, 4 ckl., pen; 5 plt.; F. A. Johnson, Tacoma, Wash., 5 ckl.; C. Sydney Cook, Jr., West Newton, Mass., 1 plt.; Dr. H. B. Adair, Kansas City, Mo., 2 plt.; D. L. Dorg, 3 pen; E. H. Rosenkranz, Colfax, Wash., 5 pen; Mrs. Wm. Bond, Newark, Cal., 1-2 ckl.-bred ckl., 1 plt.-bred ckl.

R. C. BROWN LEGHORNS—Lawrielee Hatchery Co., Waukegan, Ill., 1 cock, 4-5 hen, 2 ckl., plt.; United Farms, 2-3 cock, 1 pen; F. A. Johnson, 4 cock, 3 ckl., 5 plt.; Oscar Hantke, Spokane, Wash., 1-3 hen; A. R. Rice, Waverly, Ia., 2 hen, 1-4 plt.; E. G. Roberts, Atkinson, Wis., 1 ckl.; Joe W. Kenney, 4 ckl.

C. Rogers, Oshkosh, Wis., 1 hen, 3 plt.; F. A. Johnson, 2 hen; Jno. S. Gross, Marysville, Mo., 4 hen, 2 ckl., 5 plt.; Lagendorfer Bros., 3 ckl.

S. C. BUFF LEGHORNS—C. W. Hansen, San Mateo, Cal., 1 cock, pen, 4 ckl.; Dr. L. E. Heasley, Holland, Mich., 2 cock; W. L. Bartholomew, Chino, Cal., 3 cock, 1 ckl.; L. E. Merihew, 4 cock, 3-5 hen, ckl.; Mr. and Mrs. Albert D. Larson, Globe, Ore., 5 cock; J. D. Luders, Butte, Mont., 1 hen, 2-4 plt.; Miller Bros., 2 hen; Rosecroft Poultry Farm, Hillsboro, Ore., 4 hen, 5 pen; Lindgren Bros., Kingsburg, Cal., 2 ckl.; E. R. Stromquist, Hoquiam, Wash., 1 plt.; Miss K. Ward, Spokane, Wash., 3 plt.; W. J. Moore, Spokane, Wash., 5 plt.,

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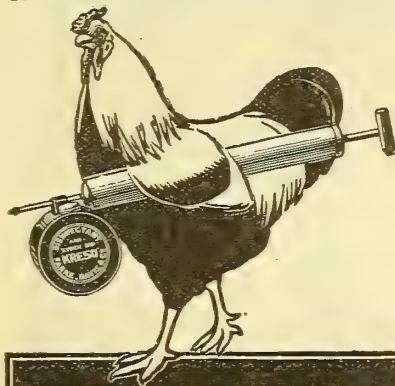
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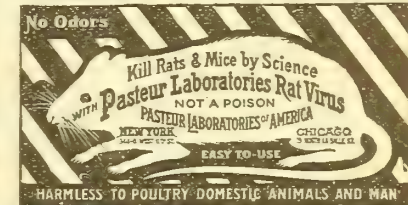


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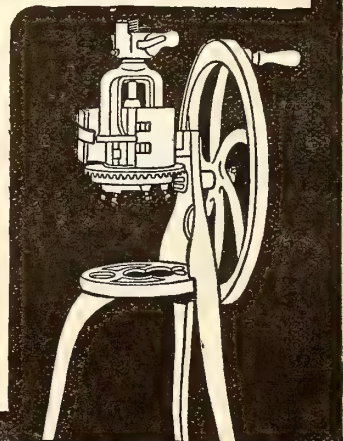
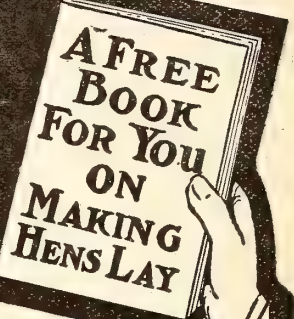
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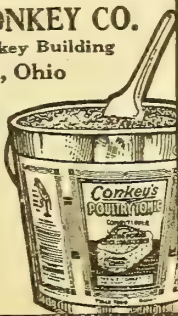
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BUFF ROCKS—E. H. Lichtenwalter, Girard, Pa., 1-4 cock, 2 hen, yng. pen, 3 chl., 1-2 plt., 1 old pen; Nescopeck Poultry Farm, Nescopeck, Pa., 2-3 cock, old pen, 1-3 hen, 2 chl., 3 yng. pen; J. G. Ashe, Raleigh, N. C., 5 cock, hen, 1-4 chl., 3-5 plt., - yng. pen; J. F. Knox, Buffalo, N. Y., 4 hen; D. P. North, Waverly, N. Y., 5 chl., 4 plt., yng. pen.

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PARTRIDGE WYANDOTTES—A. F. Elliott, Port Huron, Mich., 1-2 cock, 1-3 hen; G. W. Grieve, Parkhill, Ont., 2 hen, 1 chl., plt., old pen; George W. Page, Shelby, O., 4 hen, 2 plt.

S. C. RHODE ISLAND REDS—E. M. Dutton, Newfane, N. Y., 1 cock, hen, 2 chl., 1-4-5 plt., 3 yng. pen; Harold Tompkins, Concord, Mass., 2 cock, 3 hen, 1-3 chl., 2-3 plt., 1-4 yng. pen; Wilburtha Poultry Farms, 3 cock, 4-5 hen, 4 chl., 2 yng. pen; Clarence B. Utter, Sayre, Pa., 4 cock; Wadsworth & Caster, Wolcott, N. Y., 5 cock, chl., yng. pen, 1 old pen; A. M. Lockwood, Buffalo, N. Y., 2 hen.

R. C. RHODE ISLAND REDS—E. M. Dutton, 1 cock, 2 hen, yng. pen, 5 chl., 2-4 plt.; Harold Tompkins, 2-4 cock, 4 hen, 1-2 chl., 1-3 plt., yng. pen; C. E. Riley, Ebenezer, N. Y., 3 cock, 1 hen, 5 plt., 2 old pen; R. F. Shelley, Geneva, O., 5 cock, 4-5 yng. pen.

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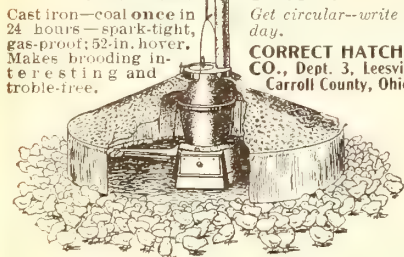
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3 old pen; Mr. and Mrs. Geo. A. Easter, Williamsville, N. Y., 3 hen, 4 old pen; P. M. Ferry, Avonia, Pa., 5 hen; H. L. Greene, Shelburne, N. Y., 4 ckl.; Wadsworth & Caster, 1 old pen.

R. I. WHITES—G. S. Boller, Little Valley, N. Y., 3 yng. pen.

LIGHT BRAHMAS—Norman B. Foster, Marathon, N. Y., 1 cock, 2 ckl., plt.; Emory E. Banks, East Pembroke, N. Y., 1 ckl., plt. WHITE LANGSHANS—George W. Martin, Hornell, N. Y., 1-2-3 ckl., plt.

BLACK LANGSHANS—Urban Farms, 1-3 cock, 4-5 hen, 2 ckl., 4-5 plt., 1 old yng. pen; J. F. Robinson, Weymouth, Mass., 2 cock, yng. pen, 3 hen, 1 ckl., plt.; McDonough & Bidwell, Newark, N. Y., 4 cock, 2 hen, plt.; H. A. Reasner, Julietta, Ind., 1 hen.

S. C. BROWN LEGHORNS—Resseguie & Barlow, Millers, N. Y., 1 cock, pen, 2-5 hen, 4-5 ckl.; Sunny Side Poultry Farm, Warren, Pa., 2 cock, 4 hen, 1 plt.; W. F. Hipner, Buffalo, N. Y., 3 cock; Dr. O. G. Grady Orville, O., 4 cock, 3 ckl., 4-5 plt.; Charles Gleason, Newfane, N. Y., 1 hen, 1-2 ckl., 2-3 plt.; A. D. Cobb, Olean, N. Y., 3 hen; G. & W. Ratz, Tavistock, Ont., 1 old pen.

R. C. BROWN LEGHORNS—G. & W. Ratz, 1-3 cock, plt., 1-4 hen, 2 ckl., 1 old pen; Ralph W. Strong, Kalamazoo, Mich., 2 cock, plt., 3 hen, 1 ckl.; Ray Jackson, Johnstown, N. Y., 2-5 hen.

S. C. WHITE LEGHORNS—Rancocas Poultry Farm, Browns Mills, N. J., 1-3 cock, 1 hen, ckl., old pen, 4 plt., yng. pen; Wm. H. Chilson, Jr., Hannibal, N. Y., 2 cock, 4 hen, ckl., 2-3 plt., 3 old pen, 1 yng. pen; Dan M. Poad, Munhall, Pa., 4 cock; Albert Waldron, Hydettown, Pa., 5 cock; Dr. Bradley, Linscott, Brantford, Ont., 2 hen, 5 ckl.; Moore Bros., Moscow, N. Y., 3 hen, 4 old pen, 2 yng. pen; S. E. MacDougall, Buffalo, N. Y., 5 hen; Sonder Bros., Williamsport, Pa., 2 ckl.; C. H. Chamberlin, Buffalo, N. Y., 3 ckl.; Eagle Bay Farm, Silver Creek, N. Y., 5 plt., old pen, 3 yng. pen; Mrs. M. W. Nevins, Buffalo, N. Y., 5 yng. pen.

R. C. WHITE LEGHORNS—Turtle Point Farm, Saratoga Springs, N. Y., 1-3 cock, 3-4 hen, plt., 1 ckl., 2 yng. pen; W. H. Almendinger, Fort Erie, Ont., 2 cock, hen, 3 ckl., 1 plt., yng. pen; A. F. Almendinger, Buffalo, N. Y., 4 cock, 1-5 hen, 2-4 ckl., 2-5 plt.

S. C. BUFF LEGHORNS—Wilburtha Poultry Farms, 1 cock, ckl., old pen, 1-3 hen, 5 plt.; Harry Gill, Pittsburgh, Pa., 2 cock, yng. pen, 4 hen, plt.; George W. Rex, Slatetale, Pa., 3 cock, 2 hen, 4-5 ckl., 1-2 plt.; George J. Gable, Toledo, O., 4 cock; B. O. Schilling, Rochester, N. Y., 5 cock, hen, 3 plt.; C. M. Matthies, Carrollton, N. Y., 2 ckl.; L. E. Merriew, Marathon, N. Y., 3 ckl., 2 old pen; Inter Park Poultry Yards, 1 yng. pen; Glen View Poultry Farm, 3 yng. pen.

RED FAYLE LEGHORNS—George E. Howell, Howells, N. Y., 1-2-3 cock, 1-2-3-4 hen, ckl., plt.

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COLUMBIAN LEGHORNS—Lew H. Bown, 1 cock, hen, 1-2 ckl., plt.

S. C. BLACK MINORCAS—Elmer Roll, Depew, N. Y., 1 cock; Fred W. Carter, Depew, N. Y., 2-3 cock, 1-5 hen, 1-2 ckl.; Poland Poultry Yard, Buffalo, N. Y., 4 cock, 2-3 hen, 3 ckl., 1-2 plt., 1 old pen; P. J. Doher, Spartansburg, Pa., 4 hen; George L. Sherman, E. Aurora, N. Y., 4 ckl., 3 plt.; A. J. & Mrs. A. J. Gardiner, Fredonia, N. Y., 1 young pen.

R. C. BLACK MINORCAS—J. F. Beswick, Berea, O., 1 ckl., plt.

S. C. WHITE MINORCAS—Frank E. Derick, Bath, N. Y., 1 cock, hen, 1-2 ckl., 2-3 plt., 1 old pen; A. J. & Mrs. A. J. Gardiner, 2 cock, hen, 3 ckl., 1 plt.; George L. Sherman, 2 young pen; Pollands Poultry Yards, 1 young pen.

R. C. WHITE MINORCAS—Chas. D. Greenlee, Buffalo, N. Y., 1 cock, young pen, 1-3 hen, 2 ckl., 1-2 plt.; Basil D. Miller, Peterboro, N. Y., 2-3-4 cock, 2-4-5 hen, 1-3-4-5 ckl., 3-4-5 plt.

S. C. BLUE ANDALUSIANS—V. H. Council, Warranton, Va., 1 cock, ckl., young pen, 3-4 hen, 1-2 plt.; E. D. Bird, Greenwich, Conn., 2-4-5 cock, 1 hen, 5 ckl., 4 plt., 2 old pen, young pen; W. T. Naylor, Painesville, O., 3 cock, 3 young pen; John McKibben, Willoughby, O., 1 hen, old pen, 4 young pen; Albert Fitch, Jr., Buffalo, N. Y., 2-5 hen, 5 plt.; Shadylane Poultry Farm, Avonia, N. Y., 2 ckl., 3 plt.; F. L. Garnett, Cleveland, O., 3 ckl.; Herbert Hodgson, Albion, Ill., 4 ckl.

R. C. BLUE ANDALUSIANS—W. T. Naylor, 1 young pen.

S. C. ANCONAS—Urban Farms, 1 cock, old pen, 1-4 hen, 3 ckl., 5 plt., 2 young pen; Wm. S. Rathburn, Jamestown, N. Y., 2-3 hen; George P. Snyder, Alden, N. Y., 5 hen, 2 plt.; Marion O. Hill, Geneva, N. Y., 1 ckl., plt., young pen; U. C. Kay, Ilion, N. Y., 2 ckl.; Ben C. Ralph, Buffalo, N. Y., 3-4 plt.

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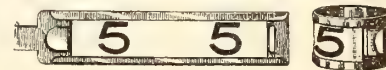
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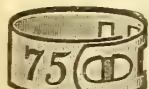
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have won at Buffalo, among other prizes 1st Cockerel for the past 4 years in competition with the best birds in America. Enough said, if you want choice birds or eggs for hatching. A. F. Almendinger, 61 Inwood Place, Buffalo, New York.

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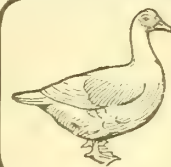
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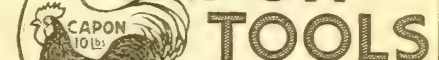
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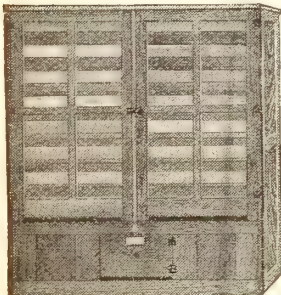
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Win at the World's Fair at San Francisco—Only two pullets entered, both were placed, in one of the largest classes shown to date, and in competition with the best breeders both east and west. My Wyandottes have won at Chicago, St. Louis, Indianapolis, Illinois State Fair, etc. for years. A grand lot of birds for sale. Send for my catalog. **F. E. SKINNER, BOX 306A, SANDWICH, ILLINOIS**

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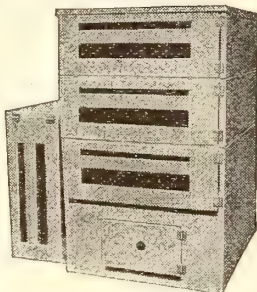
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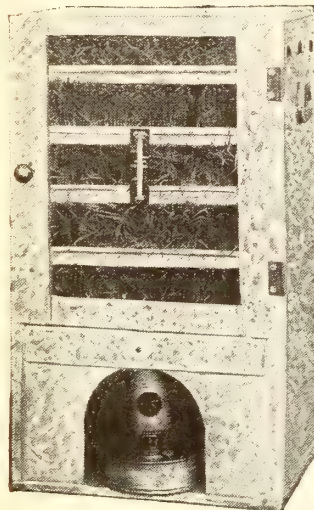
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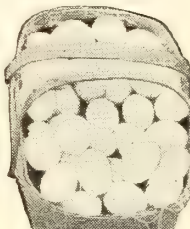
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"BERRY'S QUICK ACTION" is undoubtedly the leader. Perfected from actual experience and careful tests and comparisons on our practical poultry farm. Made of galvanized rust-proof steel. Indestructible, safe, quick, easy to operate, low in cost. You are Protected by our Absolute Ironclad Guarantee. "BERRY'S QUICK ACTION" will do what we claim or your money back. Sold on the Golden Rule Plan—A SQUARE DEAL TO ALL.

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Results of Berry's Quick
Action Sprouter

young pen; C. G. Battles, Wellington, O., 2 ckl., plt.

BUTTERCUPS—C. A. Carpenter, Ashville, N. Y., 1 cock; E. Esmay & Son, Dorlo, N. Y., 2 cock, old pen, 3 hen, 5 ckl.; Chanticleer Poultry Farm, Ulster, Pa., 3-5 cock, 5 hen, 1-3 ckl., 2-3 plt., 1 old, young pen; J. Harry Eddy, Saratoga Springs, N. Y., 4 cock, hen; Mrs. Hattie D. Reed, Marcellus, N. Y., 2 hen, young pen, 2-4 ckl., 1-5 plt.

PEKIN DUCKS—James McGuire, Batavia, N. Y., 1-3 old drake, 1-2 old duck, 1 young drake, duck; Chetola Poultry Farm, Rock Creek, O., 2 old drake; M. J. Buntin, West Falls, N. Y., 3 young drake, 2 young duck, 1 young pen; D. F. McCarty, Rock Creek, O., 2 young drake; C. E. Riley, Ebezer, N. Y., 1 old pen

ROUEN DUCKS—Elmer F. Hunt, Batavia, N. Y., 1 old drake, duck; Linstead Farm, Robinson, Md., 1 young drake; Moore Bros., Moscow, N. Y., 2 young drake, 1 young duck, pen.

WHITE MUSCOVY DUCKS—Elmer Shoulders, Newark Valley, N. Y., 1 old drake, duck; Chetola Poultry Farm, 2 old drake.

FAWN RUNNER DUCKS—John Slade, Malvern, Pa., 1-2 old drake, duck, young drake, young duck; Louis H. Perry, Clay, N. Y., 3-4 old drake, young drake, young duck, 3 old duck; W. C. Held, 1 young pen.

WHITE RUNNER DUCKS—Elmer Shoulders, 1 old drake, duck.

BUFF ORPINGTON DUCKS—Chetola Poultry Farm, 1 old drake; M. J. Buntin, 2 old drake, 3 old duck.

**AWARDS AT PITTSBURG KANSAS SHOW
—INTERSTATE POULTRY ASSOCIATION, D. J. MACKEY, SECRETARY.**

BARRED ROCKS—W. E. Tanner, Pittsburg, 1 cock, pen, 2-3 hen, 3-4-5 plt.; E. L. Stewart, Wichita, 2 cock, pen, 1-2 plt.; Mrs. M. F. Carlson, Cherokee, 1-2 ckl., 1 hen; Mrs. James Shell 5 hen, 3 ckl.; P. J. Atkins, Pittsburg, 1-2-5 ckl.; Fred Coulter, Pittsburg, 3 pen; L. H. Thurston, Girard, 4 ckl., pen.

WHITE ROCKS—Mrs. J. J. Adams, Pittsburg, 1-3 cock, 3-4 plt.; W. K. Trumbo, Roseland, 1-2-3 hen, 1-2 ckl., plt., 1 pen.

BUFF ROCKS—W. A. Wright, Arma, 1 cock, pen, 1-2-3 hen, 1-4-5 plt.; E. J. Downing, Pittsburg, 1-2 ckl., 2-3 plt.

SILVER WYANDOTTES—John W. Fuhrer, Pittsburg, 1 hen, pen, 1-2-3 ckl., 1-2-3-4 plt.

WHITE WYANDOTTES—Chas. Jodd, Girard, 1 cock, 1-2-3-4 hen, 2-3-4 ckl., 1-2-4-5 plt., 1-2 pen; Randolph Lewis, Pittsburg, 2 cock, 3 plt.; Greef & Miller, Pittsburg, 1 ckl., 5 hen, 3 pen.

GOLDEN WYANDOTTES—H. R. Brown, 1 cock pen; D. F. Crowell, 2 cock, hen.

RHODE ISLAND REDS—L. D. Bailey, Girard, 1 ckl., 3-5 plt.; K. I. Snyder, Pittsburg, 2 ckl., 1-2 plt.

BLACK LANGSHANS—J. W. Sparks, Pittsburg, 1-2-3 hen, plt., 1-2 ckl., 1 pen; Mrs. Estella Maddox, Mulberry, 3-4 ckl., 4-5 plt.

S. C. BROWN LEGHORNS—J. H. Neeley, Nashville, Mo., 1 cock, hen, 1-2 plt.; S. J. Emery, Girard, 1-2-3-5 hen, 3 ckl., 2 pen.

WHITE LEGHORNS—J. R. Stalling, Oswego, 1 ckl., 5 ckl.; Bert C. Whitchurch, Girard, 1-4 hen; B. W. Scheib, Pittsburg, 2-3 hen, 4 ckl., 1-2-3-5 plt., 1-2 pen; R. W. Harris, Kansas City, 2 ckl.; Randolph Lewis, 1 ckl., 2 pen; James Rodgers, Pittsburg, 3 ckl.

BLUE ANDALUSIANS—Mrs. M. Graham, Pittsburg, 1 cock, 1-2-3 hen.

ANCONAS—D. J. Mackey, Pittsburg, 1-3 cock, 1-2-3-4-5 hen, 1 pen; Chas. Smith-peters, Arma, 2 cock; Grover Hill, Pittsburg, 2 ckl., pen, 1-2-3-4-5 plt.

BUFF ORPINGTONS—Mrs. M. F. Carlson, 1 cock, pen, 1-2-3 hen, 1-2 ckl., 3 plt.; D. J. Mackey, 2 cock; Mrs. A. T. Cowden, Pittsburg, 3-4 ckl., 1-2-4-5 plt., 2 pen.

WHITE ORPINGTONS—Mrs. M. F. Carlson, 1 cock, ckl., 3 hen; E. E. Decker, Girard, 2-4 ckl., plt., 2 pen; A. Miller, Pittsburg, 1-5 hen, 3 ckl., 1-3-5 plt., 1 pen.

BUFF COCHIN BANTAMS—McClaskey Bros., Girard, 1 ckl., plt.

S. S. HAMBURG—W. S. Messenger, Pittsburg, 1 cock, 1-2-3 hen.

DARK CORNISH—Mrs. J. B. Webb, 1 cock, pen, 1-2-3-4 plt.

BLACK MINORCAS—T. Grover Hill, Pittsburg, 1 ckl., 1-2 hen, 1-3 plt.

PENCILED RUNNER DUCKS—Fred Coulter, 1 yng. drake, 1-2 yng. duck; D. J. Mackey, 1-2 old drake, 1 old duck.

WHITE CHINESE GEESE—W. P. Garberick, Pittsburg, 1 gander, goose.

TOULOUSE GEESE—Mrs. Hulda Kearns, Girard, 1 gander, goose; Mrs. Geo. Moren, Pittsburg, 2 gander, 2-3 goose.

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CHICAGO COLISEUM SHOW.

(Continued from Page 138).

fair eye. 3d cock, Ed. W. Mahood; fair type and color, fine eye and fair comb.

First hen, Schenley Heights Poultry Farm; grand type and color thruout, good comb and eye. 2d hen, F. E. Harrison; bird of good color and fair type, trifle low on legs, fair comb and eye. 3d hen, Ed. W. Mahood; fair type, grand color thruout, strong eye and fair comb.

First cockerel, Schenley Heights Poultry Farm; excellent color thruout, good type, slightly deficient in breast, extra fine eye and fair comb. 2d cockerel, F. E. Harrison; good color and type thruout, fair comb and eye. 3d cockerel, Ed. W. Mahood; good type and color thruout, good eye and fair comb; not shown in best of condition.

First pullet, F. E. Harrison; grand type and color thruout, good comb and eye, outstanding in the class. 2d pullet, Schenley Heights Poultry Farm; good type, fair comb and eye, not as good color as 1st bird. 3d pullet, Chanticleer Farm; good color and fair type, not shown in best of condition.

First old pen, Ed. W. Mahood; contains cock of wonderful quality, both in color and type; hens of fine type and rich red color thruout; male bird not fully finished. 2d old pen, A. A. Carver; not as evenly matched as 1st pen, cock bird being a shade or two darker than females, fine type thruout. 3d old pen, F. E. Harrison; contains cock of very good type and color; females of good size and type and even color thruout.

First young pen, A. A. Carver; contains cockerel of wonderful type and excellent color thruout, being one shade of red from tip to toe; females show excellent type and even shade of red thruout. 2d young pen, F. E. Harrison; cockerel of this pen of good type, not as good in color as 1st pen cockerel; females of very good type and rich red color thruout. 3d young pen, Winnebago Poultry Yards; cockerel and pullets in this pen are not the equal of 1st and 2d pens in either type or color, altho showing unusual quality.

R. C. RHODE ISLAND REDS.

First cock, Longfield Poultry Farm; grand type and color, extra fine eye and fair comb. 2d cock, Schenley Heights Poultry Farm; good color and fair type, fair eye and poor comb. 3d cock, W. L. McMillan; good color, losing to 1st and 2d in type, fair head points.

First hen, W. L. McMillan; extra good in type and color, fine eye, fair comb. 2d hen, Longfield Poultry Farm; good color thruout, not quite as typical in shape as 1st bird, good eye and fair comb. 3d hen, Schenley Heights Poultry Farm; good type, losing to 1st and 2d in color, fair head points.

First cockerel, Schenley Heights Poultry Farm; grand color, good type, fair eye and comb. 2d cockerel, H. E. Simon; rather small, good color and fair head points. 3d cockerel, Mrs. J. L. Davis; good color, losing to 1st and 2d in type, not fully matured, tail carriage a little high.

First pullet, Michael Coffey; grand color and fair type, good comb and eye. 2d pullet, Longfield Poultry Farm; good color and type, fair comb, light eye, not fully finished. 3d pullet, H. E. Simon; fine type, losing to 1st and 2d in color, good comb and fair eye.

First old pen, Longfield Poultry Farm; contains cock of wonderful type and

excellent color, mated to four hens of true type and brilliant red in all sections. 2d old pen, F. C. and Mrs. Krueger; cock of very rich red in all sections, not as good in type as bird in 1st

pen; females of good type and color, not as evenly matched as females of 1st pen. 3d old pen, Schenley Heights Poultry Farm; contains cock of very good type and color, mated to four fe-

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When incubators were new I built them so good that

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The fourth year he carried over 550 layers. The market eggs were all sold through a commission house. The yearlings brought 75¢ each. A few hatching eggs were sold. The total receipts were \$2,793.07. The total expenditure for the year was \$1,228.18. The net profit on the investment and labor \$1,569.89.

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The New Buffalo Coal-Heated Brooder Stove and Hover, Price \$15, will brood from 100 to 1,000 chicks for less money than lamp-heated hovers. The control on this stove is perfect, and it requires very little attention.

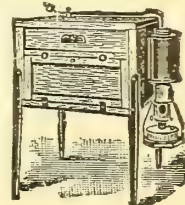
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males of good type and color; females not as well matched as females in 1st pen.

First young pen, Longfield Poultry Farm; cockerel in this pen is a wonderful bird in both type and color; females are equally good in all sections, very evenly matched, a hard pen to beat. 2d young pen, C. E. Hubble; cockerel in this pen not as good type and color as 1st pen cockerel; females not as evenly matched. 3d young pen, F. M. Reed; cockerel of very good type, rather long in legs, not as rich in color as either 1st or 2d pen cockerels; pullets of good type, but not as good in color as 1st and 2d pen pullets.

BUCKEYES.

First cock, Elton C. Mahon; good type and color, fair comb and strong eye, not fully finished. 2d cock, H. W. & M. B. Deem; good color and fair type,



Spangled Wyandotte, a new breed exhibited at Chicago by L. Cook, Oakville, Iowa. The first prize cockerel in the above picture shows how this new breed is coming along in type and color.

strong eye, not fully finished. 3d cock, Elton C. Mahon; losing to 1st and 2d in both type and color, fair comb and light eye.

First hen, H. W. & M. B. Deem; good type and color, fair comb, rather light in eye. 2d hen, Elton C. Mahon; fair color, losing to 1st in type, not in show condition. 3d hen, Elton C. Mahon; well finished bird of fair color, not as good in shape as 1st bird.

First cockerel, Elton C. Mahon; extra good in type and color, good comb and fair eye. 2d cockerel, Elton C. Mahon; good color, losing to 1st in type, comb not as good as 1st bird. 3d cockerel, John C. Steitz; fair color, lacking in breast shape, not fully finished.

First pullet, H. E. Errett; good color and fair type, good eye and comb, shown in good condition. 2d pullet, Ernest Watson; good color and fair type, good head points, not shown in as good condition as 1st bird. 3d pullet, Elton C. Mahon; losing to 1st and 2d bird in both type and color, fair comb and eye.

First young pen, H. E. Errett; cockerel of wonderful type and rich red color thruout; pullets of good type and very evenly matched. 2d young pen, J. V. Mays; contains cockerel of very good quality, not as well finished as 1st pen cockerel, but of excellent type and

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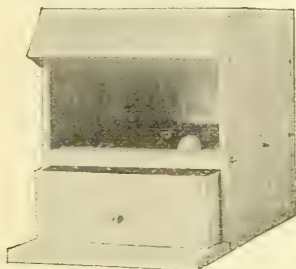
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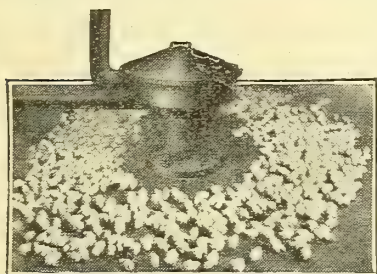
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Box 701

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color; females not as rich in color and not as good in type as 1st pen females. 3d young pen, Elton C. Mahon; male and females of this pen are not as evenly matched, nor of as good type and color as 1st and 2d pens.

LIGHT BRAHMAS.

First cock, J. W. Shaw; grand type and color thruout, good comb and eye, outstanding in the class. 2d cock, Roy R. Beck; good type, losing to 1st bird in color. 3d cock, Geo. M. Layman; fair type and color thruout, good eye and comb, shown in fine condition.

First hen, J. W. Shaw; especially fine in both type and color, good eye and comb. 2d hen, J. W. Shaw; good color, fair type, fair head points. 3d hen, Harvey C. Wood; good type, not as well marked as 1st and 2d, fair eye and comb.

First cockerel, J. W. Shaw; grand type and color thruout, good comb and eye, outstanding in class. 2d cockerel, J. W. Shaw; good type, not as well marked as 1st bird, not fully finished. 3d cockerel, Roy R. Beck; fair type and color, not shown in as good condition as 1st and 2d bird.

First pullet, J. W. Shaw; grand type and good color, fair comb and strong eye. 2d pullet, Harvey C. Wood; losing to 1st in type, fine color, good comb and fair eye. 3d pullet, J. W. Shaw; good type, losing to 1st and 2d in color, good eye and comb.

First old pen, Harvey C. Wood; contains one of the grandest cock birds seen at this show, both in type and color he is outstanding; mated to him are four wonderful females of true Brahma type, showing wonderful hackle and tail lacing. 2d old pen, Wm. T. House & Son; cock and females in pen are excellent in quality, in most classes they would easily be winners; cock bird nearly as good in type as 1st pen cock bird; females not quite as evenly matched. 3d old pen, Geo. M. Layman; contains cock bird and four females of very good type and color, very close third.

First young pen, Harvey C. Wood; cockerel of this pen shows remarkable type and wonderful color in all sections; to him are mated four females, fine in shape and color. 2d young pen, J. H. Fowlie; cockerel of this pen is of fine type and color, not being quite as well marked as 1st pen cockerel; females of very good color and fine shape, evenly matched. 3d young pen, Mrs. W. G. Robinson; cockerel in pen is an excellent specimen in both shape and color; females of good type and color, in ordinary competition this pen would be wearing the blue.

DARK BRAHMAS.

First cock, Shoemaker Poultry Farm; fair type and color, light eye. 2d cock, Bachelor Button Kennels; losing to 1st in both type and color, good head points thruout.

First hen, Shoemaker Poultry Farm; good type and color thruout. 2d hen, Bachelor Button Kennels; good color and fair type. 3d hen, Bachelor Button Kennels; losing to 1st and 2d in both type and color.

First cockerel, Shoemaker Poultry Farm; good type, fair color, good head points thruout. 2d cockerel, Shoemaker Poultry Farm; fair color and type little gray in fluff.

First pullet, Shoemaker Poultry Farm; fair type and color. 2d pullet, Shoemaker Poultry Farm; losing to 1st in both type and color, rather under-size.

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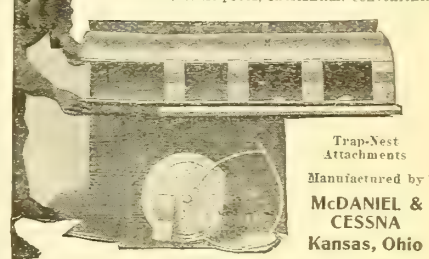
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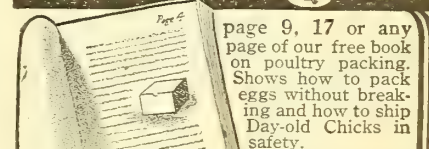
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See book offer on page 8

BUFF COCHINS.

First cock, Shoemaker Poultry Farm; good color and fair type, good head points.

First hen, Shoemaker Poultry Farm; rather small, of good type and fair color, being a trifle uneven.

PARTRIDGE COCHENS.

First cockerel, Shoemaker Poultry Farm; fair color and type, being rather long on legs.

First pullet, Shoemaker Poultry Farm; good color and fair type, being rather small.

S. C. BROWN LEGHORNS.

First cock, H. F. Becker; fine color and good type, rather heavy comb, good in lobe. 2d cock, Herman F. Rikhoff; very good color with good head points, losing to 1st in type. 3d cock, Rosemont Farm; good color, rather coarse in head, not as good Leghorn type as 1st or 2d birds.

First hen, Roy J. Belsley; unusual type and color, together with head points. 2d hen, Herman F. Rikhoff; very good color not as good in type and comb as 1st hen. 3d hen, Herman F. Rikhoff; fairly good type, losing to 2d on color.

First cockerel, Herman F. Rikhoff; very fine type, together with good lobe and fair comb, very good color. 2d cockerel, H. F. Becker; very good color, good lobe, fair comb, losing to 1st bird in type. 3d cockerel, Rosemont Farm; fair color and good type, have a very good comb and fair lobes, legs rather short.

First pullet, Herman F. Rikhoff; wonderful color and good type. 2d pullet, Roy J. Belsley; very good type, not as good in color as 1st bird. 3d pullet, Herman F. Rikhoff; losing to 1st and 2d in both color and type.

First cockerel-bred pullet, Wm. Bell; very good bird in both type and color.

First pullet-bred cock, Wm. Bell; good color and fair type.

First pullet-bred cockerel, Herman F. Rikhoff; of good color and excellent type, fine head points.

First exhibition pen, Herman F. Rikhoff; of good type and color thruout, evenly mated. 2d exhibition pen, H. F. Becker; of average type, losing to 1st in color; good male.

R. C. BROWN LEGHORNS.

First cock, Ralph W. Strong; good color and fair type, comb rather large and coarse, tail carriage too sharp an angle. 2d cock, Elwood I. Shawger; fairly good type, losing to 1st on color.

First cockerel, Elwood I. Shawger; very good bird, unusual type and color, good head points, good lobe. 2d cockerel, Elwood I. Shawger; good color, not as good in type or comb. 3d cockerel, Ralph W. Strong; losing to 1st and 2d in both type and color.

First pullet, Ralph W. Strong; very good type and excellent color.

First cockerel-bred pen, Elwood I. Shawger; fair type and color thruout.

SUMATRAS.

First cock, Shoemaker Poultry Farm; fair type thruout, not in best of condition.

First hen, Shoemaker Poultry Farm; good type and color, well finished. 2d hen, Shoemaker Poultry Farm; fair type, not as well finished as 1st bird.

First cockerel, Shoemaker Poultry Farm; good type and color, not fully finished. 2d cockerel, Shoemaker Poultry Farm; fair in type and head points, finished better than 1st bird.

First pullet, Shoemaker Poultry Farm; good type and color, poor comb. 2d pullet, Shoemaker Poultry Farm; much the same type as 1st bird, not as well developed.

First young pen, Shoemaker Poultry Farm; good type and color.

WHITE FACED BLACK SPANISH.

First cock, Shoemaker Poultry Farm; good type and color, tail carriage trifle high.

First hen, Shoemaker Poultry Farm; well finished bird, showing good type thruout.

WHITE CRESTED BLACK POLISH.

First cock, Shoemaker Poultry Farm; fair type and color, tail carriage a trifle high.

First, 2d and 3d hens, Shoemaker Poultry Farm; much the same type and station thruout, very little difference between them.

SPANGLED WYANDOTTES.

First cock, 1st hen, 1st cockerel and 1st pullet, L. Cook; all the birds showed good color and fair type.

SILVER SPANGLED HAMBURG.

First cock, Shoemaker Poultry Farm; fair type and color, tail carriage a trifle high.

First hen, Shoemaker Poultry Farm; fair color and good type.

HOUDANS.

First cock, Chas. A. Steward; good type and station thruout specially fine crest. 2d cock, Frank L. Grott; fair type and color, not as well finished as 1st bird.

First hen, Harry A. Young; good type and color, fair crest. 2d hen, Harry A. Young; good color, losing to 1st in type, fine crest. 3d hen, Chas. A. Steward; fair type well mottled, trifle small.

First cockerel, Chas. A. Steward; good type, good crest and color. 2d cockerel, Chas. A. Steward; losing to 1st in both color and shape, not as well finished in tail.

First pullet, Chas. A. Steward; fine in shape and color, easy winner in her class. 2d pullet, Frank L. Grott; fair color, not as good in type as 1st bird. 3d pullet, Chas. A. Steward; not as good in either type or color as 1st or 2d birds.

First old pen, Chas. A. Steward; good type and color, extra fine male. 1st young pen, Chas. A. Steward; much the same type as old pen, good color.

WHITE HOUDANS.

First cock, Francis K. Cook; fair type and color. 1st, 2d and 3d hens, Edgar F. Alden; all of good type and fair color; 1st and 2d having better crests than 3d bird. 1st cockerel, Edgar F. Alden; fair type and good color. 1st, 2d and 3d pullet, Francis K. Cook; much of the same type thruout, 1st and 2d birds winning over 3d on crests and color.

First, 2d and 3d old pens, M. L. Starks; especially good type and color thruout, well mated.

First and 2d young pens, M. L. Starks; good type and color, 2d pen not as well finished as 1st pen.

SALMON FAVEROLLES.

First cock, Chas. A. Bartholomew; fair type and color, not fully finished in tail. 1st hen, Chas. A. Bartholomew; good color and fair type.

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C. C. NYE

Box A

HARRISTOWN, ILLINOIS

DARK CORNISH.

First cock, R. E. Curtiss; fine color, shown in excellent condition. 2d cock, E. A. Tomlinson; larger boned bird, if in better condition would have probably gone higher. 3d cock, Dawdy & Dawdy; good size, losing in color and shape of tail.

First hen, Floyd P. Schuyler; fine type and color, shown in excellent condition. 2d hen, T. Ellis Harvey; good size not as well penciled as 1st bird. 3d hen, T. Ellis Harvey; good type and color, deficient in shape of tail.

First cockerel, Floyd P. Schuyler; easy winner, excellent in both type and color. 2d cockerel, W. B. Grinyer; fair type and color. 3d cockerel, T. Ellis Harvey; not as good in comb and tail shape, not in show condition.

First pullet, Dawdy & Dawdy; fine color and type thruout. 2d pullet, Floyd P. Schuyler; fair color and type thruout, close to 1st. 3d pullet, E. A. Tomlinson; much the same type and penciling as 1st and 2d, not fully matured.

First old pen, Shoemaker Poultry Farm; fair color and type, well matched pen thruout.

WHITE CORNISH.

First cock, 1st hen, 1st cockerel, 1st pullet, W. B. Grinyer; birds of fair type and color.

S. C. ANCONAS.

First cock, Cora B. Garbutt; fine type and color thruout, well shown.

First hen, Cora B. Garbutt; extra good in both type and color, fine head. 2d hen, Diamond Poultry Farm; good type losing to 1st in color. 3d hen, Diamond Poultry Farm; losing to 1st and 2d in both color and type, not as good in head points.

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RELIABLE POULTRY JOURNAL
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First cockerel, Cora B. Garbutt; good color and type thruout, good comb and eye. 2d cockerel, Edwin J. Seal; losing to 1st in both type and color, not as good in head points.

First pullet, Edwin J. Seal; extra good in both type and color, in fine condition. 2d pullet, H. J. Palmer; excellent type, not as good color as 1st bird. 3d pullet, Cora B. Garbutt; extra fine colored bird, losing to 1st in type.

First old pen, Cora B. Garbutt; extra fine male bird both in type and color; females well mated.

First young pen, Cora B. Garbutt; good type and color thruout, extra fine male, good type and fine head.

R. C. ANCONAS.

First hen, Harry A. Brodbeck; good type and fair color. 1st cockerel, Harry A. Brodbeck; good color and fair type, poor in comb. 1st and 2d pullet, Harry A. Brodbeck; both birds of good type and color, type in favor of 1st bird.

BLUE ANDALUSIANS.

First cock, Horace G. Murphy; fair type and color, fair comb, rather large. 2d cock, M. R. Knox; good color, losing to 1st in type. 3d cock, Shoemaker Poultry Farm; fair color, not as good shape as 1st and 2d birds.

First hen, Shoemaker Poultry Farm; good type and color, well placed. 2d hen, S. W. Kinney; fair type lacking in color to 1st bird. 3d hen, Shoemaker Poultry Farm; losing to 1st and 2d in both color and type.

First cockerel, Shoemaker Poultry Farm; good type and color, fine lobe, fair comb. 2d cockerel, S. W. Kinney; fair color not as good in head points as 1st bird. 3d cockerel, M. R. Knox; weak in both color and type, short in back, tail carriage too high.

First pullet, M. R. Knox; good type and color. 2d pullet, S. W. Kinney; good in color and type, not fully finished. 3d pullet, Shoemaker Poultry Farm; fair type not as good in color, undeveloped.

S. C. BUFF ORPINGTONS.

First cock, J. W. Curzan; very unusual Orpington type, rich golden buff in color thruout. 2d cock, E. L. Bemis; similar to first bird in color but losing to first on type. 3d cock, F. A. Poertner; fair type and color, rather pinched in breast, long in back.

First hen, Rawnsley-Shields Poultry Farm; of good type and color, showing some traces of shafting. 2d hen, G. Z. Weible; good type and color, being a close second. 3d hen, E. M. Long; losing to first and second in both type and color, being rather uneven.

First cockerel, Rawnsley-Shields Poultry Farm; very good type and rich golden buff color. 2d cockerel, Jessie F. Gordon; good type and color, not finished in hackle or tail. 3d cockerel, Harry J. Davison; losing to first and second in both type and color.

First pullet, Rawnsley-Shields Poultry Farm; good type and color. 2d pullet, A. C. Williams; very good type and color, giving first bird a close race. 3d pullet, Jessie F. Gordon; very good type and color, showing some trace of shafting.

First old pen, Rawnsley-Shields Poultry Farm; headed by male bird of rich golden buff, good head points and depth of body, lacking in breast shape, mated

to four large, even colored hens of good Orpington type; females rather heavy in comb. 2nd old pen, A. C. Williams; headed by excellent cock bird, good type thruout, fine head points, plumage rich golden buff shade thruout, mated to four hens of true Orpington type and even buff color, very close second. 3rd old pen, Rawnsley-Shields Poultry Farm; cock bird not as good in type and color as 1st and 2nd pen cock birds, fair head, not finished in hackle and tail, lacking in breast shape, good even buff color in all sections; females not as large as those of 1st and 2nd pens, not as even in color, fairly good in type.

First young pen, Rawnsley-Shields Poultry Farm; cockerel of good even buff color, showing a little bronze in tail, trifle dark in wing, comb trifle large; females of Orpington type, fair color. 2nd young pen, Rawnsley-Shields Poultry Farm; cockerel fairly good type, not quite filled out in breast, tail trifle pinched, comb fair, color very rich golden buff, some peppering in tail; females fairly good type, not as evenly mated in color as females of first pen.

3rd young pen, A. C. Williams; cockerel of even shade of buff, somewhat lighter in color than male of 1st and 2nd pens, absolutely solid thruout, true Orpington type, trifle flat in breast shape, good head points thruout; females good Orpington type, evenly matched in color of a lighter shade than females of 1st and 2nd pens.

S. C. WHITE ORPINGTONS.

First cock, Aldrich Poultry Farm; wonderful type and fine color, an easy winner in his class, trifle unfinished in tail. 2nd cock, Woolery Farm; good type and color, not as good in body shape as first bird, shows trace of brassiness. 3rd cock, F. M. Gensch; good type and color, giving second bird a close race.

First hen, Woolery Farm; wonderful color and fine type, good head points. 2nd hen, Aldrich Poultry Farm; good color and fine type, not as good in head points as first bird. 3rd hen, Rose City Poultry Farm; not as good in type or color as first and second birds.

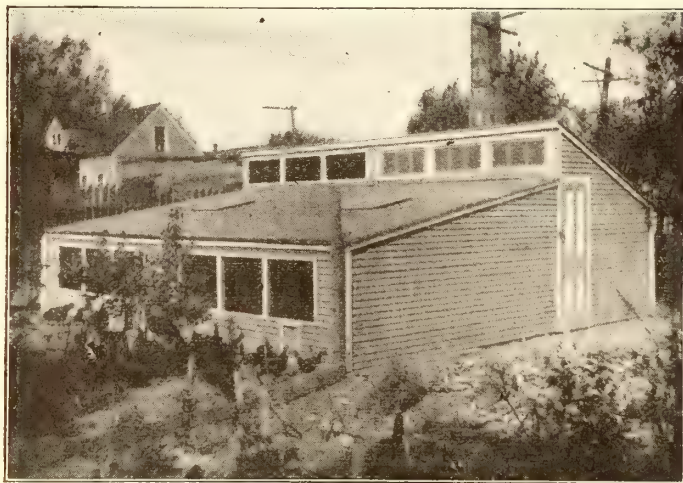
First cockerel, Aldrich Poultry Farm; unusual type and color, shows promise of making wonderful cock bird; 2nd cockerel, F. M. Gensch; fine type, losing to first bird in color; 3rd cockerel, Woolery Farm; very good type and color, not fully finished.

First pullet, Brackenfield Farms; very unusual type and good color. 2nd pullet, Rogers Poultry Farm; good type and color, not in as good show condition as first bird. 3rd pullet, F. M. Gensch; losing to first and second in both type and color.

First old pen, F. M. Gensch; cock bird fine depth of body, comb and head points good, tail a trifle high, snow white in color; hens very fine type, evenly matched, especially fine pen thruout. 2nd old pen, Rogers Poultry Farm, cock bird good type, comb rather coarse, not as good in color as first pen cock bird; females fine type and color, not in as good condition as females of first pen. 3rd old pen, Edmond J. Harbin;

cock bird of fairly good type and color, not as large as cock birds of 1st and 2nd pens; hens good type and color, more loosely feathered than females of 1st and 2nd pens.

First young pen, Woolery Farms; male of grand type thruout, trifle small; females excellent in type and color, extra fine pen; 2nd young pen, Aldrich Poultry Farm; male of extra fine type and color; females well matched of good Orpington type. 3rd young pen, Woolery Farms; good male in all sections; females good type and color, well matured, much the same as those of first pen.



One of the many types of Perfection Poultry houses manufactured by Perfection Portable Poultry House Co., 4040 N. California Ave., Chicago.

S. C. BLACK ORPINGTONS.

First cock, Brackenfield Farm; grand type thruout, excellent head points. 2d cock, Brackenfield Farm; good type, slightly deficient in breast, not quite as good in comb. 3d cock, Brackenfield Farm; similar to 1st and 2d, not quite as good in head.

First hen, Mrs. Wm. F. Fry; good type thruout, comb trifle too large. 2d hen, Robt. H. Wallace; not quite as good in type as 1st bird, poor comb. 3d hen, Robt. H. Wallace; fair type in all sections, close to second in every respect.

First cockerel, Robt. B. Gillars; grand bird in every respect, easy winner in his class. 2d cockerel, Brackenfield Farm; good type thruout, good head points, trifle high on legs. 3d cockerel, Brackenfield Farm; fair type, a trifle short in back, not in as good condition as 1st bird.

First pullet, Brackenfield Farm; fine type, good in all sections, easy winner in her class. 2d pullet, Brackenfield Farm; not quite as good in type or as well shown as 1st bird. 3d pullet, exhibited by Robt. H. Wallace; losing to 1st and 2d on both type and head points, trifle too long in back.

First old pen, Robt. H. Wallace; male of extra good Orpington type and color, typical Orpington in every way; females well matched, especially fine type. 2d

old pen, Sylvester Thos. McCabe; fair type and color thruout.

BLUE ORPINGTONS.

First cock, Rogers Poultry Farm; type and fair color, head points good thruout. 2d cock, Fred Rau; good stationed bird, losing to 1st in both color and head points, not as well finished. 3d cock, Robt. B. Gillars; not as good type as 1st and 2d, rather undersize, poor comb.

First hen, W. A. Stoltz; good type and color, good comb. 2d hen, Rogers Poultry Farm; trifle larger than 1st bird, not quite as good in type, extra good comb. 3d hen, Rogers Poultry Farm; considerable darker than 1st or

color, losing to 1st and 2d in head points.

First hen, Chas. G. Pape; good type and color, good head. 2d hen, Frank W. Young; good in type and color, losing to 1st in head points. 3d hen, Chas. G. Pape; not as well stationed bird as 1st and 2d, fair comb, good eye.

First cockerel, Frank W. Young; excellent color and shape, fine length of back, good head. 2d cockerel, Chas. G. Pape; fair type and color, not as good comb as 1st bird. 3d cockerel, Mrs. Tilla E. Watts; larger bird than 2d, good head.

First pullet, Chas. G. Pape; fine type and color thruout, excellent head, easy winner in her class. 2d pullet, Hibler & Hoover; fair type not as good in color as 1st bird, good head points thruout. 3d pullet, Chas. G. Pape; fair in type and color, not quite as large as 1st and 2d birds, fair comb.

First old pen, exhibited by Chas. G. Pape; fine type and color thruout, extra fine male bird, females well matched. 2d old pen, C. T. Schopes; birds of fair type and color thruout, good male bird. 3d old pen, Mrs. Tilla E. Watts; not as good in type or color as 1st and 2d pens.

First young pen, Chas. G. Pape; grand type and color thruout; extra fine male bird; females well mated.

S. C. WHITE MINORCAS.

First cock, Harvey J. Tietz; good type and color, not fully finished in tail. 2d cock, Thos. Brodgen; fair type and head points, not in as good condition as 1st bird. 3d cock, Thos. Brodgen; type and color, not as good in head points as 1st and 2d birds.

First hen, Thos. Brodgen; excellent type and color, easy winner in her class. 2d hen, T. D. Brown; good color, lacking in type to 1st bird. 3d hen, Thos. Brodgen; fair in type and color, rather poor comb.

First cockerel, T. D. Brown; good type and color, fine head, not fully finished. 2d cockerel, Shoemaker Poultry Farm; good color and fair type, not fully developed. 3d cockerel, H. J. Tietz; fair color, losing in type.

First pullet, T. D. Brown; good color and type, good head and comb. 2d pullet, Thos. Brodgen; good color and fair type and head points. 3d pullet, T. D. Brown; good color, lacking in type to 1st and 2d birds.

R. C. WHITE MINORCAS.

First cock, Thos. Brodgen; good color and excellent type, fine eye, fair comb. 2d cock, Harrison H. Ruth; poor comb, fair eye, losing to 1st in both type and color.

First hen, Thos. Brodgen; good color and type, not quite finished. 2d hen, Thos. Brodgen; good type, lacking in color to 1st hen. 3d hen, Harrison H. Ruth; poor in comb, not shown in best of condition.

First cockerel, E. Fetzter; good color and fair type, good eye, fair comb. 2d cockerel, E. Fetzter; good color, losing to 1st in type and head points. 3d cockerel, Thos. Brodgen; well stationed bird, not as good in type as 1st and 2d winners.

First pullet, E. Fetzter; very good type and color, fair comb, not in first-class show condition. 2d pullet, E. Fetzter; fair type and color, tail plumage out of condition, a close second. 3d pullet, E. Fetzter; not as good as 1st or 2d in either color or type.

Chippewa Poultry Association

Chippewa Falls, Wisconsin, Annual Show, Jan. 25-30, 1916
Best show in Northern Wisconsin. Large cash specials, silver cups and other valuable specials.
Score card judging. Write for premium list.

R. R. Woodruff, Sec'y, Chippewa Falls, Wis.

PARTRIDGE ORPINGTONS.

First cock, Blue Ridge Farm; fair color and type, light eye.

First young pen, E. F. Schmidt; fair type and color thruout.

BUFF MINORCAS.

First cock, E. F. Schmidt; fair type and color. 1st hen, E. F. Schmidt; fine even shade of buff, good type. 1st cockerel, E. F. Schmidt; good color, fair type, not shown in best of condition. 1st pullet, E. F. Schmidt; good color, not in show condition.

S. C. BLACK MINORCAS.

First cock, Chas. G. Pape; fine stationed bird thruout, well placed. 2d cock, Chas. G. Pape; some larger than 1st bird, too broad across the back. 3d cock, John L. Brown; good in type and

RED SUSSEX.

First cock, Red Sussex Farms; excellent type and color, winning color special. 2d cock, Houston & Hofius; not quite as good in color, good in back and tail shape, little weak in breast shape. 3d cock, A. & E. Tarbox; good in color, excellent in type, not as good in wing color.

First hen, Houston & Hofius; fine in back and tail shape, excellent in color. 2d hen, A. A. Carver; fine in type, good in color, fine in head points. 3d hen, Red Sussex Farms; excellent bird in color, fairly good in type, not quite as good in tail shape.

First cockerel, Houston & Hofius; very fine bird in color and type, good head points, excellent in carriage of tail. 2d cockerel, Red Sussex Farms; excellent bird in color and type, fine in head points, not fully matured. 3d cockerel, A. & E. Tarbox; fine in color and type, good in back and tail carriage, but not finished.

First pullet, Houston & Hofius; very fine bird in back and tail carriage, good head points, excellent in color. 2d pullet, Red Sussex Farms; excellent in color and type, fine in head points, not quite as large. 3d pullet, Red Sussex Farms; excellent in type, shape of back and tail carriage, not quite as good color.

First old pen, Red Sussex Farms; pen well matched, excellent in color and type; male bird extra fine. 2d old pen, Houston & Hofius; male bird fine in type and color, hens not as even in color but fairly good. 3d old pen, A. A. Carver; a well-matched pen with a good male, but hens not as good in color.

First young pen, A. A. Carver; a well-matched pen of excellent color; male fine in color, good in back and tail shape, little high on legs. 2d young pen, Houston & Hofius; a very fine male; females not as good in color, not quite as good in size. 3d young pen, Red Sussex Farms; very fine pen in color and type, but unfinished.

SPECKLED SUSSEX.

First cock, A. C. Williams; excellent color, fine in ticking of neck and saddle. Fine in breast color. 2d cock, Rawnsley-Shields Poultry Farm; good type, extra fine in color, good in head points, fine in tail carriage. 3d cock, A. & E. Tarbox; good in back, tail shape, good in breast shape, not quite as good in color.

First hen, A. C. Williams; fine hen of excellent type, good in color, fine in back shape and carriage of tail. 2d hen, Rawnsley-Shields Poultry Farm; fine type, extra good in back and breast

color, head points good. 3d hen, Red Sussex Farms; excellent color, good type, not quite finished in tail.

First cockerel, Rawnsley-Shields Poultry Farm; this cockerel is a wonder in type and color, the best male ever shown. 2d cockerel, Rawnsley-Shields Poultry Farm; a bird of good type, fairly good in color, not as good size as first. 3d cockerel, T. J. Rountree; good back and tail shape, good in head points, not as good in color.

First pullet, Rawnsley-Shields Poultry Farm; bird of good size, excellent in type, fine in back and tail carriage, color good. 2d pullet, Rawnsley-Shields Poultry Farm; not quite as large but of fine type, back and tail carriage, color excellent. 3d pullet, T. J. Rountree; fairly good in color, good in back and tail shape, bird not quite finished.

First old pen, Rawnsley-Shields Poultry Farm; pen is well matched with an excellent male of fine color and type. 2d old pen, A. C. Williams; very fine male of good type and color; females not quite as evenly matched. 3d old pen, Red Sussex Farms; females very fine in color and type, well matched but not as good in male.

First young pen, Red Sussex Farms; a very even and well-balanced pen; pullets of fine color and type, with an extra fine male and color and back and tail shape, head points fine. 2d young pen, Rawnsley-Shields Poultry Farm; a very fine, even matched pen of females and very fine male, not quite as good as male in 1st pen. 3d young pen, A. C. Williams; male of good color and type; females well matched, but not quite as good in color.

LIGHT SUSSEX.

First cock, Houston & Hofius; light, fine bird of excellent type and color. 2d cock, Houston & Hofius; fine in back and tail carriage, not quite as good size as 1st.

First hen, Houston & Hofius; large, type hen, fine in breast shape, good in neck and tail markings. 2d hen, Houston & Hofius; very fine hen and good type, not as good in neck and tail color.

First cockerel, Houston & Hofius; fine in back and tail markings, good in breast shape, good in head points and color of neck. 2d cockerel, Houston & Hofius; not quite as well finished, with a fine color and type.

First pullet, Houston & Hofius; very fine pullet of excellent type and color, very fine in neck and tail markings. 2d pullet, Houston & Hofius; good in type and color, not quite as good in neck and tail.

First old pen, Houston & Hofius; a

well-matched pen of good color and type, females having extra good color in necks.

First young pen, Houston & Hofius; fine evenly matched pen, headed by male with exceptionally good color in neck and tail.

BUTTERCUPS.

First cock, Dr. M. A. Hansen; generally good bird thruout. 1st hen, Dr. M. A. Hansen; good type and color, especially good head. 2d hen, H. W. Court; fair color and type, not finished. 3d hen, H. W. Court; better condition than 1st, long back, well spread tail.

First cockerel, W. C. Brunig; good type and color, shape and color special. 2d cockerel, T. J. Eulette; good type and color, fine head. 3d cockerel, H. W. Court; good color, losing in shape to 1st and 2d.

First pullet, A. L. Malsch; good in type and color. 2d pullet, Wm. Freise; fair type and color, good head. 3d pullet, H. W. Court; good color and type thruout.

BUFF LEGHORNS.

First cock, Dr. L. E. Heasley; especially good head points, pleasing buff color, good saddle, color special. 2d cock, Dr. L. E. Heasley; very large bird, good carriage, strong even golden buff in color. 3d cock, H. Lester Farnum; good type, heavy color, trifle short on legs.

First hen, Dr. L. E. Heasley; especially fine hen, good color and type, shape and color special, trifle short on legs. 2d hen, F. Purdy; long back, lighter shade of buff than 1st, good type. 3d hen, H. Lester Farnum; fair color, not as good type as 1st and 2d hens, fine head points.

First cockerel, Dr. L. E. Heasley; even shade of buff thruout, good type, low tail, fair comb, especially good in leg color. 2d cockerel, Dr. L. E. Heasley; fair color, extra good head points, not quite finished. 3d cockerel, H. Lester Farnum; heavy color, fair type thruout.

First pullet, F. S. Smith; good head, well spread tail, good color. 2d pullet, Dr. L. E. Heasley; good even color, long back and low well-spread tail. 3d pullet, F. Purdy; fair color, not as good type as 1st and 2d pullets.

First old pen, H. Lester Farnum; a little large in size, fair color and type; females well matched. 2d old pen, Dr. L. E. Heasley; male of good color, fair type; females well matched, good even shade of buff. 3d old pen, Dr. L. E. Heasley; male good type and color; females larger than those of 1st and 2d pens, good type, also large combs.

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Connecticut Competition:—	144; 151
Average N. A. Competitions, with Norwich Feeders:—	167½ eggs per hen
Average Connecticut Competitions, hand-fed	147½

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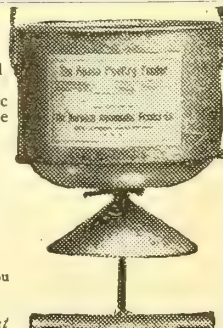
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First young pen, Dr. L. E. Heasley; male bird of especially good type and color; females even shade of buff, well mated, easy winners. 2d young pen, Dr. L. E. Heasley; male bird of good type and fair color, well finished tail; females good type and color, not as well matched as those in 1st pen. 3d young pen, F. S. Smith; male good even shade of light buff; females good type and color.

BLACK LEGHORNS.

First hen, Wm. Bell; extra good in both type and color. 1st cockerel, Wm. Bell; good type and color, good comb and lobe. 1st pullet, Wm. Bell; extra good in type and color, low well-spread tail.

AWARDS AT CHICAGO COLISEUM SHOW.

WHITE ROCKS—H. W. Halbach, Watford, Wis., 1-2-3 cock, 1-2-3-5 hen, 2-3-4 chl., 1-2-3-4-5 plt., 1-2 old pen, 1-3 yng. pen; P. J. Olle, Racine, Wis., 4 cock; U. R. Fishel, Hope, Ind., 5 cock, 4 hen, 1-5 chl., 3-4 old pen, 2-4 yng. pen; A. E. Limieux, Chicago, Ill., 5 old pen.

BUFF ROCKS—J. Cheffer, Kankakee, Ill., 3 cock; Casper Moore & Son, Sheridan, Ind., 2 cock, 1 hen, 1-5 chl., 2 plt.; C. H. Barnes, Kalamazoo, Mich., 4 cock, 3 plt., 1 old pen; T. H. Lucas, Pattonville, Mo., 5 cock, 2-3 hen; Linneman Bros., Watford, Wis., 1 cock; I. A. Asbjeld, Alcester, S. D., 4-5 hen; Marion Culver, Glencoe, Ill., 3 chl.; Rothgeb Bros., Milford, Ill., 2 chl., 1 plt.; Kellogg & Kellogg, Cambridge, Ill., 4 chl., 5 plt.; Dell George, Emington, Ill., 4 plt.

PARTRIDGE ROCKS—Meadow Lawn Poultry Yards, Sand Creek, Mich., 3 cock, 1 hen, 1-2-3 chl., plt.; 1 yng. pen; P. J. Olle, 4-5 cock, 2-3 hen, 4 chl., plt., 2 old pen, yng. pen; Ed. J. Wagner, Arlington, Ill., 2 cock, 4 hen, 5 chl., plt.; Kellogg & Kellogg, 5 hen; Dr. J. Statler, Granger, Mo., 1 cock; J. W. Hunt & Son, Stroughton, Wis., 1 old pen, 3 yng. pen.

COLUMBIAN ROCKS—Wm. B. Hoescher, La Crosse, Wis., 1 cock, hen; I. H. Spencer, Chicago, Ill., 1 old pen, 2 yng. pen; Wm. J. Becklenberg, Chicago, Ill., 1-3 yng. pen.

BLUE ROCKS—Fishel & Hasselman, Hope, Ind., 1-2 cock, hen, chl., plt.

BARRED ROCKS—John W. Yant, Canton, O., 1 cock, plt.-bred pen, 2-5 plt., 1-2 pen, 5 plt.-bred chl.; Geo. Dyson, 2 cock, 1 chl., ckl.-bred hen, 4 chl.-bred plt., 3 ckl.-bred pen; Arthur Irvine, Lake City, Minn., 2 hen, 5 cock, 3 ckl.-bred hen; Fred Bowers, Woodstock, Ill., 4 cock, 3 chl.; John McPherson, Stillwater, Minn., 3 cock, 2 chl.; W. D. Holtermann, Ft. Wayne, Ind., 3-5 hen, 5 ckl.-bred hen, 3 ckl.-bred plt., 1-4 ckl.-bred pen; Howard Sears, Garden Prairie, Ill., 1 hen, 5 lt.-bred pen; Mrs. Chas. E. Popham, Charleston, Ill., 4 hen, 1 plt.-bred cock, chl.; Cameron Bros., 5 chl.; W. E. Cowan, Waterloo, Ia., 4 chl., 2 ckl.-bred hen; G. A. Walker, Polo, Ill., 1 plt., 3 pen, 2 plt.-bred pen; D. F. Palmer & Son, Yorkville, Ill., 4 plt., 2-5 plt.-bred cock, 2 plt.-bred chl.; Dell George, 3 plt., 4 plt.-bred chl.; L. S. Heim, Dubuque, Ia., 3 plt.-bred chl.; D. W. Hammond, Savannah, Ill., 1-2 ckl.-bred plt.; F. M. James, Toulon, Ill., 5 ckl.-bred plt.; Frank J. Dick, Oberlin, O., 4 plt.-bred cock; Geo. E. Girard, Whiting, Ind., 3 plt.-bred cock; Grant A. Sturman, Mt. Carmel, Ill., 5 pen, 4 plt.-bred pen; Luther J. Hall, Kenley, Ill., 4 pen, 5 ckl.-bred plt.; Hicks Burkett, Canton, O., 2 ckl.-bred pen; D. J. Palmer & Son, Yorkville, Ill., 3 plt.-bred pen.

SILVER WYANDOTTES—Herb Reisinger, York, Neb., 4-5 cock, chl., 5 hen, 4 plt.; A. & E. Tarbox, Yorkville, Ill., 1-2 cock, plt., 1-3 hen, chl., 1 old pen, yng. pen; Ira C. Keller, Prospect, O., 3 cock, plt., 2 hen, chl.; Clayton Reed, Kendallville, Ind., 5 plt., 5 plt.; H. F. Bergener, So. Chicago, Ill., 5 hen.

GOLDEN WYANDOTTES—F. L. Clausen, Oconomowoc, Wis., 1 cock, hen; W. M. Hare & Son, Fairbury, Neb., 1 plt., 5 hen; D. G. Anthony, Wynant, Ill., 2 hen, yng. pen, 1 chl., 3 plt.; Charles D. Love, Waukesha, Wis., 3 hen, chl., 5 cock, 2 plt., 1 yng. pen; Ira C. Keller, 5 plt., 4 chl., 2 cock; Frank Ward, Tiffin, O., 3 cock; Albert Fletcher, Warrenton, Va., 4 hen; M. H. Woning, Batesville, Ind., 2 chl., 4 plt.

WHITE WYANDOTTES—L. J. Dem-

berger, Stewartville, Ind., 3 cock, 1 hen, plt., yng. pen; Jacks Poultry Farm, Streator, Ill., 5 cock, hen; F. M. Eakin, Bucyrus, O., 2-3 hen, 1-2-3-5 chl., 4 plt., 1-4 cock, 2 yng. pen; A. J. Shannon, Appleton, Wis., 4 hen, chl., 2 old pen; Frank Hering, So. Bend, Ind., 3 lt.; Chas. W. Prel, Waukesha, Wis., 2-5 plt.; R. W. Williams, Chicago, Ill., 2 cock; J. H. Powers, Chicago, Ill., 3 old pen, 5 yng. pen; Carrington Jones, Buntz, Tenn., 1 old pen; Elton C. Hahon, Norwood, Tenn., 4 yng. pen; R. K. Beeler, Hamilton, O., 3 yng. pen.

BUFF WYANDOTTES—Chas. Howison, Sandwich, Ill., 2-3 cock, 1-2 chl.; W. F. Schultz, Cuyahoga Falls, O., 1-5 cock, plt., 1-2-3 hen, 1 old pen; E. C. Bomger, Davenport, Ia., 4 cock, 5 chl.; J. R. Love, Waukesha, Wis., 2-4 plt.; S. A. Power & Son, Fairfield, Ia., 3 plt., 4-5 hen, 4 chl.

BLACK WYANDOTTES—Shoemaker Poultry Farm, Freeport, Ill., 1 cock, hen.

PARTRIDGE WYANDOTTES—Dr. G. S. Culver, Sandwich, Ill., 3 cock, 2-3 hen, plt., 1 yng. pen; E. G. Lapham, Elkhart, Ind., 4 hen, 1-3 chl., 4 plt.; W. W. Day, Janesville, Wis., 1 cock, 2 chl.; R. S. Jackson, Muscatine, Wis., 2-4-5 cock, 4 hen, chl., 5 plt., 1 old pen; Elmer R. Douber, Warren, Ill., 5 chl.; G. B. Critchfield, Bangs, O., 1 hen, plt.

COLUMBIAN WYANDOTTES—Richard Sawyer, Benton Harbor, Mich., 1 cock, hen, yng. pen, 1-2 chl., 2 plt.; O. R. Eddy, Oconomowoc, Wis., 2 cock, 3 chl., 1-3 plt.

S. C. RHODE ISLAND REDS—F. E. Harrison, Menominee, Mich., 1-4 cock, 2-4 hen, 1-5 plt., 2 chl., yng. pen, 3 old pen; Schenley Heights Poultry Farm, Pittsburg, Pa., 2-5 cock, 2 plt., 1 hen, chl., 5 old pen, 4 yng. pen; Edward Mahood, Webster Groves, Mo., 3 cock, hen, chl.; John Greenwood, Lake Mills, Wis., 5 hen, 4 chl.; Winnebago Poultry Farm, Omro, Wis., 4 plt., 3 yng. pen; Plymouth Poultry Yards, Omro, Wis., 5 chl.; Ed. W. Hahood, Webster Groves, Mo., 1-5 old pen, 5 yng. pen; A. A. Carver, Seville, O., 1 yng. pen, 2 old pen; Chanticleer Farms, Oconomowoc, Wis., 3 plt.

R. C. RHODE ISLAND REDS—Longfield Poultry Farm, Bluffton, Ind., 1 cock, old pen, 2 plt., 1-5 yng. pen, 2-4 hen; Schenley Heights Poultry Farm, 2 cock, 3 hen, 1 chl., 4 plt., 3-5 old pen, Cloverdale Poultry Yards, 4 cock, 5 hen, chl., W. L. McMillan, 2 cock, 1 hen, 4 old pen; Mr. J. L. Davis, Emerson, Neb., 3 chl.; H. E. Simon, Burlington, Ia., 2-4 chl., 3-5 plt., 4 yng. pen; Michael Coffey, Omaha, Neb., 1 plt., F. C. & Mrs. Krueger, Charles City, Ia., 2 old pen, Plymouth Poultry Yards, 5 cock, C. E. Hubble, West Moreland, N. Y., 2 yng. pen; Dr. F. M. Reed, Wyand, Ill., 3 yng. pen.

BUCKEYES—J. V. Mays, Elba, Ala., 7 cock, 2 old pen; John C. Steitz Ware-House Point, Conn., 4 cock, 5 hen, 3-5 chl.; Elton Mahon, Norwood, Tenn., 1-3-5 cock, 2-3-6 hen, 1-2-4-7 chl., 3-4-5-6 plt., 3 yng. pen; H. W. & M. B. Deem, Eaton, O., 2-6 cock, 1 hen; H. E. Errett, Nevada, Mo., 4-7 hen, 1 plt., yng. pen; Ernest Watson, Matheum, Mass., 6 chl., 2 plt.; Fred Harris, Woburn, Mass., 7 plt.

LIGHT BRAHMAS—Harvey C. Wood, Bound Brook, N. J., 4 cock, 3 hen, 4-5 chl., 2 plt., 1 old pen, yng. pen; Roy Beck, Galesville, Wis., 2 cock, 3 chl., 4 plt.; J. W. Shaw, Brocton, Mass., 1 cock, 1-2 hen, chl., 1-3 plt.; Riverdale Poultry Farm, Riverdale, N. J., 4 hen; John Chantry, Yates City, Ill., 5 cock, yng. pen; Geo. M. Layman, Greenville, Ill., 3 cock, old pen; Wm. House & Son, Wheeling, W. Va., 5 hen, 2 old pen, C. C. Dibble & Son, Wolverton, Minn., 5 plt.; Mrs. W. G. Robinson, Bowling Green, Mo., 4 old pen, 3 yng. pen; J. H. Fowles, Sheridan, Ill., 2 yng. pen; McAdams & Myers, Greenville, Ill., 4 yng. pen.

DARK BRAHMAS—Bachelor Button Kennels, Henderson, Ky., 2 cock, 2-3 hen; Shoemaker Poultry Farm, 1 cock, hen, 1-2 chl., plt.

BUFF COCHINS—Shoemaker Poultry Farm, 1 cock, hen.

PARTRIDGE COCHINS—Shoemaker Poultry Farm, 1 chl., plt.

S. C. BROWN LEGHORNS—H. F. Becker, Naperville, Ill., 1 cock, 2-5 chl., 2 pen; Herman Rikhoff, Indianapolis, Ind., 1 cock, plt.-bred, 2-5 cock, 2-3-4 hen, 1-4 chl., 1-3-5 plt., 1 pen; Moore & Moore, Sheridan, Ind., 4 cock; Rosemont Farm, Webster Groves, Mo., 3 cock, chl.; Roy Belsley, Peoria, Ill., 2-4 plt., 1 hen, Wm. Bell, Arlington, Wis., 5 hen, 1 ckl.-bred plt., ckl. plt.-bred.

R. C. BROWN LEGHORNS—Ralph Strong, Kalamazoo, Mich., 1 cock, plt., ckl.-bred plt., 3 chl.; E. I. Shawger, Princeton, Ill., 2 cock, 1-2 chl., 1 ckl.-bred pen.

S. C. WHITE LEGHORNS—Frank E. Hering, 1-3 cock, 1-4 chl., 2-3 old pen, 1

yng. pen; Eugene C. Smith, Aurora, Ill., 2 cock, chl., 2-3 hen, 2-4 plt., 2-5 yng. pen; Rancocas Poultry Farm, Brown Mills, N. J., 4-5 cock, 1-5 hen, 3-5 plt., 1 old pen, 4 yng. pen; Geo. E. Greenwood, Lake Mills, Wis., 4 hen, H. W. Benson, Batavia, Ill., 3 chl.; Keystone Poultry Farm, Lincoln, Neb., 5 chl.; Meadow Lark Farm, Elgin, Ill., 1 plt., 3 yng. pen.

R. C. WHITE LEGHORNS—Harry A. Aiken, Chasburg, Wis., 1 cock, hen, 3 chl., plt.; Geo. Rigler, Bentonport, Ia., 1-2-4 chl., plt.

S. C. BUFF LEGHORNS—H. Lester Farnum, St. Joseph, Mich., 3-5 cock, 3 chl., hen, 1 old pen; Dr. L. E. Hearsley, Holland, Mich., 1-2 cock, 1-5 hen, 1-2-4 chl., 2-4 plt., 2-3-4 old pen, 1-2 yng. pen; Wm. Bell, 5 chl., plt., 4 cock; Floyd Purdy, Tomah, Wis., 3 plt., 2-4 hen; F. C. Smith, Hamilton, O., 1 plt., 3 yng. pen.

BLACK LEGHORNS—Wm. Bell, 1 hen, chl., plt.

BUTTERCUPS—H. W. Court, Kankakee, Ill., 2-3 hen, 3 chl.; T. J. Eulette, Downers Grove, Ill., 5 hen, chl.; Dr. M. Hansen, Osaage, Ia., 1-4 hen, 4 chl.; W. C. Brunig, Elkhart, Ind., 1 chl.

S. C. ANCONAS—Cora Garbutt, Darien, Wis., 1 cock, hen, chl., old pen, yng. pen, 3 plt.; Diamond Poultry Farm, Rushville, Ill., 2-3 hen; Edwin Seal, Rockford, Ill., 2 chl., 1 lt., Hugh Palmer, Yorkville, Ill., 2-4 plt.

R. C. ANCONAS—Harry Brodbeck, St. Mary's, O., 1 hen, chl., 1-2 plt.

BLUE ANDALUSIANS—M. R. Knox, Wilmette, Ill., 2 hen, 3 chl., 1-4 plt.; S. W. Kinney, Owatonna, Minn., 4 cock, 2 hen, chl., plt.; Shoemaker Poultry Farm, 1 chl., hen, 3 cock, plt.; Horace G. Murphy, Muncie, Ind., 1-5 cock, 4-5 chl., 1 chl.

S. C. BLACK MINORCAS—Mrs. Tilla E. Watts, West Concord, Minn., 5 cock, 4 hen, 3 chl., old pen; Chas. G. Pape, Ft. Wayne, Ind., 1-2-4 cock, 1-3 hen, 2 chl., 1-3-4 plt., 1 old pen, yng. pen; John L. Brown, Anderson, Ind., 3 cock, 5 hen, plt., Hibler & Hoover, 4 chl., 2 plt.; Frank W. Young, Chicago, Ill., 1 chl., 2 hen; E. D. Geiger, Canton, Ill., 5 chl.; Chas. L. Schoper, St. Louis, Mo., 2 old pen.

S. C. WHITE MINORCAS—Thomas Brogden, Rush Lake, Wis., 2-3 cock, 1-3 hen, 4-5 chl., 2-4 plt., Harvey Teetz, Gloversville, N. Y., 1 cock, 3 chl., T. D. Brown, Muskego, Mich., 2 hen, 1 chl., 1-3 plt.; Shoemaker Poultry Farm, 4-5 hen, 2 chl.

R. C. WHITE MINORCAS—Thomas Brogden, 1 cock, 1-2 hen, 3 chl., 4 plt., E. Teetz, 1-2-4 chl., 1-2-3 plt.; Harvey Teetz, 5 chl.; Harrison Ruth, Appleton, Wis., 2 cock, 3 hen, 5 plt.

SILVER CAMPINES—The Martling Hen-nery, Ridgefield, N. J., 2-3-4 cock, 1-3-4 chl., 5 plt., 3 old pen, 2 yng. pen; M. R. Jacobus, Ridgefield, N. J., 1-2 hen, 1-5 cock, 2 plt., 4 old pen, 1 yng. pen; Frank E. Hering, 3-4-5 hen, yng. pen, 2-5 chl., 1-3-4 plt., 1-2-5 old pen.

GOLDEN CAMPINES—Mrs. A. A. Carver, Seville, O., 1 cock, old pen, yng. pen, 2 chl.; E. P. Hathaway, Ottawa, Ill., 3 cock, hen, 1 chl., 2-5 yng. pen; M. R. Jacobus, 2-4 cock, 4-5 hen, 5 chl., 1-3 plt., 3-4 yng. pen; Thomas Brogden, 1-2 hen, 3-4 chl., 4-5 plt., 2 yng. pen.

RED SUSSEX—A. & E. Tarbox, 3 cock, chl., 4 plt.; Smith & Patterson, Barberton, O., 5 cock; Houston & Hofus, Charleston, O., 2 cock, 1-4 hen, 1 chl., plt., 2 old pen, yng. pen; Red Sussex Farm, Marysville, Mich., 1-4 cock, 3-5 hen, 2-4 chl., 2-3 plt., 1 old pen, 3 yng. pen; E. T. Gambrel, Heyworth, Ill., 5 chl.; A. A. Carver, 2 hen, 5 plt., 3 old pen, 1 yng. pen.

SPICKLED SUSSEX—A. C. Williams, Ravenna, O., 1 cock, hen, 4 hen, chl., 5 plt., 2 old pen, 3 yng. pen; Rawnsley-Shields Poultry Farm, Columbus, O., 2-4 cock, 2-5 hen, 1-2 chl., plt., 1 old pen, 2-4 yng. pen; A. & E. Tarbox, 3 cock; Blue Ridge Farm, Thurmont, Md., 5 cock; Red Sussex Farm, 3 hen, 5 chl., 3-4 old pen, 1 yng. pen; T. J. Rountree, Nora, Ill., 3 chl., plt.; W. S. Stuber, Wadsworth, O., 4 plt.; A. A. Carver, 5 yng. pen.

LIGHT SUSSEX—Houston & Hofus, 1-2 cock, hen, chl., plt., 1 old pen, yng. pen.

S. C. BUFF ORPINGTONS—A. C. Williams, Ravenna, O., 6 cock, 4-6 hen, 2-5-6-7 plt., 2 old pen, 3-4-7 yng. pen; Rawnsley-Shields Poultry Farm, 5 cock, 1 hen, chl., plt., 1-3-5 old pen, 1-2 yng. pen; Miss Jessie F. Gordon, Spring Valley, Minn., 2-6 chl., 3 plt.; J. W. Cruzan, Mattoon, Ill., 1 cock, 7 chl.; E. L. Bemis, Fond du Lac, Wis., 2 cock, 7 hen; F. A. Foertner, Berea, O., 3 cock; W. M. Swain, Warren, Ill., 4 cock; G. H. Foster, Bloomington, Ind., 7 cock, 5 hen; E. M. Long, Osceola, Ind., 4 plt., 3 hen; G. Z. Wieble, Fremont, O., 2 hen; Harry J. Davidson, Chicago, Ill., 3 chl.;

Harbin's S. C. W. Orpingtons Have Won

33 ribbons and cups at four shows this season, including Sweepstakes, Color and Shape Specials, EIGHT FIRSTS, THIRD OLD PEN GREAT COLISEUM SHOW, 1915, in the hottest competition known. FIRST COCK and BEST DISPLAY, QUINCY, ILL. COCKERELS, brothers of my winners, for sale. Hatching Eggs after January 15th. Pens most scientifically mated with sons and daughters from Madison Square Garden, Coliseum winners. Mating list on request.

Edmond J. Harbin - P. O. Box A-457 - Riverside, Illinois

A. C. Andrews, Miller, Neb., 4 ckl.; Gus Nesland, Davenport, Ia., 5 ckl.; Frank C. Cleveland, Morgan Park Sta., Chicago, Ill., 5-6 yng. pen; A. B. Porter, La Salle, Ill., 4 old pen; F. A. Kaup, Glen Ellyn, Ill., 6 old pen.

S. C. WHITE ORPINGTONS—Aldrich Poultry Farm, Columbus, O., 1-6 cock, 2-4 hen, yng. pen, 4-5 plt.; 1-6 ckl.; F. W. Gensch, Omro, Wis., 3 cock, 6 hen, 2-7 ckl., 3-7 lt., 1 old pen; Woolery Farm, Bloomington, Ind., 2-4-5 cock, 1-5 hen, 3 ckl., 1-3 yng. pen; Rose City Poultry Yards, New Castle, Ind., 7 cock, 3 hen; Frank W. Jacobs, Anderson, Ind., 7 hen; Rogers Poultry Farm, Cincinnati, O., 4-5 ckl., 2 plt., old pen; Brackenfield Poultry Farm, 1-6 plt.; Mossholders Orpington Farm, Appleton, Wis., 5 old pen; Wm. N. Otto, Indianapolis, Ind., 4 old pen; E. J. Harbin, Riverside, Ill., 3 old pen; Mrs. R. Stonestreet, Nashville, Tenn., 5 yng. pen.

S. C. BLACK ORPINGTONS—Brackenfield Poultry Farm, 1-2-3-4 cock, 4 hen, 2-3-4 ckl., 1-2 plt.; Robert H. Wallace, La Crosse, Wis., 5 cock, 2-3 hen, 3 plt., 1 old pen; E. M. Long, 5 hen, ckl., 4 plt.; Robert B. Gillars, Bellevue, O., 1 ckl.; Miss Jessie E. Gordon, 5 plt.; Mrs. W. H. Fry, Quincy, Ill., 1 hen; S. T. McCabe, Columbus, O., 2 old pen.

BLUE ORPINGTONS—Wm. A. Stoltz, Indianapolis, Ind., 5 cock, 1 hen, yng. pen, 2 plt., old pen; Robert E. Gillars, 3 cock, ckl. plt., 5 hen; Fred Kau, Indianapolis, Ind., 2 cock, 4 hen, 1-2 ckl., 1-4 plt., 1 old pen; Rogers Poultry Farm, 1-4 cock, 2-3 hen.

PARTRIDGE ORPINGTONS—Blue Ridge Farm, Thurmont, Md., 1 cock; E. F. Schmidt, Hazelrigg, Ind., 1 yng. hen.

BUFF MINORCAS—E. F. Schmidt, 1 cock, hen, ckl., plt.

SUMATRAS—Shoemaker Poultry Farm, 1 cock, yng. pen, 1-2 hen, ckl., plt.

WHITE FACED BLACK SPANISH—Shoemaker Poultry Farm, 1 cock, hen.

WHITE CRESTED BLACK POLISH—Shoemaker Poultry Farm, 1 cock, 1-2-3 hen.

SPANGLED WYANDOTTES—L. Cook, Oakville, Ia., 1 cock, hen, ckl., plt.

SILVER SPANGLED HAMBURG—Shoemaker Poultry Farm, 1 cock, hen.

HOUDANS—Frank L. Grott, Kiel, Wis., 2 cock, 2-4 plt.; Chas. A. Steward, Plano, Ill., 1 cock, old pen, yng. pen, 3-4 hen, 1-2 ckl., 1-3 plt.; Harry A. Young, Champaign, Ill., 1-2 hen.

WHITE HOUDANS—Francis C. Cook, Winnetka, Ill., 1 cock, 1-2-3 plt.; Edgar Alden, Winnetka, Ill., 1-2-3 hen, 1 ckl.; M. L. Starks, Starks, Wis., 1-2-3 old pen, 1-2 yng. pen.

SALMON FAVEROLLES—Chas. Bartholomew, Valparaiso, Ind., 1 cock, hen.

DARK CORNISH—E. A. Tomlinson, Maccon, Ill., 2 cock, 4 hen, 3 plt.; R. E. Curtis, Ransom, Ill., 1 cock, 4-5 plt.; Dowdy & Dawdy, Greenville, Ill., 3 cock, 5 hen, 1 plt.; T. Ellis Harvey, Kansas City, Mo., 2-3 hen, 3 ckl.; Floyd Schuyler, Savannah, Ill., 1 hen, ckl., 2 plt.; W. B. Grinyer, Elroy, Ill., 2 ckl.; Fogle & Tyrrell, Bourbon, Ind., 4-5 ckl.; Shoemaker Poultry Farm, 1 old pen.

WHITE CORNISH—W. B. Grinyer, 1 cock, hen, ckl., plt.

SILVER SEBRIGHT—Wm. Blachely, Shelbyville, Ind., 1 cock, hen.

GOLDEN SEBRIGHT—T. M. Campbell, Darlington, Ind., 2 cock, 2-3 hen, 1 ckl., 1-2 plt., old pen; Ira C. Keller, 1 cock, hen.

R. C. BLACK BANTAMS—R. J. Stange, Adrian, Mich., 1 cock, 1-2 hen, 1 ckl., plt.; A. E. Lemieux, 2 cock.

R. C. WHITE BANTAMS—R. J. Stange, 1-2 cock, hen.

LIGHT BRAHMA BANTAMS—Wm. F. Priardon, Worcester, Mass., 1 hen, cock, ckl., plt.

BUFF COCHIN BANTAMS—Wm. McGuire, Indianapolis, Ind., 1-3 cock, 1-2 hen, plt.; Ralph Strong, 2 cock, 4 hen, 1 ckl., 3 plt.; Otto L. Kreise, Indianapolis, Ind., 3-5 hen.

WHITE COCHIN BANTAMS—Claud Thomas, Moores Hill, Ind., 1-2-3-4 cock, hen, ckl., plt., 1-2 old pen.

BLACK COCHIN BANTAMS—Wm. M. McGuire, 1 cock, ckl., plt., 3 hen, plt.; J. L. Oliver, Indianapolis, Ind., 1-2-4 hen; W. A. Marshall, Piteairn, Pa., 2 ckl., 4 plt.

BLACK JAP. BANTAMS—L. E. Boecker, Naperville, Ill., 1 cock, 1-2 hen.

PARTRIDGE WYANDOTTE BANTAMS—F. E. McKinley, Indianapolis, Ind., 1 cock, 1-2-3-4 hen, 1-2 plt.

BLUE COCHIN BANTAMS—Frank H. Hasselman, Indianapolis, Ind., 1 cock, 1-2 hen.

BROWN LEGHORN BANTAMS—Frank G. Schreiber, Oak Park, Ill., 1 ckl., plt.

Bronze Turkeys—James Shady,

Craigville, Ind., 4 cock, 2 hen; W. W. Day, Janesville, Wis., 1-3 cock; Rothgeb Bros., Milford, Ill., 2-5 cock, 1-3 hen, 1-2 ckl., plt.; Shoemaker Poultry Farm, 2 hen.

WHITE HOLLAND TURKEYS—Southern Slope Poultry Yards, 1 ckl., plt.

PEKIN DUCKS—Diamond Poultry Farm, Rushville, Ill., 4 cock, 2-3 hen, Longwood Farm, Lake Villa, Ill., 1-2 cock, 1 hen, ckl., plt.; Shoemaker Poultry Farm, 3 cock, 5 hen; R. O. Good, Polo, Ill., 5 cock, 4 hen.

ROUEN DUCKS—W. W. Day, 3 cock, 1 hen, ckl., 2 plt.; Shoemaker Poultry Farm, 2 cock, 2-3 ckl., 3-4 plt.; Harvey Young, Osco, Ill., 1 cock, plt.

COLORED MUSCOVY DUCKS—Frank Hering, 1 cock, hen.

TOULOUSE GESE—G. M. McOmber, Berrien Springs, Mich., 1 cock, hen; Frank Borchers, German Valley, Ill., 1 ckl., plt.

AWARDS AT NORTHWESTERN POULTRY, PIGEON AND PET STOCK ASSOCIATION, ERIE, PA.

When not given the address is Erie, Pa.

S. C. BLACK MINORCAS—John Wittenburg, 3 cock, 5 hen; W. B. Carpenter, 1 cock, 3 hen, 2-5 ckl., 3-4 plt.; Paul Schendler, 2 cock, 1-2 hen, 3-4 ckl., 1 plt., pen; P. J. Doohor, Spartansburg, Pa., 4 hen, 1 ckl.

R. C. BLACK MINORCAS—C. L. Kindle, 1 cock, hen.

S. C. WHITE MINORCAS—Harry Peters, 1-2 plt.

S. C. R. I. REDS—J. W. Taylor, 3 cock; A. A. Lucas, Dunkirk, N. Y., 4 cock, 1-2 hen; Phil M. Ferry, Avonia, Pa., 1-2 cock, 3 hen, 1 ckl., pen, 2 plt.; John Martin, 5 cock; Thos. J. Lane, Dreshler, Pa., 3 ckl.; Walter M. Will, 2 ckl., 1 plt.

R. C. R. I. REDS—Michael L. Leonard, 3 cock, 4-5 plt.; A. A. Lucas, Dunkirk, N. Y., 4 cock, hen; Phil M. Ferry, Avonia, Pa., 5 cock, 3-4-5 hen, 2-3-4 ckl., 1-2-3 plt., 1-2 pen; J. A. Kunz, 2 cock, hen; P. J. Connors, Union City, Pa., 5 ckl.; F. D. Wilson, Geneva, O., 1 ckl.

BARRED PLYMOUTH ROCKS—Frank Pletz, 1-2 cock, 1-2-3-4 hen, 1-5 ckl., 2-3 plt., 4 pen; Samson Prescott, 3 cock, pen; Artson L. Stebbins, Sherman, N. Y., 5 hen, 2-3 ckl., 4-5 plt.; H. D. Riley, Strafford, Pa., 4 ckl., 1 plt., 2 pen.

WHITE PLYMOUTH ROCKS—E. C. McGarvey, 4 cock, 2-4 hen; R. S. Fuller, Wesleyville, Pa., 1 cock, 5 hen, 3-5 plt., 1 pen; Aldrich & Wilde, 2-3-5 cock, 3 hen, 1-2-3-4 ckl., 2-4 plt., 2 pen; Harry V. Peters, 1 hen, plt.

PARTRIDGE PLYMOUTH ROCKS—W. W. Will, 1 cock, 1-2-3 hen, plt., 1-2 ckl.

S. C. BUFF ORPINGTONS—Arthur Clemens, 1 cock, hen, 1-2 ckl., 1-2-3 plt.; James Currie, 2 hen, 5 plt.; A. J. Guckenbiehl, 3-4 ckl., 4 plt.

S. C. BLACK ORPINGTONS—Alois Bettsch, 3-4 cock; Roy G. Sechrist, 1 cock, 1-5 hen; G. A. Hawker, 2 cock, 4 hen, 3 ckl., plt.; E. E. Johnson, 2-3 hen, 1-2 ckl., plt.

S. C. WHITE ORPINGTONS—Rolla McCray, Waterford, Pa., 1-3 hen, 1 cock, ckl., plt., pen; Roy Sechrist, 2 cock, 2-5 hen; Thos. J. Lane, Dreshler, Pa., 4 hen; R. S. Fuller, Wesleyville, Pa., 2 plt.

S. C. BROWN LEGHORNS—Emmett Dundon, 1-2 hen, 1-2-3-4 plt.

S. C. WHITE LEGHORNS—Steph. Mattes, 4 cock, 5 hen; A. M. Favre, Greenville, Pa., 2 cock, 1 hen; Will Ploss, Corry, Pa., 1 cock, 3 ckl.; John Russell, 5 cock, plt.; J. C. Bowser, 1 hen, 3 cock, 4-5 ckl., 1-4 plt.; Clayton Wolf, Ripley, N. Y., 4 hen, 3 pen; Albert Waldron, Hydetown, Pa., 3 hen; A. Becht, 2 hen, pen; Jos. Oliver, 1 ckl.; F. D. Buck, Geneva, O., 2 ckl.; C. M. Burns, 2-3 plt., pen.

S. C. BUFF LEGHORNS—D. W. Northup, 1-2 hen, 3-4 plt.; S. E. Shipman, North Girard, Pa., 1-2 plt.

S. C. BLACK LEGHORNS—Chas. Veit, 1 hen, plt.

SILVER WYANDOTTES—John Wittenburg, 1-2-3 hen.

GOLDEN WYANDOTTES—J. E. Hewitt, Cranesville, Pa., 2 ckl., 1 plt.; Roy E. Sechrist, 1 ckl.

WHITE WYANDOTTES—W. T. Bennet, Lisbon, O., 1 cock, hen, ckl., plt.; J. F. Yeager, Silver Creek, N. Y., 2 ckl.; John G. Curtis, 3 ckl., 2 plt.

BUFF WYANDOTTES—R. A. Page, North East, Pa., 2-3-4-5 cock, 1-2-3-4 hen, ckl., plt., 1 pen; Ed. Briggs, Waterford, Pa., 1 cock, 5 hen, ckl., plt.

PARTRIDGE WYANDOTTES—W. H. Johns, 1 cock, 2-3-4-5 hen, 2 ckl., plt.; Thos. E. Owens, Waterford, Pa., 1 hen, ckl., plt.; J. A. Hewitt, Cranesville, Pa., 3 ckl., plt.

COLUMBIAN WYANDOTTES—Rollo McCray, Waterford, Pa., 1-2 cock, hen, ckl., plt.; L. S. Grabe, 3 ckl., plt.

MOTTLED HOUDANS—Lawrence A. Loesch, 1 cock, 2 ckl.; James Derby, 2-3 cock, 1 hen, ckl., 1-2-3-4-5 plt.

SULTANS—Xavier Pfadt, 1 cock, hen.

BLACK LANGSHANS—Alex. Warner, Titusville, Pa., 1-2 ckl., plt.

PIT GAMES—R. R. Lewis, North East, Pa., 1-2 hen, 1-2-3-4 ckl., 1-2-3-4-5 plt.

DARK CORNISH—R. R. Lewis, North East, Pa., 1 ckl.

SILVER CAMPINES—Robt. N. Morgan, Geneva, O., 1 cock, ckl., 1-2 hen, 1-3 plt.; Willard E. Raymond, Geneva, O., 2 cock, plt., 3 hen; Harry Hippel, 4-5 hen, 2 ckl.

S. C. ANCONAS—Chas. Spute, 1 cock, hen, 1-2 ckl., plt., pen.

AWARDS AT ATLANTIC, IA, SHOW—BOTNA VALLEY POULTRY ASSOCIATION, MAX R. ROSS, SECRETARY.

BARRED ROCKS—F. J. Rattenmeyer, Carroll, Ia., 1 plt.-mated cock, pen, 1-2 plt.-mated hen, 1-2-3 plt.-mated ckl., 1-2-3-4 plt.-mated plt., 1-2-3 ckl.-mated cock, 3-4 ckl.-mated hen, 2-3 ckl.-mated plt., 5 ckl.-mated ckl., 2 ckl.-mated pen; W. W. Trent, Lewis, Ia., 1-2 ckl.-mated hen, ckl., 1-4 ckl.-mated plt., pen; E. L. Henke, Atlantic, Ia., 3 ckl.-mated ckl., pen; J. F. McCourt, Atlantic, Ia., 4 cock, 5 hen, plt., pen.

WHITE ROCKS—W. F. Berger, Harlan, Ia., 1 ckl., 4 pen; A. H. Sherwood, Atlantic, Ia., 4 cock, 2 hen, plt., 5 pen; Mrs. E. C. Turner, Griswold, Ia., 1 cock, pen, 1-3-5 hen, 4 ckl.; E. L. Henke, 2 cock, ckl., pen, 4 hen, plt.; R. Okell, Lewis, Ia., 3 cock, pen, 1-2-5 plt.; Mrs. G. N. Collier, Atlantic, Ia., 3 ckl.

BUFF ROCKS—M. G. Weaver, Lewis, Ia., 1 cock, old pen, 1-2-3-4 hen, 1-3-4-5 ckl., 1-3-5 plt., 1-3-4 yng. pen; E. L. Henke, 2 ckl., yng. pen, 2-4 plt.

S. C. RHODE ISLAND REDS—G. H. Long, DeSoto, Ia., 2 cock, 3 hen; A. Dallas, Atlantic, Ia., 5 hen, 2-3 ckl., 1 plt., yng. pen; H. C. Gillett, 1 cock, 4 yng. pen; G. H. Allwell, Shenandoah, Ia., 4 cock, 1 hen; Henry Buhman, Manning, Ia., 1-5 ckl., 5 plt., 2 yng. pen; Max R. Ross, Atlantic, Ia., 3 cock, yng. pen, 2-4 hen, 4 ckl., 2-3-4 plt., 1 old pen.

R. C. RHODE ISLAND REDS—Mrs. Grace Eads, Marne, Ia., 2 cock, plt., tie for 2 ckl., 3 ckl., pen; Mrs. W. F. Prather, 1 cock, 3 hen, 2 old pen, 5 yng. pen; H. C. Gillett, tie for 2 ckl., 2 yng. pen, 3-4 plt.; J. W. Murphy, Atlantic, Ia., 3 cock, 4-5 hen, 5 plt.; H. J. Wilkins, Anita, Ia., 4 ckl., 5 plt.; Max R. Ross, 4-5 cock, 1-2 hen, 1 ckl., plt., yng. pen, old pen.

COLUMBIAN WYANDOTTES—Emil Heblinger, Audubon, Ia., 1 cock, hen, ckl., pen, 1-2-3 plt.

WHITE WYANDOTTES—John W. Williams, Redfield, Ia., 3 cock, 2 ckl., pen; Mrs. Jas. Atwood, Atlantic, Ia., 5 hen, 1 ckl., 2-3 plt.; B. L. Johnson, Manning, Ia., 1 cock, pen, 1-2-3-4 hen, 2 ckl.; E. M. Bourne, Atlantic, Ia., 2 cock.

S. C. WHITE ORPINGTONS—N. Langbehn, Avoca, Ia., 3-4-5 cock, 1-3-4-5 hen, 2-3-4 ckl., 1-2 plt., pen.

S. C. BUFF ORPINGTONS—A. C. Johnson, Avoca, Ia., 1-2-4 ckl., 4 plt., 1 yng. pen; Max Clifford, Winterset, Ia., 3 cock, 1 hen, 3-5 ckl., 2-5 plt., 2 yng. pen; Shurig & King, Shenandoah, Ia., 1-3 plt.; E. Ladds, Shenandoah, Ia., 4 cock, 3 hen; J. W. Cuykendall, Atlantic, Ia., 1 cock, old pen, 2-4-5 hen; Emil Heblinger, 2 cock, 3 yng. pen.

S. C. BLACK ORPINGTONS—Hans Clausen, Atlantic, Ia., 1-2 hen, plt., 1 ckl.

S. C. WHITE LEGHORNS—L. H. Simmons, Atlantic, Ia., 1 cock, 3-4-5 hen, 2 plt., pen; R. M. Johnson, Atlantic, Ia., 1 ckl., pen, 1-5 plt.; Geo. Cranston, Atlantic, Ia., 2 cock, 1 hen, 4 pen; Shurig & King, 3-4 plt.; Earl Hays, Earlham, Ia., 2-5 ckl.; E. E. Archer, Lewis, Ia., 3-4 ckl., 3-5 pen.

S. C. BROWN LEGHORNS—Geo. Most, Atlantic, Ia., 2 hen, ckl.

R. C. BROWN LEGHORNS—H. Krohn, Avoca, Ia., 1-2-3-4-5 ckl.

R. C. WHITE LEGHORNS—E. M. Bourne, Atlantic, Ia., 1 cock, pen, 1-2-3-4 hen.

BLACK LANGSHANS—Emil Heblinger, 1-2 hen, 1 ckl., pen, 1-2-3-5 plt.; Mrs. J. F. Griffin, Atlantic, Ia., 2-3-4 ckl., 4 plt.

SILVER SPANGLED HAMBURG—Hans Clausen, 1 cock, pen, 1-2-3-4 hen.

GOLDEN PHEASANTS—Dick Doran, Atlantic, Ia., 1 cock, ckl.

BLUE ANDALUSIANS—Hans Clausea, 5 cock, 1-2-3-4-5 hen, 1-2 ckl., 1-2-3-4 plt., 1-2-3 pen.

WHITE COCHIN BANTAMS—E. L. Henke, 1-2 hen.

GOLDEN SEBRIGHT BANTAMS—G. H. Allwell, 2 cock, 1 hen, ckl., plt.; Arthur Prall, Atlantic, Ia., 1 cock, 2 hen, 2-3-4-5 ckl., plt.

Smith's S. C. Buff Leghorns I HAVE NO OTHER BREDS

The largest and best breeder of Bufts in the world, winners at fifteen of the largest shows, including Hagerstown, Chicago and the World's Fair at San Francisco in 1915. My birds are show color and type and are bred to lay the year around. I have taken great care in producing great layers and show birds for the past 17 years. Can furnish breeding stock, baby chicks and eggs by the thousands.

F. S. SMITH - Box C and D - HAMILTON, OHIO

DARK CORNISH—H. C. Gillett, 2 hen; W. C. Williams, Atlantic, Ia., 3 hen, plt., 2-3-5 ckl., 2 pen; Max R. Ross, 1 cock, 1-2-4-5 hen, 1-4 ckl., 1-4-5 plt., 1-3 pen.

FRIZZLES—John W. Gillett, Atlantic, Ia., 1 ckl., plt.

BLACK BREASTED RED GAMES—W. R. Neal, Atlantic, Ia., 1 cock, pen, 1-3-5 hen, 1-2 plt.; E. C. Huff, Atlantic, Ia., 2 cock, 2-4 hen.

GOLDEN DUCKWING GAMES—Wm. Snouffer, Atlantic, Ia., 1 cock, pen, 1-2-3-4 hen.

KENTUCKY DOMINIQUE—Wm. Snouffer, 1 cock, pen, 1-2-3-4 plt.

B. B. RED GAME BANTAMS—Dick Doran, 1 cock, pen, 1-2-3-4 hen; Willie Prall, Atlantic, Ia., 1 ckl., plt.

ENGLISH CALL DUCKS—J. W. Brockert, Atlantic, Ia., 1 on trio; Carl Portwig, Atlantic, Ia., 2 on trio.

PEKIN DUCKS—W. S. Mountain, Anita, Ia., 1 on trio.

ROUEN DUCKS—McKinley Rowe, Atlantic, Ia., 1 on trio; Lester Sampson, Atlantic, Ia., 2 on trio.

WHITE INDIAN RUNNER DUCKS—Mrs. Jas. Atwood, Atlantic, Ia., 1 on trio; Shurig & King, 2 on trio.

FAWN INDIAN RUNNER DUCKS—E. C. Huff, Atlantic, Ia., 1 on trio.

EMBDEN GESE—W. S. Mountain, 1 on trio.

TOULOUSE GESE—Geo. Most, Atlantic, Ia., 1 on trio.

BRONZE TURKEYS—E. L. Henke, 1 on old trio; Geo. Most, 2 on old trio; Mrs. F. Bell, Wichita, Ia., 1 on yng. trio.

BOURBON RED TURKEYS—Willis Campbell, Atlantic, Ia., 1 on trio.

THE NORWALK, OHIO, SHOW.

We recently enjoyed an afternoon spent at this show which contained over 700 birds and was one of the largest ever held in the state outside of the larger cities. The officials in charge of this event are real hustlers and it is no wonder that their show proved such a success.

J. E. Grant officiated as judge and his work gave entire satisfaction.

The Partridge Rocks were the feature of the show and this class consisted of about 100 entries and the quality was a real treat for those fanciers fortunate enough to have been in attendance.

Barred, White and Buff Plymouth Rocks, fair sized classes and quality good. The same can be said of White Wyandottes. Balance of Wyandottes, rather light in numbers, but some excellent birds among the winners.

S. C. and R. C. Reds were conspicuous by their heavy entry and the high quality of the winners. Awards on these pretty well split up among the different exhibitors. The Asiatic class was represented by a small but really select exhibit of White and Black Langshans. S. C. White Leghorns, fair in numbers; quality among winners strictly first class. S. C. Brown Leghorns, about the nicest class we have seen in this section for some seasons. Buff and Duckwing Leghorns, small classes, but quality was good. There was quite an entry of Black Leghorns and the winners were high class. There was a nice lot of Anconas; this variety seems to be steadily growing in popularity. S. C. and R. C. Black Minorcas and Andalusians, small classes of good quality.

Dark Cornish brought out the biggest entry in the English classes and there were some stars among the winners—noticed some excellent birds among the White and the Red Laced Cornish. Orpingtons, small classes, winners good. Some nice Red and Speckled Sussex were shown.

LIST OF AWARDS.

BARRED PLYMOUTH ROCKS—Oscar D. Fox, Wakeman, 1 cock, pen, 2-4 ckl., 3 hen, 2 plt.; Chas. McClave, New London, 2 cock, 1 hen; E. O. Ansted, Elmore, 1 cock, 2-4 hen, 1-4 plt., 2 pen; Grigsby & Richards, Gloucester, 3 plt.; H. H. Haskins, Wakeman, 3 ckl.

WHITE PLYMOUTH ROCKS—J. Finley Harlan & Son, Cleveland, 1-3-4 ckl.; J. F. Blausey, Woodville, 2 ckl., 1-2-3 plt., 1 pen; C. W. Anderson, Norwalk, 4 plt.; C. R. Tinkey, Norwalk, 2 pen; R. W. Mead, Norwalk, 3 pen.

BUFF PLYMOUTH ROCKS—J. M. Beck, Spencer, 1 cock, pen, 1-3 ckl., 1-2-3 hen, 2-4 plt.; W. A. Rose, Norwalk, 2 ckl., 1-3 plt.

PARTRIDGE ROCKS—R. W. Mead, 1-2-3 cock, 1-2 hen, 2 plt., 1-3 pen; Felix Kugle, Norwalk, 3-4 ckl., 4 plt., 2 pen; Kugle tied 2 ckl.; Geo. Fifer, Norwalk, 4 cock, hen; Al. Fox, Norwalk, 1 ckl.; Adelbert White, New London, 2 ckl., tied with Kugle; Chas. Friend, Norwalk, 1-3 plt.; H. G. Hill, Norwalk, 3 hen; Kent Woodward, Norwalk, 4 pen.

WHITE WYANDOTTES—K. D. Poultry Co., Plymouth, 1 cock, ckl., pen, 1-4 hen, plt.; Geo. Fifer, 2-3-4 cock, 2 ckl., pen, 2-3 hen, plt.; Frank W. Ferris, Castalia, 3-4 ckl.

BUFF WYANDOTTES—Samuel Ledgett, Wellington, 1 ckl., hen.

BLACK WYANDOTTES—Arthur H. Florey, Wauseon, 1 ckl., plt.

COLUMBIAN WYANDOTTES—L. J. Morris, Oberlin, 1 cock, 2 hen; E. W. Pierce, Norwalk, 1 hen, 1-2 plt.

S. C. RHODE ISLAND REDS—Meyers & Mauntler, Woodville, 1-3 cock; John W. Dipple, Norwalk, 2 cock, 1-4 ckl., 2-3-4 hen; H. G. Stacey, N. Ridgeville, 2 ckl.; J. F. Blausey, 4 cock, plt., 1 pen; C. W. Franks, Norwalk, 3 ckl.; Frank H. Panther, Cleveland, 3 plt.; Ray Matson, West Mentor, 1-2 plt.; E. H. Norton, Wellington, 1 hen, 2 pen.

R. C. RHODE ISLAND REDS—Albert Harrington, Maumee, 1 cock, 3 ckl., 1-4 hen; E. H. Norton, 3 cock, plt., 2 hen, pen; H. G. Stacey, 1-4 ckl., 1-2-4 plt., 1 pen; Ray W. Pusback, Norwalk, 4 cock, 3 pen; Harry L. Merrill, Wauseon, 2 ckl.; C. W. Anderson, 2 cock, 4 pen.

BLACK LANGSHANS—Geo. Milne, Sandusky, 1-2 cock, ckl., hen, plt.; Z. B. Vickery, Fremont, 3 cock, hen.

WHITE LANGSHANS—Phillip Bremser, Norwalk, 1 cock, hen, 1-2-3 ckl., plt.

S. C. BROWN LEGHORNS—Chas. Friend, 1-2-3 cock, 1-2-3-4 ckl., hen, plt., 1-2 pen; C. S. Barnes, Wakeman, 3 pen.

S. C. WHITE LEGHORNS—S. A. Drake, Norwalk, 1-2-3 cock, 2-3-4 ckl., 1-3-4 hen, 1 plt., 1-3 pen; D. Kies, Norwalk, 1 ckl., 3-4 plt., 2 pen; E. A. Schneider, Gibsonburg, 2 hen, plt., 4 pen; J. H. Hargraves, Norwalk, 4 cock.

S. C. BUFF LEGHORNS—Rena Cassoubon, Maumee, 1 ckl., plt.

S. C. BLACK LEGHORNS—J. C. Hiles, Cleveland, 1 cock, 4 hen, 3 plt.; T. R. White, Fremont, 1 ckl., pen, 2-3 hen, 1-2 plt.; L. D. Allen, Oberlin, 1 hen, 4 plt.

SILVER DUCKWING LEGHORNS—J. C. Hiles, 1-2 hen.

S. C. MOTTLED ANCONAS—C. A. Wilkinson, Fremont, 1 cock, 2 ckl., pen, 3-4 hen; C. A. Knight, Olena, 2-3 cock; B. Firestone, Spencer, O., 1-3 ckl., plt., 1-2 hen, 1 pen; L. D. Allen, New London, 4 ckl., plt.; Arthur H. Florey, 2 plt.

S. C. BLACK MINORCAS—Geo. Fifer, 1 cock, plt.; Z. B. Vickery, Fremont, 1 ckl., hen, 2 plt.; J. Lytle, Clyde, 2 ckl.

R. C. BLACK MINORCAS—Chas. McClave, New London, 1 cock, hen.

ANDALUSIANS—Chas. Hopkins, Norwalk, 1-2 hen, 4 plt.; J. L. Paul, Norwalk, 1 ckl., pen, 1-2-3 plt.

BUTTERCUPS—Ida Desbro, Norwalk, 1 cock, 1-2 hen.

BUFF ORPINGTONS—P. B. Kirkton, New London, 1 ckl., pen, hen, 2-4 plt.; Lyman Miller, Norwalk, 1 plt.

BLACK ORPINGTONS—Chas. McClave, 1 cock, hen; P. B. Kirkton, 2-3 hen; Tracey Bros., Sandusky, 2 cock, 4 hen; W. W. Dunn, Norwalk, 1 plt.

S. C. WHITE ORPINGTONS—J. A. Roscoe, Norwalk, 1-2 ckl., 1-2-3 plt.; H. C. Arnold, Oberlin, 3 ckl., 1-2 hen, 4 plt., 1 pen.

SPECKLED SUSSEX—G. M. Smith, Oberlin, 1 cock, pen, 2 ckl., 1-3-4 plt.; Bert Lock, Oberlin, 1 ckl., 2 plt.

RED SUSSEX—Bert Lock, 1-2-3 ckl., 1-2 plt.

RED CAPS—H. A. Fenimore, Berea, 1 ckl.

DARK CORNISH—Chas. Woodward, Norwalk, 1-3-4 cock, 1-2-3-4 ckl., hen, plt., pen; A. H. Arnold, Collins, 2 cock.

WHITE CORNISH—Dean Sheldon, Norwalk, 1 cock, pen, 1-2-3-4 hen.

WHITE LACED RED CORNISH—R. W. Mead, 1 ckl., pen, 1-2-3-4 plt.

S. SPANGLED HAMBURG—Tracey Bros., 1 ckl., hen, plt.

W. C. BLACK POLISH—Chas. McClave, 1 ckl., plt.

GOLDEN CAMPINES—Carl C. Widener, Oberlin, 1 cock, hen, 3 plt.; C. M. Smith, 1 ckl., pen, 1-2-4 plt.

SILVER CAMPINES—W. W. Dunn, 1 cock, hen, 2 hen, pen; G. M. Smith, 1 ckl., 1-2-4 plt., 3 pen; J. F. Blausey, 2 ckl., 3 plt., 1 pen.

R. C. BLACK BANTAMS—F. W. Weisenberger, Toledo, 2 cock, pen, 1-2 ckl., hen, 1-2-3-4 plt.; Dean Sheldon, 3 ckl.

HOUDANS—Chas. O. Jackson, Norwalk, 1 cock, pen, 1-2-3-4 ckl., 1-2-3 hen, plt.

PEKIN DUCKS—C. O. Jackson, 1 drake, duck.

WHITE INDIAN RUNNER DUCKS—H. H. Haskins, 1-2 drake, duck.

TOULOUSE GESE—C. O. Jackson, 1 gander, 2 goose; John Dipple, Norwalk, 1 goose, 2 gander.

BROWN CHINA GESE—Chas. O. Jackson, 1 gander, goose.

AWARDS AT SOUTHERN NEW ENGLAND POULTRY ASSOCIATION HELD AT NEW LONDON, CONN.—M. M. THOMAS, SECRETARY.

ANCONAS—Rev. C. T. McCann, Manchester, Conn., 1 ckl., pen.

LIGHT FAHMAS—H. P. Bill, Hartford, Conn., 1-2 ckl., plt.; F. & A. J. Connor, New London, 1 hen.

PARTRIDGE COCHINS—Riverhead Farm, Old Mystic, Conn., 1-2 cock, hen, ckl., plt., pen.

DOMINIQUE—Ernest S. Smith, Waterford, Conn., 1 cock, hen.

SILVER DUCKWING GAMES—F. & A. J. Connor, 1 cock, hen.

WHITE CORNISH INDIAN—L. J. Smith, Deep River, Conn., 1 pen.

BLACK LANGSHANS—Leslie C. Phillip, New London, Conn., 3 cock, hen, plt., pen, 1 ckl.; Gilbert L. Brown, 4 cock, 5 ckl., plt.; Thomas Fowler, 1-2 cock, plt., pen, 1-2-4 hen, 2-3 ckl.

S. C. WHITE LEGHORNS—Geo. R. Swain, Old Mystic, Conn., 2-4 ckl.; Branford Farms, Groton, Conn., 1 cock, hen, ckl., pen; Harry B. Putney, Guilford, Conn., 3 cock; Miss Nellie P. Fuller, New London, Conn., 2-4 cock, 3 ckl., 1-2-3-4 plt., 2-3 pen.

BLUE LEGHORNS—Frank Fitch, Noank, Conn., 2 plt.; T. W. Pollard, Mystic, Conn., 1-2 ckl., 1 plt., hen, pen.

BLACK MINORCAS—Rev. C. T. McCann, 1 cock, hen.

BUFF ORPINGTONS—Louis E. Klatte, Seymour, Conn., 3 ckl., 4 plt., 1 pen; F. D. Davis, Norwalk, Conn., 2 cock, 3 hen, 4 pen; Miss Nellie P. Fuller, 2 hen, plt., 1-4 ckl., 3 pen; W. D. Fesler, 1-3 cock, 1-4 hen, 2 ckl., 1 plt., 2 pen; A. C. West, Groton, Conn., 3 plt.

R. C. BUFF ORPINGTONS—L. J. Smith, 1 ckl., plt.

S. C. BLACK ORPINGTONS—Dr. Carl Beach, Hartford, Conn., 1 cock, pen, 2-3 hen, plt., 2 ckl.; E. A. Todd, New Haven, Conn., 2 cock, pen, 1-4 hen, 1 ckl., 2-4 plt.

S. C. WHITE ORPINGTONS—Vin. W. Starr, Waterford, Conn., 1-2 cock, 1-2-3-4 hen; Joseph Lee, New London, Conn., 1 pen.

R. C. RHODE ISLAND REDS—F. Fable, Gales Ferry, Conn., 2 cock, 3 ckl., 1 pen; M. E. Church, Waterford, Conn., 2 ckl., 1 plt.; Rev. C. T. McCann, 1-3-4 cock; Leonard F. Williams, Waterford, Conn., 1 hen, ckl.

S. C. RHODE ISLAND REDS—Henry Rhodes Palmer, Stonington, Conn., 1-3 cock, 2 ckl., plt.; W. H. Bunastead, Stratford Springs, Conn., 1 ckl.; B. B. Munger, East River, Conn., 2 cock, 1 hen, 4 pen; Rev. C. T. McCann, 4 ckl., 1-3-4 plt., 1-2-3 pen; Joseph Lee, New London, Conn., 2 hen, 3 ckl.; F. W. Compstone, New London, Conn., 4 cock; D. F. Cole, Groton, Conn., 3-4 hen.

R. C. RHODE ISLAND WHITES—Geo. E. Harvey, Wakefield, R. I., 3 ckl., 2 plt.; Chas. E. Beebe, Waterford, Conn., 2 ckl.,

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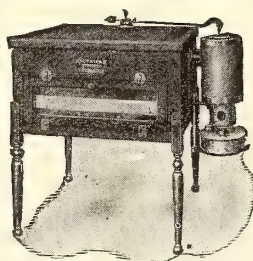
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BUFF ROCKS—Paul W. Noyes, Waterford, Conn., 1 cock, 2 hen; Morris B. Nichols, Shelton, Conn., 2 ckl., plt.; Lange & Co., Bellows Falls, Vt., 2 cock, 1 hen, ckl., plt., pen.

BARRED ROCKS—M. M. Thomas, New London, Conn., 4 cock, 2-3-4 hen, 1 ckl.; H. D. Lovett, Groton, Conn., 3 cock; Thomas Kaneen, New London, Conn., 2 ckl.; Chas. R. Noyes, Black Hall, Conn., 1 cock, plt., hen, 4 ckl.; Ray Lewis, New London, Conn., 3 ckl., 2-3 plt, 1 pen; R. J. Shevlin, Groton, Conn., 2 cock.

WHITE ROCKS—Joseph Linzen, Mystic, Conn., 2 hen, 3-4 ckl.; John H. Northrup, Apponaug, R. I., 2-3-4 cock, 1-4 hen, 1 ckl., plt., pen; Branford Farms, 1 cock, 3 hen, 2 ckl., 2-3-4 plt., 2-3 pen; F. L. Robinson, Norwich, Conn., 4 pen.

PARTRIDGE ROCKS—R. D. Johnson, Groton, Conn., 1 cock, 1-2 hen.

WHITE WYANDOTTES—Edward Yost, Jr., Pease Dale, R. I., 2 cock; Olie H. Gates, Manchester, Conn., 4 ckl., 1 plt.; L. F. Williams, 3 cock, plt., 2 hen; Thos. W. Wilson, Manchester, Conn., 1 hen, ckl.; Chas. R. Noyes, 1 cock, pen, 3 hen, 2-3 ckl., 2 plt.

BUFF WYANDOTTES—Geo. E. Harvey, Wakefield, R. I., 2 hen, ckl.; Edw. Yost, Jr., 3 ckl.; J. H. Clark, West Pawlett, Vt., 1 cock, hen, ckl., plt., pen.

PARTRIDGE WYANDOTTES—Geo. R. Swain, 3 cock, 2 hen, pen, ckl., 1-3 plt.; Peter T. Byrnes, Wickford, R. I., 1-2 cock, 1-3 hen, ckl., 2 plt., 1 pen.

COLUMBIAN WYANDOTTES—Geo. R. Swain, 1 cock, 3 hen; C. H. Denison, Mystic, Conn., 2-3-4 cock, 1-2-4 hen, 1-2-3 ckl., plt., 1 pen; Dr. E. C. Chipman, New London, Conn., 2 pen.

BANTAMS.

Golden Sebright, Roy Bell, Wakefield, R. I., 2 cock, 4 hen, 1 ckl.; Harry E. Smith, Middletown, Conn., 1-3-4 cock, 1-2-3 hen, plt., pen, 2-3 ckl. **Silver Sebright**, P. T. Byrnes, 1 cock, ckl., plt., 1-2 hen. **Buff Cochins**, Roy Bell, 2 cock, ckl., 2-3 hen, 3 plt.; Harry E. Smith, 1-3-4 cock, 1-4 hen, 1-3 ckl., 1-2-4 plt., 1-2 pen. **Black Cochins**, Roy Bell, 1 cock, hen, ckl., plt., pen. **White Cochins**, Roy Bell, 1 cock, hen; Eugene Lealy, New London, Conn., 1 pen. **R. C. Black Cochins**, Roy Bell, 1 cock, hen. **Jap. White**, Roy Bell, 1-2 hen, plt. **White Pekin Ducks**, Robt. Whittle, Mystic, Conn., 1 old drake, old duck, yng. drake, 2 yng. duck, 1 pen; Allen R. Griffith, Noroton, Conn., 3 yng. drake, yng. duck; Wm. Ziegler, Noroton, Conn., 2 old drake, old duck, yng. drake, pen, 1 yng. duck.

AWARDS AT BARNES COUNTY CORN SHOW.

Held at Valley City, N. D., O. A. Barton, Sec.

BUFF ORPINGTONS—J. H. Buckwalter, Cleveland, 1 cock, ckl., 2-3 hen, 1-3 plt.; Mrs. A. H. Anderson, Valley City, 2 cock, 1-3 hen, 4 ckl., 2-4-5 plt., 1 pen; E. J. Blumen-shine, Valley City, 5 hen, 3-5 ckl.; James Shaw, Logan, 2 ckl.

WHITE ORPINGTONS—E. L. Kellogg, Cleveland, 1 cock, hen, 1-2 ckl., 1 plt.; W. C. Dagner, Wheatland, 2 cock, hen.

BLACK ORPINGTONS—E. L. Kellogg, 2 cock, 1-2 hen, plt., 1 ckl.; E. J. Blumen-shine, 3 hen.

BUFF WYANDOTTES—Geo. E. Tenney, 1 cock, pen, 1-2-3-4-5 hen; Vernon E. Grant, Cuba, 2-3-4-5 cock, 1 ckl., 1-2-3 plt., 2-4 pen; W. N. Palmer, Valley City, 2 ckl., 4-5 plt., 3 pen.

PARTRIDGE WYANDOTTES—Geo. W. Walton, Velva, 1 cock, 1-2-3-5 hen, 1-2 ckl., pen, 1-2-3-4 plt.; Clinton Blocher, Kensal, 2-3 cock, 4 hen, 5 plt.; J. H. Whitcher, Valley City, 3 cock, pen.

WHITE WYANDOTTES—M. C. James, Valley City, 1-2 cock, 1-5 hen, 1-2-4 ckl., 1-2-3-4-5 plt.; J. N. Hesch, Valley City, 3-5 cock, 3 hen, pen; R. L. Brown, Valley City, 4 cock; C. J. Buck, Enden, 2 hen, 3-5 ckl.; James Shaw, 4 hen; Fred Getchell, Valley City, 4 pen.

BARRED ROCKS—Chas. E. W. White, Valley City, 1 cock, ckl., pen, 1-2 plt.; W. A. Splittstoessen, Bowden, 2 ckl., 3-4-5 plt.

WHITE ROCKS—O. A. Barton, Valley City, 1-2-3-4-5 cock, 1-3-4 hen, 1-2-4-5 ckl., 1-2-3-4 plt., 1-2 pen; Mrs. Mike Martinson, Dazey, 3 ckl., 4 pen; Mrs. Gust Knutson, Dazey, 2-4 pen, 5 plt., 3 pen; Mrs. G. A. McCready, Cuba, 5 hen, pen.

S. C. RHODE ISLAND REDS—J. G. Lat-ta, Wheatland, 1 cock, pen, 1-2 hen, 1-2-3 plt., ckl.; E. G. Boynton, Leal, 4 ckl., 4-5 plt.

R. C. RHODE ISLAND REDS—W. E. Shrum, Valley City, 1 cock, pen, 1-2-3-4 hen; L. B. McMullen, Valley City, 2 cock, 3-5 hen, 3 plt., 3-4 pen; C. A. Spokley, Oriska, 1-2 ckl., 1-3 plt.; J. B. Meyer, Valley City, 3-4 ckl., 2-4 plt., 2 pen; J. F. Martin, Chaffee, 5 ckl.

S. C. RHODE ISLAND WHITES—Glenn A. Hanna, Valley City, 1-2-3 ckl., 1-2-3-4 plt., 1 pen.

R. C. RHODE ISLAND WHITES—Glenn A. Hanna, 1 ckl., 1-2 plt.

S. C. WHITE LEGHORNS—C. C. Chaffee & Son, Valley City, 1-2-3-4 cock, 1-2-3-4-5

hen, 2 plt., 1-2 pen; James Shaw, 5 cock; W. E. Shrum, 1 ckl.; L. P. Nielson, Valley City, 2 ckl., 3-4 plt.; E. G. Boynton, 3 ckl., 1-5 plt., 3 pen; Catherine McMullen, Valley City, 4 ckl.

S. C. BROWN LEGHORNS—Mrs. John Mortenson, Luverne, 1 ckl.

R. C. BROWN LEGHORNS—Mrs. John Mortenson, 1-2-3 ckl., plt.; R. H. Gould, Valley City, 1-2 hen.

R. C. WHITE LEGHORNS—Elmer Nor-gaard, Valley City, 2-3 ckl.; W. E. Shrum, 1 cock, 1-2-3-4 hen, plt., 1-2 pen, 1-2-3 ckl.

BLACK LANGSHANS—Thomas J. Couch, Grand Forks, 1-2 cock, 1-2-3-4 hen, ckl., 1 pen; M. T. Miller, Luverne, 3 cock, 1-2 plt.

BUFF COCHINS—W. C. Dagner, 2-3 cock, 1-2-3-4 hen.

WHITE COCHIN BANTAMS—E. J. Blumen-shine, 2 cock, 1-2 hen.

R. C. BLACK BANTAMS—E. J. Blumen-shine, 1 cock, hen, plt.

GOLDEN SEBRIGHT BANTAMS—M. C. James, Valley City, 1 cock, ckl., 3 hen, 1-2 pen; E. J. Blumen-shine, 2-3 cock, 1-2 hen.

LIGHT BRAHMAS—Elmer Morgan, Valley City, 2 ckl., plt.

SILVER CAMPINES—E. J. Blumen-shine, 1 cock, hen.

HOUDANS—E. J. Blumen-shine, 1 cock, pen, 1-2-3-4 hen.

S. S. HAMBURGS—1 cock, 1-2 hen.

GOLDEN POLISH—E. J. Blumen-shine, 1 hen.

BRONZE TURKEYS—J. H. Whitcher, 1 tom, hen.

TOULOUSE GEESSE—M. T. Miller, 1 gan-der, 2 goose; Glenn A. Hanna, 2 ga.-der, 3 goose; Mrs. John Mortenson, 3 gander, 1 goose.

PENCILED INDIAN RUNNER DUCKS—E. J. Blumen-shine, 1 drake, 1-2 duck.

GRAY CALL DUCKS—E. J. Blumen-shine, 1 drake, 1-2 duck.

WILD MALLARD DUCKS—E. J. Blu-men-shine, 1 drake, duck.

WHITE PEKIN DUCKS—Mrs. Gust Knut-son, 1-2 ckl., plt.

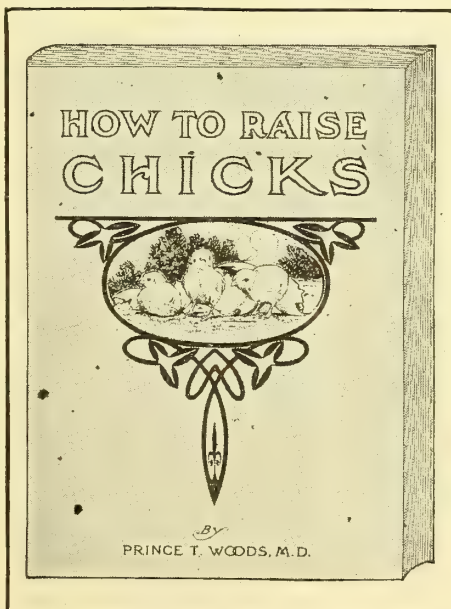
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"WHY I BREED SINGLE COMB BLACK MINORCAS."

Can You Remember When You Bought Cabbage by the Head and Apples Two for Five?—Have You Bought Either Lately?—Eggs Should Be Quoted by the Pound and the Time Is not Distant When They Will Be Sold that Way.

By DEAN HARR, Wichita, Kas.

THIS is the day of specialists. The "Jack of All Trades" is a thing of the past. Poultry farming is specialty farming. Egg farming is specializing in one detail of poultry farming. Therefore, in selecting the Single Comb Black Minorcas I feel I am specializing in one branch of specialty farming.

Having eggs for my goal, I selected a non-sitting Mediterranean breed which is acknowledged a laying breed. Knowing that one necessarily has to dispose of culls, old stock, etc., I selected the S. C. Black Minorca I cause they have the weight of the larger breeds combined with the egg laying capacity of the smaller breeds. They dress white and the meat is sweet and well flavored and commands the top price on the market. Unlike the Leghorn and other fowls of the laying breeds, when you kill a Minorca broiler, fryer or old bird, you have a large, well-meated fowl for your table.

I have heard and read objections to the black-feathered fowls, on the grounds that the pin feathers are hard to get out, and the picking is difficult. The color of the feather has nothing to do with the removal of the feather, and I am inclined to believe there is a little laziness behind this assertion. I will admit a black pin feather is easily seen and for this reason must be gotten out, while white ones may possibly be left in and not noticed. But when you eat that good "chicken pie" you do not eat as many pin feathers, as they were black and had to be removed.



Meat Scraps. Most of that fine meat dust you usually find in meat scraps has been sifted out.

Mostly coarse, hard, gritty and nourishing food is left.

That's why they go twice as far and cost less in the end for you to feed.

"Magic" Meat Scraps Contain 55% Protein

Before you buy meat scraps or a meat food of any description, write for samples of "MAGIC" Meat Scraps. Compare them with any others.

See for yourself why "MAGIC" goes farther and makes your hens lay more eggs. Write today for sample, price and name of dealer nearest you. We sell direct where we have no dealer.

Chicago Feed & Fertilizer Co.
Dept. 20, 810 Exchange Ave.
Union Stock Yards Chicago, Ill.

"Makes Hens Lay"—Better

Can you imagine anything prettier than a flock of Single Comb Black Minorcas with their beautiful green sheen, large white oval ear lobes and magnificent blood red combs and wattles? And when the Minorca hen announces the glad tidings that an egg has been deposited in the laying house, you do not find a little undersized, discolored egg, but a fine, large, white one that at times will rival the duck egg in size, and which tips the scale beam heavier than does the egg of any other hen.

Can you remember when you used to buy cabbage by the head and apples, two for five? Have you bought either lately? The grocer saws two, three or five cents per pound now. This is right. Eggs should be quoted by the pound, and I believe the time is not far distant when we will buy them that way. When this happy thought materializes, the breeders of Single Comb Black Minorcas will reap the harvest that they justly deserve.

The broiler specialist and the fancier can find no breed that will come as near meeting all requirements as does the Minorca. The young stock develops rapidly, is easily fatted and conditioned for the market. The capon can be made to weigh from fourteen to sixteen pounds. Can you imagine this of a Leghorn, which is the only breed that can compete with the Minorca in egg production?

The Minorca will quickly adapt itself to free range or the city lot. It is not difficult to keep them confined, as they show no tendency to fly as long as the comforts and necessities of life are furnished. In fact as a breeder of Single Comb Black Minorcas, I know of no desirable quality they do not possess, except for the fellow who wants a setting hen, and he will have to look elsewhere for the lice-breeding setter.

"WHY I BREED SINGLE COMB BLACK MINORCAS."

They Are a Combination of Beauty and Utility, in Fact, the Weighing, Laying, Winning, Paying Breed of the Age.

By P. H. SCATES, Martin, Tenn.

SEVERAL years ago when quite a lad, I had some experience with a flock of mongrels belonging to my mother, and by studying carefully the poultry papers that came to my hands, I soon succeeded in bettering the flock as far as egg production was concerned, but I saw that in order to produce results worth while I would have to have a breed that would respond more readily to the attention given it, and one that was naturally an egg-laying breed.

I induced my mother to make a purchase of Barred Plymouth Rocks. A neighbor had White Rocks, and another neighbor had Rhode Island Reds, so I took careful note of each of these flocks with the aid of my neighbors telling their experiences with them, and I still felt dissatisfied with these breeds. About this time I decided to purchase a setting each of S. C. B. Minorcas and of S. C. W. Leghorn eggs. I had fine success hatching both of these varieties, kept them separated while grow-

ing, and bred from them both when matured, carefully noting results all the time. I found that on the same amount of food, the Minorcas laid as well as the Leghorns and weighed more than the Leghorns, Rocks, Reds or Wyandottes, so I sold all except some fine specimens of Minorcas, and purchased additional stock from a well-known breeder of this variety, whose strain was noted for their egg-laying ability as well as their beauty and prize winning qualities.

I have heard it said by those who do not know Minorcas that they are wild, but I find them as gentle as Rocks and they respond to good treatment as well as the most domesticated breeds. I can feed them as much as they will eat, and then instead of turning it all into fat and standing around in the sunshine, they shell out the eggs. Whereas if the same food was given one of the less active breeds, they would get so fat they would not lay at all.

I can imagine no more beautiful sight in the poultry line than a thoroughbred flock of Single Comb Black Minorcas with their red combs, white ear lobes and glossy greenish black coat of feathers. I have found that by starting right with good stock I find less culls among Minorcas than any other breed I have attempted to raise. Minorca eggs command a premium on the local market of 20 per cent, as they weigh fully 33 1-3 per cent more to the dozen than do the ordinary eggs.

I have a friend who has several hens six years old that are now laying better than the dunghill pullets found in ordinary farm yards.

If you raise the S. C. B. Minorcas, you get as many eggs as from the most widely-known varieties of egg-laying breeds; the eggs you get weigh more. The Minorca weighs eight pounds when you get thru with her and want to put her on the market; while Leghorns I have had experience with do well to average three and one-half pounds.

The Minorca is a hardy chick, quick in growth. They make fine fryers, roasters, or broilers because of their tender, fine grained white meat.

Some folks kick because they do not like to dress a black chicken. Personally I would rather have a black one because my experience has been that with white or light feathered chicks we eat the feathers we do not see, while with the black-feathered varieties, we see them and remove them.

For the farm flock or the city back lot fancier, the Minorca cannot be beat. For the egg farm the Minorca cannot be beaten because when their egg-laying days and time of usefulness is over, you have the weight to sell and not a handful of feathers. This will more than offset the difference in food and if the eggs are for personal use, eight Minorca eggs will weigh as much as one dozen Leghorn or Rhode Island Red eggs. If fortunate enough to live near a good market, the large white Minorca eggs will bring a premium.

As for beauty, just go to some good show where there are good Minorcas on exhibition and you will have to admit that the looks are there.

They are a combination of beauty and utility, and in fact the weighing, laying, winning, paying breed of the age.

CHAMPION S. C. W. LEGHORNS

Cockerels and Pullets for sale bred direct from the World's Champion Pen composed of ten hens. They have size, health and are guaranteed satisfactory. Write today.

M. H. WAUGH

511 LOUCKS AVE., PEORIA, ILL.

Associations and Shows

Secretaries are Requested to Send in News Items of Interest About Their Shows for This Department

PITTSBURGH SHOW.

The premium lists for Pittsburgh are now being mailed to every name we have on our mailing list. We do not send them promiscuously over the country, but we do send 5,000 copies to interested, hustling breeder-exhibitors who, if any way is found possible, will make a visit or an exhibit in Pittsburgh.

Many innovations will be in order. Among them will be the giving of gold watches instead of cups in all classes warranting the offering of so valuable a special.

Never before was there so much poultry enthusiasm and money in Pittsburgh as there is at this time. War orders have put money in every man's pocket and when these men happen to be poultry fanciers, it comes out again for birds and eggs.

Among other things urged in this year's premium list is the pricing of birds at an amount which fairly represents their value. Each year, many sales have been lost thru birds having been priced at fabulous amounts and their owners not being with their exhibits to lower the price to clinch a sale.

John G. Spencer, well known to show goers as the manager of Schenley Heights Poultry Farm, will serve as show superintendent.

We have not engaged all the judges in the country, but we have selected an extremely strong list, as follows:

W. H. Card, Maurice F. Delano, A. Fred Kummer, W. C. Pierce, H. P. Schwab, Len Rawnsley, J. Courtney Punderford, M. L. Chapman, Fred H. Cook, J. H. Eriser, Wm. F. Auerswald, J. N. Hazlett, J. H. Lewis, Geo. MacDonald. Come to Pittsburgh the week following Boston and we will guarantee you a time never to be forgotten. If your name is not on our mailing list, write at once. E. F. Baldwin, secretary, Crafton Station, Pittsburgh, Pa.

POULTRY WEEK AT OHIO STATE UNIVERSITY.

A very instructive and interesting program has been arranged for farmer's week to be held at Ohio State University, Columbus, January 31st to February 4th, 1916.

Many of the country's best informed and well-known speakers will lecture at this gathering. Principally among them is Prof. James E. Rice, Cornell University; S. T. Campbell, of Mansfield, O., secretary of the American Poultry Association; Charles McClave, New London, O., one of the country's best known judges; Henry Brownell, of Washington, O.; Freeman S. Jacoby, professor of poultry husbandry at the Ohio State University, and Milligan C. Kilpatrick, instructor at the same institution.

The subjects assigned to these well-known men are, indeed, interesting and instructive, and all who can possibly arrange should attend thruout the week.

Another interesting feature will be the Egg Show. Special premiums will be awarded the best eggs on display.

Another very important and instructive part of the program will be the moving pictures and lecture by Prof. Alford Vivian, showing slides made from 3,000 photographs, taken in traveling 42,000 miles while viewing twenty-one countries from a farmer's standpoint.

Practically all the buildings at the university will be utilized for this particular event. All lectures and entertainments are free.

Accommodations for room and board may be secured at reasonable rates.

It is earnestly desired that all farmers, in fact, every man and woman in this part of the country interested in poultry culture, will plan to attend thruout the entire week.

DAYTON, OHIO, SHOW.

Frank C. Stier, Pres., of the Ohio Poultry Breeders' Association, kindly prepared the following interesting account of the Dayton Show:

The most successful exhibit of The Dayton Fanciers' Club took place December 8 to 13, over 1,200 birds being shown. The State Meet of The Ohio Poultry Breeders' Association was held in connection, which naturally brought many state exhibitors and excellent quality. The American Poultry Association gold medal for best cockerel was awarded to a superb White Leghorn,

property of Bens & Tisdale. The \$10 in gold offered by The Ohio Poultry Breeders' Association for best pullet in show was awarded to a most handsome Light Brahma, property of Chas. McClave. The meeting of The State Association was perhaps the largest and most enthusiastic of any winter meeting, about 100 members being present, with Pres. F. C. Stier presiding. Plans for great activity thruout Ohio during the coming year were formulated. The most encouraging feature at the show was that over 100 new members were enrolled in the State Association under the new ruling of annual dues for all members.

SEEN AND HEARD.

At the Cuyahoga Falls (Ohio) Show, we found a strong up-to-date organization and everything was run very smoothly.

W. F. Shultz served as secretary, Chas. Gray, supt., F. H. Ricketts judged and his work was exceedingly good and created much favorable comment. His great willingness to explain the reason for his decision seemed especially to appeal to them.

White Leghorns had the honor of making up the largest class in the show, fifty-two birds were entered and the quality averaged high. White Wyandottes were second in numbers and consisted of fifty-one birds. The winners were first-class. One of the best White Wyandotte males in the show was in a pen that was disqualified because one of the hens had no spike in comb. Barred and Buff Plymouth Rocks, moderate sized classes of fair quality.

The first prize Buff cockerel, altho undeveloped, is a very promising bird, very good in color. The first White Rock cockerel is also worthy of special mention.

Buff Wyandottes, small class in numbers, but quality first-class, 2nd hen fine uniformity of surface color, but lost to first on type. Partridge Wyandottes, small but good class.

R. C. Reds were in evidence with a fair sized class and competition was quite keen, winners good. S. C. Reds were conspicuous by their absence.

S. C. and R. C. Brown Leghorns, Buff Leghorns, S. C. Black Minorcas, Andalusians, Golden Campines, were represented by fair sized classes and quality of most of the winners was good. The winning R. C. Black Minorca cockerel shows great promise. He was quite undeveloped, but he has the making of a real good one.

Noticed some nice White Orpingtons among the winners: in particular the first prize cockerel, a real classy bird in type and color. The second cockerel was fine in type, but lost to first on color. A fair sized class of Buff Orpingtons. The first pullet was a real nice in surface color. A small but good class of Dark Cornish were shown. Sussex were represented by a Red cock and hen of good quality.



Of all breeds of poultry none will stand the test of record keeping better than S. C. White Leghorns.

Leghorns Are Money-Makers

They are recognized everywhere as the commercial hen. They lay well in winter, and cost little to raise. They produce more eggs and meat per pound of feed than all other breeds. They are winners in all of the egg-laying contests. Among White Leghorns, Yesterlaid Range-Raised Laying Leghorns are the strain supreme, so recognized by twenty-two state institutions and experiment stations, which purchased Yesterlaid stock or eggs. Yesterlaid Leghorns are record-makers. All eggs or chicks have ancestral blood records like these: Laying at 4½ months; 260 eggs a year; 443 eggs in two years. Literature free, giving information on growing, feeding and handling Leghorns.

YESTERLAID EGG FARMS COMPANY Dept. 5 PACIFIC, MO.

LEADING WINNERS AT WORLD'S FAIR, SAN FRANCISCO

Harnly's WHITE ORPINGTONS

Grand Championship Male and First Prize Pen. Second Hen and second Pullet.

14 Harnly White Orpingtons in ribbons at PANAMA-PACIFIC INTERNATIONAL EXPOSITION. Won 127 prizes from Sept. 1st, 1914, to Sept. 1st, 1915. 44 Firsts, including, Championship Male Chicago Coliseum Show. Some magnificent stock for sale. Write your wants and I will give you a real bargain. Satisfaction guaranteed or money refunded in full.

EGGS— Book your orders now so you will not be disappointed. Mating list free —EGGS

MRS. J. H. HARNLY - 2301 ELISHA AVENUE - ZION CITY, ILLINOIS

A MEETING OF THE CAMPINE CLUB.

The American Campine Club held its fifth annual meeting at the Coliseum Show, Chicago, December 13th, 1915. It was well attended and the following officers elected for the ensuing year: President, M. R. Jacobus, Ridgefield, N. J.; first vice-president, N. E. Luce, Glendale, Cal.; second vice-president, Dr. J. H. Frudhomme, Thurmont, Md.; secretary and treasurer, Mrs. Chas. H. Owings, Dumont, N. J.

The executive board members are: C. A. Phipps, Wayland, Mass.; S. V. R. Martling, Ridgefield, N. J.; Mrs. A. A. Carver, Seville, O.; together with the president and secretary.

Much enthusiasm was shown thruout the meeting and many new plans made for the coming year. A club catalog will be issued early in the season which will surpass any former edition. The club now has about 650 members and is in a most prosperous condition.

THE FANCIER'S FOWL.

If you are not already a breeder of Golden Penciled Hamburgs, possibly you are an admirer and a prospective breeder.

In either case, I wish you would be kind enough to co-operate with me in the organization of the Golden Penciled Hamburg Club which will take place at Madison Square Garden, January 3rd, 1916, at 7:30 p.m.

It will cost you only \$1.00 initiation fee, which will include your first year's dues, and you must be a member of this club to compete for the fine list of specials which are being offered.

Send in your name and remittance promptly to me and oblige,
Little Silver, N. J. John A. Gamewell.

AMERICAN BUCKEYE CLUB MEMBERS.

I want to thank each and every member of the American Buckeye Club for the honor they have bestowed upon me. I make you this promise, that I will do all within my power to further the best interest and help elevate the standard of the breed. Let every member join hand in hand and make the American Buckeye Club one of the strongest in America. Fraternally, H. W. Deem, secretary and treasurer American Buckeye Club.

HARTFORD, WIS., ANNUAL SHOW.

The Hartford Poultry and Pet Stock Association, A. L. Kissel, secretary, will hold their annual show at Hartford, Wis., February 1-6. Geo. M. Wells will place the awards. Cups valued at \$35 to \$50, and \$100 in gold specials are some of the premiums offered. A. P. A. rules will govern. Entries close January 25th.

A Message for YOU

A Guide to Success With Poultry

And all of you need it—the fancier, the market poultryman, the expert and the amateur.

Paper Bound 50c Cloth 75c

It is with a great amount of pleasure that we announce to our readers and the poultry world in general, the purchase of that famous book

999 QUESTIONS and ANSWERS

It is the one book that covers the poultry industry like the sky covers the earth. No matter what question arises, this book gives you the answer.

It eliminates theories—and gives you “hard, cold facts”—positive conclusions arrived at by the actual experience of the most noted of poultry authorities and the world’s most successful breeders.

The form adopted for this book—namely, questions and answers, meets popular demand—it gives you the desired information in a few words and right to the point.

You will find 36 pages devoted to the fancier—7 pages to eggs—12 pages to proper feeding—5 pages to the correct rearing of chicks—6 pages as to what and just how to build—14 pages to that ever-important factor in your success or failure, diseases—12 pages on natural and artificial incubation and brooding—4 pages devoted to turkeys, ducks and geese—besides 33 pages devoted to miscellaneous questions and answers, the ever important little things that come up from time to time.

In fact, you will find it complete and the correct answer to one of the many problems that confront you during the year, will more than pay for the cost of this, the greatest of all poultry books.

Having purchased this book outright, we desire to give our many readers the benefit of same—therefore, if you send in \$1.25 we will send you a paper bound copy of this great book, “999 Questions and Answers,” and also enter your name to ONE year’s subscription to the “One Great Poultry Paper of America,” the American Poultry Journal—the paper that prints all of the poultry news, while it is news. If you are a subscriber at present—the new subscription will start at the expiration of present subscription. If you wish cloth bound, send \$1.40, Canadian subscribers add 25 cts. for postage. Foreign, 50 cts. If you just want the book, paper bound is 50 cents and cloth bound 75 cents.

American Poultry Journal Publishing Co.
542 S. Dearborn Street, Chicago, Illinois

ATTENTION SECRETARIES OF WISCONSIN, MINNESOTA AND ADJOINING STATES.

We just received a letter from Secy. Wm. H. Hoeschler to the effect that he is trying to get the various secretaries of Wisconsin and Minnesota together for mutual benefit of each association.

By so doing show dates could be arranged without conflicting, especially where exhibitors have been in the habit of making certain shows, but on account of frequent conflicting dates had to give up one or the other.

Also the names of exhibitors could be exchanged, thus offering a first-class mailing list of actual exhibitors without much loss of postage on dead names.

A great deal of benefit could be gained by co-operation and all this could be easily handled thru the mails without extra expense of railroad fare unless it should be agreed upon by the majority to have a meeting each year at some centralized city, but this could be decided later.

Any of the other adjoining states are invited to co-operate.

Secy. Wm. H. Hoeschler of La Crosse, Wis., would be glad to hear from the secretaries in order to have their opinion on this matter before dates are set for the 1916 shows.

AMERICAN BARRED PLYMOUTH ROCK CLUB MEET.

The national meeting of the American Plymouth Barred Rock Club will be held in connection with the Greater Chicago Show, January 13-19, 1916. This club has worked up a magnificent list of specials, which total a little over \$350 in cash, and if money counts this should bring out a magnificent exhibit. All Barred Rock breeders should send to the Chicago Poultry Breeders Association, at 921 Advertising Building, for a copy of the premium list, which will give you a full list of these premiums.

NATIONAL WESTERN AT DENVER.

The annual exhibition of the National Western Poultry Show will be held at Union Stock Yards, Denver, Colo., Jan. 17-22, 1916, in connection with the National Western Stock Show. Comparison show, with Tucker and Keeler placing the awards. One hundred thousand visitors from all sections of America attend this show, making it one of the attractive events in poultrydom. More than 90 per cent of all entry fees returned as premiums. Premium list by addressing W. C. Schuman, manager, 400 South Emerson street, Denver, Colo.

NOTICE TO SHOW SECRETARIES.

The Rouen Duck Club of America will offer ribbons on best display of Rouen ducks best old drake, old duck, young drake, young duck, to any show in the United States or Canada, subject to the following rule: Should the ribbon be won by non-member, same will be held until person winning ribbon becomes a member of The Rouen Duck Club of America, providing they do so within sixty days after the show. Please send list of Rouen duck winner to the secretary, Edgar M. Le Baron, Box 48, Mesa, Ariz.

MINORCA SENSATION AT MADISON SQUARE GARDEN.

The largest list of specials ever placed on S. C. Black Minorcas—three hundred and six dollars (\$306)—\$201 in cash, \$105 in cups, to be offered in connection with the annual meeting of the American Black Minorca Club. Pamphlet giving full information now ready. Send for one. Frank McGrann, Secretary, Lancaster, Pa.

CHAMPION LAYER AT MADISON SQUARE GARDEN.

Columbia Queen, champion heavyweight layer (record of 286 eggs), will be on exhibition at the Madison Square Garden Show December 31 to January 5, 1916; will doubtless attract much attention from the many interested in this particular branch of the poultry industry. This record layer is of the Columbian Plymouth Rock variety.

The Golden Wyandotte Breeders and Fanciers have organized a club and have taken the rules and name of the National Golden Wyandotte Club. Everyone interested in this breed should become a member before the new catalogue is issued.

This club is formed to bring together all breeders, and thereby bring this popular variety back in the front ranks of poultrydom.

Ribbons are offered at all shows where three or more members show and state organizations will be formed when ten members from a state enroll. Mail \$1 to the secretary and a membership card will be mailed you. J. S. Pennington, secretary, Plainfield, Ill.

The second annual poultry show of the Delaware County Poultry Association will be held in the Armory at Media, Pa., January 19th to 22d, 1916. Indications are that this show will exceed by a considerable number the entries of last year's most successful show and preparations have been made to take care of about 1,000 entries.

The premium list shows an unusually large and attractive line of specials, together with a considerable number of silver trophies of various kinds and many cash specials. The show last year made an unusual record in the matter of premiums and, in addition, every special was delivered and every winning paid in cash or the check was mailed to the exhibitor before the show closed on Saturday evening.

The show will be judged by H. D. Riley, A. M. Anderson, Prof. F. H. Stoneburn, Thomas G. Samuels and others.

It will pay you to write to Mr. P. G. Platt, secretary, Wallingford, Pa., who will be pleased to forward you a premium list and any other information you may desire.

THE OIL CITY POULTRY ASSOCIATION.

The Pennsylvania State Meet of the Ancona Club of America will be held in connection with the Oil City, Pa., Show, Jan. 12, 13, 14 and 15. There will be \$50 in gold and several handsome cups offered by the association and by individual members. Anconas are coming into favor fast and it is expected that Oil City will have one of the best and largest classes shown this winter. Premium lists ready Dec. 12. Send to Chas. R. Baker, Secretary, for one.

The Pennsylvania State Meet of the American Houdan Club will be held in connection with the Oil City, Pa., Show, Jan. 12, 13, 14 and 15. State cup will be awarded, also a handsome cup for the best color male and one for the best color female, together with cash and specials. Houdan breeders are strong in Pennsylvania and they will be well represented in Oil City and competition strong. Premium list ready Dec. 12. Chas. R. Baker, Secretary.

INTERNATIONAL SINGLE COMB BLACK MINORCA CLUB.

The next meeting of the International Single Comb Black Minorca Club, will be held in connection with the Kansas City Poultry Show, at Convention Hall, Kansas City, Mo., from Jan. 10 to 15, 1916. Mr. E. L. Noyes, 726 Main St., is the Secretary.

At the annual meeting of the National White Wyandotte Club, held in connection with the Greater Buffalo Show, the following named officers were elected for the coming year:

President, John S. Martin, Port Dover, Canada; vice-president, J. W. Andrews, Dighton, Mass.; secretary-treasurer, S. C. Babbie, New Cumberland, Pa. Executive committee, F. B. Williams, Naugatuck, Conn.; Carrington Jones, Buntyn, Tenn.; W. H. Biddle, Tacoma, Wash.; H. J. Riley, Bryan, O.; Roy A. Bisbee, Missoula, Mont.

Reports of the various officers and committees told of the prosperous condition of the club and the wonderful interest being shown in the White Wyandotte fowl.

At this meeting the club so amended its constitution and by-laws that hereafter officers will be elected by a mail vote of all members and not at the annual meeting as heretofore.

The Single Comb White Leghorn Club of Central New York is offering a set of special prize ribbons on S. C. White Leghorns at every show which publishes its notice in the premium list. Show secretaries are requested to write to the secretary of this club for its offer. You can help advance your favorite breed by joining the club. Dues only \$1 a year.

If you are not already breeding this variety but are thinking of taking them up get our catalog and be convinced that we have the best. Sent free. Address Edwin H. Chase, secretary-treasurer, R. D. No. 1, Edmeston, N. Y.

The twenty-first annual exhibition of the Rochester Poultry and Pigeon Association, J. W. Chapman, secretary, Rochester, N. Y., Show, will be held in buildings 3 and 4 at Exposition Park, January 27th to February 4th, inclusive. A number of associations will hold their state meet at this show. Judging from the number of entries coming in, the Flower City Show will make them all take notice this year. The following judges will place the awards: Charles H. Welles, Haldie Nicholson, Charles Nixon, William G. Minich, Charles T. Corman, Wetherell H. Card, Howard L. Young, L. W. Hilkner, James A. Smith, E. S. Wilson, V. A. Kamiensky.

There seems to be quite a revival of the score card system of judging this winter, especially at the smaller shows. The advocates of this system have been strongly urging its merits with the argument that it is more explanatory and instructive to the inexperienced exhibitor. We are watching the results of the more or less re-adoption of the score card.

The annual exhibition of the Fanciers' Association of Indiana will be held at Indianapolis, Ind., Jan. 10-14, 1916. W. C. Pierce, W. W. Zike, Frank Conway and Len Rawnsley, judges. This association is offering the largest number of specials ever offered at any poultry show in connection with the Black Langshan Club Meet. Ten specials will consist of cash, silver cups, medals and badges. The Langshan breeders have always made this one of the largest classes at this show and they expect to have more entries than ever before. The national meet of the Black Langshan Club will be held during the show, also the central meet of the Buff Orpington Club, which comprises the states of Michigan, Ohio, Indiana, Kentucky, Illinois and Wisconsin. This club alone offers four handsome silver cups and this offer is duplicated by the association. The premium lists are now ready for distribution. Write for one to the Secretary, C. R. Milhous, Indianapolis, Ind.

There are just two ways of doing business. One is right and one is wrong. If you know that your product is a needed one, honestly produced and worth what you ask for it; if you realize that those in your employ are a necessary business asset and deserve your earnest consideration; if your customers are your friends—you are on the right road. If on the other hand you are attempting to exchange a worthless article for cash, or do not "deliver the goods" as the saying goes; if you do not consider the welfare of your employees; if you make enemies of your customers, working on the basis that there is a "new sucker born every minute," you are burdening the business world with your presence, and are slated for the toboggan—in other words, you are on the wrong road.

There is one thing which the would-be successful man should learn early in life, which is that it is never the part of wisdom to bank too much on the future for the pleasures which success will bring him. He who does not get the best from present joys, as they are meted out to him, finds the future, no matter to what heights of business success he has climbed, a delusion and a snare. Each day should reap its joys—work well done, lessons learned, service given. The man who lives well his days as they come, early learns how to live, with a lifetime in which to make good use of the knowledge.

BIRDS BARRED PLYMOUTH ROCKS EGGS

Indianapolis, 1914 and 1915 State Champion Cockerel; 1st pen; 2nd pen; 1st cockerel; 1st pullet; 2nd and 3d hen. A limited number of birds for sale.

W. H. Goddard & Sons, Orchard Place, Riverside, Muncie, Ind.

BIRKHOLZ REDS

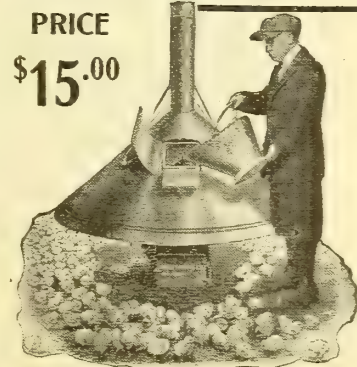
SINGLE COMB—Best color ever. 2 cocks, 15 cockerels must be sold before cold weather sets in; send for prices and description.

ERNST F. BIRKHOLZ, Willoughby, Ohio

PENNINGTON'S GOLDEN WYANDOTTES

in a hot class at the World's Fair at San Francisco, Cal., November 18-25, 1915, won 1st Cock; 2nd Cockerel; 3rd, 6th Hen; 2nd Pullet and 2nd Pen. Every bird was bred by me and has a pedigree record from Chicago winners. I have 150 Golden of this same blood line to sell. Buy a trio or a male of this strain and you will be started right. I also have 80 Buff Wyandottes and Silver Campines at bargain prices. Write for circular.

J. S. PENNINGTON - Box A - PLAINFIELD, ILLINOIS



The Marvel Colony Brooder

For large or small flocks
Coal-burning, Self-regulating.

An efficient heater constructed of heavy castings, with AUTOMATIC control of the drafts. The POUCH FEED is a new and distinctive device.

Send for our free booklet describing the UP-TO-THE-MINUTE methods of brooding with coal burners; the FRESH AIR SYSTEM; the safety, convenience, labor-saving and economy in operation. Learn to brood without loss, making THREE PRODUCERS where only one chick grew before. Let us know your incubator capacity or the number of chicks you want to raise, we can advise you how to get best results. A one-cent postal brings a prompt response.

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(Advertisement)

Lady Eglantine.

The \$100,000 hen is a production founded upon scientific breeding and a righteous following of a perfect strain. That such value is placed upon her is not inconsistent with the results obtained any more than to pay an artist, with a highly cultivated voice, \$100,000 for one year's work. Merit founded upon principles brings its just reward, and it is within keeping that the Hartley Steel Crated Box Company, of Saginaw, Mich., should be awarded, in competition with many others, the order of the Eglantine Farms Company for Hatching Egg Boxes to carry the product of Lady Eglantine and Coops with which to transport her relatives and descendants.

INVEST IN AMERICA'S MOST PROFITABLE INDUSTRY

SAFETY WITH LARGE PROFITS ASSURED
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Willow Tree Poultry

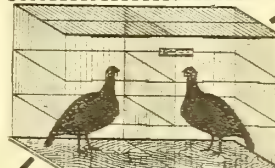
Farm We are quoting the lowest kind of prices on show Leghorns. Let us try for you. Utility Red hens \$1.50. Utility Leghorns \$1.00. Stock \$3.00 and up. Mention A. P. J. H. P. McKean, Jr. BEVERLY FARMS, MASS.



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Highest Prices for Hides.
We always pay 4c per lb.
more for dry hides and 4c per lb.
more for green hides than the prices quoted daily in the Official St. Louis Market Reporter and send you the Proof of this with your money. We charge absolutely no commission. Don't overlook our big offer—we pay you more—we quote only one price—and pay that price. Write for free price-list and shipping tags.
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Show your fowls in our clean and handy, vermin-proof coops. Used by leading fanciers and poultry shows. Finest looking coop on market.

Keipper Collapsible Coops

Made entirely of galvanized wire. Fold perfectly flat. Easily stored. Easy to set up. Shipped by parcel post. Outfits rented to bench shows. Write for catalog and money-saving prices.

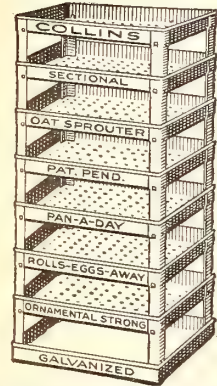
KEIPPER COOPING CO., 1401 First St., Milwaukee, Wis.

THE "COLLINS" IS THE BEST OATS SPROUTER

AND IT'S THE CHEAPEST \$3

You readers of the Am. Poultry Journal know as well as I do that it's essential to feed green food to

Make Your Hens HEAVY Winter Layers



You also know that in the form of sprouted oats you can furnish your hens what they need in the way of fresh, tasty, sweet and wholesome green food, and protein, at **Less Cost** than in any other form. The only point in which you are interested is in knowing which is the most practical, sensible, workable, convenient and satisfactory sprouter. It's the "COLLINS"—made in units, eight individual pans of galvanized steel, 11 x 15 inches, a pan for each day of the week, and a drip pan. These pans fit ingeniously one on top of the other, doing away with the usual frame or stand. The pans are properly perforated to furnish exact amount of drainage to insure sprouting of practically every fertile oat, and to eliminate souring and rotting, and give a more uniform, prolific growth.

For \$3.00 I deliver The Collins Sprouter anywhere east of the Mississippi River, Express or Parcel Post charges paid by me. West of the Mississippi, \$3.50.

Try it ten days, and if it isn't satisfactory ship it back, and I refund your money. Illustrated descriptive booklet free for writing.

We could use a few good agents. Write for territory.

W. H. COLLINS - 336-D Washington Street - NEW YORK

THE UTILITY POULTRY HOUSE and YARD ON ROLLERS

Easily moved about by hand. Dimensions 10 feet by 10 feet.

Accommodates 18 fowls.

Economises space, as the floor partly covers the yard, the roosts are hung above the floor and the nests above the roosts. A small ventilating door at the top insures fresh air.

Floor easily cleaned in one minute with a hoe.

Separate doors and openings to yard, floor and nests.

Moved about a space of ground 15x30 will give the hens fresh green and clean ground all the time, as by the time the house is moved over the ground that it first occupied the grass and weeds will have had time to grow again.

In the winter the snow may be removed from a space and the yard moved over

Protected and manufactured solely by

to the clean ground, preventing snow eating.

Warm in winter, as the house conserves the animal heat to an extent as the ventilating door at the top is closed.

The high pitch of the roof prevents leaks.

Floor above ground shut off at night protects from rats, foxes, skunks, etc.

Provides fresh, clean yard continuously.

Improves trees near which it is allowed to stand.

Fertilizes the ground, keeps chickens out of the garden, as the yard is enclosed at top.

Nests, Roosts, Floor and Yard all combined.

Is in fact positively the best thing in a poultry home for a colony ever put out.

Price—Knocked down F. O. B. Express or Freight, \$8.50.

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THE POULTRY EXCHANGE, Bonair Farm, R. D. 29, STAMFORD, CONN.

S. C. Buff Leghorns

Col. Plymouth Rocks

S. C. White Leghorns

Columbian Wyandottes

S. C. Rhode Island Reds

Hustling Vigorous, Well-Bred Day-Olds

of our famous strains are ready. These baby chicks are from pens carefully mated to secure best results. They are vigorous and healthy and carefully selected for shipping. Behind them is the remarkable utility and show records of older Wilburtha birds. Our lively youngsters give the strongest assurance of future heavy egg producers, and show birds of value. We have also some high bred chicks, from special matings, at attractive prices. Start with Wilburtha baby chicks. We offer also

Eggs for Hatching

selected with the utmost care, carefully inspected for uniformity and fertility, and sold under our liberal guarantee. Safe packing, in our special containers insures delivery in best condition. Wilburtha eggs prove their worth when the hatch comes off.

Make sure of best results this year in your yard. Put in an early order for Wilburtha eggs or chicks. Our new Mating list is ready. Send for it and our handsome catalog.



Chas. J. Fisk, Owner
Box J

Wilburtha
POULTRY FARMS

Trenton Junction,
New Jersey

WINNINGS of A. P. J. ADVERTISERS

Under this heading will be given each month, during the show season, the winnings made by our advertisers, at the various shows, as reported by them.

Henrietta E. Hooker, 3 Park St., South Hadley, Mass., reports the following winnings on her Single Comb Buff Orpingtons at Holyoke, Mass., November 17-19, 1915: Cock, 1-2; hen, 1-2; chl., 1; plt., 1; pen, 1; best display. Judge, Chapin. At Springfield, Mass., November 23-26, 1915: Cock, 1-2; hen, 1-3; chl., 2; pen, 1; special shape and color on males and females. Special for best display, On Blue Orpingtons, at Springfield: Hen, 1-3; plt., 1-3; pen, 2. Judge, Richard Oke.

Fernbrook Farm, Menands Road, Albany, N. Y., reports the following winnings on their White Wyandottes at National White Wyandotte Club meet, Buffalo, N. Y., November 22-27, 1915: Cock, 2; hen, 1-2-4-6; plt., 3-4-6; 1st old pen; 1st young pen; cash specials of \$65; special for best display. Judge, J. W. Andrews, Dighton, Mass.

F. W. C. Almy, Tiverton 4 Cor., R. I., reports the following winnings on his R. C. Reds at Providence, R. I., November 30-December 4, 1915: Cock, 1-2-3; hen, 1-2-3; chl., 1-2-4; plt., 1-2-3; pen, 1; all specials. S. C. Cock, 2; hen, 1; shape and color; chl., 4; plt., 5; pen, 2; \$100 journal cup for the third time and now owns it; state cup for display for the eighth successive time. Judge, Daniel P. Shove.

McDonough & Bidwell, Newark, N. Y., report the following winnings on their Silver and Golden Campines at Buffalo, N. Y., November 22, 1915: Cock, 1; hen, 1; chl., 1; plt., 3; pen, 1. Judge, F. L. Platt. Black Langshans: Cock, 4; hen, 2; plt., 2. Judge, F. G. Bean. White Faverolles: Cock, 3; hen, 4. Judge, F. W. Conway.

Sunnyside Poultry Farm, Bristol, Vt., reports the following winnings on their Buff Rocks at Conn. Valley Show, Bellows Falls, Vt., December, 1915: Cock, 4; hen, 1; chl., 1; pen, 1-5; silver cup; best display; Buff Rock Club cup; \$5 special best chl. and pen; \$2 best chl. and plt.; club shape special. New York State Fair; Ckl., 1-5; 2nd young pen; 5th old pen. White Rocks: Cock, 1; chl., 2; plt., 2; silver cup; best display; \$5 best cock and hen; special best chl. and plt. Judge, Paul Ives.

Thornycroft Buff Leghorn Farm, Washington, Pa., reports the following winnings on their S. C. Buff Leghorns at New York State Fair: Cock, 1; hen, 1; 2nd young pen; 2nd old pen; 22 pens competing; shape and color specials on male and female; silver cup for best cock, hen, chl. and plt. Judge, T. P. Graham.

Oscar L. Bock, Council Bluffs, Iowa, reports the following winnings on his White Wyandottes at Omaha, Neb., November 24-28, 1915: Cock, 1-4; hen, 1-3; chl., 2-3-4-5; plt., 3; pen, 1-3. Judge, Thos. Southard.

Eugene Smith, 317 Galena Blvd., Aurora, Ill., reports the following winnings on his S. C. White Leghorns at World's Fair, November, 1915: Hen, 5; chl., 6-8; plt., 2-4; pen, 2. Judge, Rice.

Hough Egg Farm, Far Hills, N. J., reports the following winnings on their S. C. White Leghorns at Morristown, N. J., November 23-27, 1915: Cock, 1-2-4; hen, 1-2-3-4; chl., 1-2-4; plt., 2; pen, 1-2. Judge, Floyd M. Hallenbeck.

C. S. Wetmore, 906 Abbott Rd., Lackawanna, N. Y., reports the following winnings on his White Wyandottes at Buffalo, N. Y., 1915: Cock, 5; hen, 7; 2nd young pen; 3rd old pen; National White Wyandotte Club Meeting at Buffalo, N. Y. Judge, J. W. Andrews.

Bella Vista Farm, Kimmswick, Mo., report the following winnings on their S. C. White Leghorns at Big St. Louis Fair, October 4-9, 1915: Cock, 1; hen, 1-2; chl., 4; plt., 2-3; pen, 1-3. Judge, Theo. Hewes.

Dr. Woolfolk Barrow, 663 Elmsmere Park, Lexington, Ky., reports the following winnings on his S. C. White Leghorns at Memphis, Tenn., 1915: Cock, 5; hen, 3; chl., 2-5; pen, 1-5; champion White Leghorn cockerel; grand champion cockerel of all varieties; Kentucky State Fair, 1915: 1st pullet won special for best pullet in show. Judge, Pickett. Chattanooga Poultry Show, 1915: Cock, 2; hen, 1-2-5; chl., 1; plt., 4-5; pen, 2-4; best White Leghorn hen; best solid colored male; 20 shown, 18 winners.

Sunswick Poultry Farm, Rufus Delafield, Prop., South Plainfield, N. J., reports the following winnings on their S. C. Buff Orpingtons at Syracuse, N. Y., September 15, 1915: Cock, 1-2-3; hen, 2-4; ckl., 1-2-4; plt., 1-2; 1st young pen; 1st old pen; best display S. C. Buff Orpingtons; best display in the English Class. Judge, Haldie Nicholson. The Great Hagerstown Fair, Hagerstown, Md., October 12, 1915. Cock, 1-2-3; hen, 4-5; ckl., 1-2-3-5; plt., 1-2-4; 1st young pen; 1st old pen; best S. C. Buff Orpington. Judge, Oke. Buffalo Poultry Show, Buffalo, N. Y., November 23, 1915: Cock, 1-3; hen, 1-2; ckl., 1-2-4; plt., 2-3; 1st young pen; 1st old pen; best display; best cock, hen, ckl. and plt.; best pen in show; largest display. Judge, Len Rawnsley.

Carr Bros., Vineland, N. J., report the following winnings on their White Wyandottes at Bridgeton, N. J., November, 1915: Cock, 1-2; hen, 1-3; ckl., 1-4; plt., 1-2; pen, 2. Silver cup for best display of all Wyandottes. Judge, Koons.

The Maples Poultry Yards, Groton, N. Y., report the following winnings on their Speckled Sussex at Buffalo, N. Y., November 21-27, 1915: Cock, 1; hen, 1; plt., 1; two specials. Judge, Frank Conway. Silver Campines: Ckl., 2-4; plt., 2. Judge, Frank Platt.

A. F. Almendinger, 61 Inwood Place, Buffalo, N. Y., reports the following winnings on his Rose Comb White Leghorns at Buffalo Show, November, 1915: Cock, 2; hen, 1-5; ckl., 2-4; plt., 2-5; specials for two best hens. Birds of my strain: Hen, 2; ckl., 3; plt., 1; 1st young pen. Judge, Geo. J. Kerr.

E. K. Conrad, 36 Essex St., Hackensack, N. J., reports the following winnings on his Speckled Sussex at Grand Central Palace, December, 1915: Cock, 1-2; hen, 1-2; ckl., 1; plt., 3; pen, 1; best colored and best shaped male.

George Beuoy, R. R. 3, Cedar Vale, Kan., showing Capons, reports the following winnings on his 9 varieties at the World's Fair, 1915: Ten firsts, eight seconds, one third, one fourth; \$25.00 in gold for largest and best display of Capons.

Mrs. Walter Cline, Versailles, Mo., reports the following winnings on her White Plymouth Rocks at Missouri State Fair, Sedalia, 1915: Cock, 1-3; ckl., 1; pen, 1-2. Judge, V. O. Hobbs.

John S. Pennington, Plainfield, Ill., reports the following winnings on his Golden Wyandottes at the World's Fair, 1915: Cock, 1; hen, 3; ckl., 2; plt., 2; pen, 2.

Richard M. Seward, Lewistown, Ill., reports the following winnings on his S. C. Buff Orpingtons at Quincy, Ill., 1915: Cock, 3; hen, 4; pen, 3.

Harold Tompkins, Concord, Mass., reports the following winnings on his Rose Comb R. I. Reds at Buffalo, N. Y., November 22-27, 1915: Cock, 2-4; hen, 4; ckl., 1-2; plt., 1-3; pen, 1-3; best cock, hen, ckl. and plt.; best display; all color specials. Judge, J. W. Simmons. S. C. R. I. Reds: Cock, 2; hen, 3; ckl., 1-3; plt., 2-3; pen, 1-4; best two ckl.s and best display; all shape specials. Judge, H. P. Schwab.

Wm. & C. W. Tyler, Perry Road, Elgin, Ill., report the following winnings on their White Orpingtons at Quincy, Ill., 1915: Cock, 3; hen, 1-2; plt., 1; special shape and color female. Judge, Hale.

W. D. Holterman, Box A, Fort Wayne, Ind., reports that the 1st ckl. at Frisco was an "Aristocrat".

Payne Bros., Portland, Conn., report the following winnings of their R. C. R. I. Reds at the Springfield, Mass., Show, 1915: Cock, 1-2; hen, 5; ckl., 1-2-3-5; plt., 2-4; pen, 1-2.

Tenacre Poultry Farm, Princeton, N. J., reports the following winnings on their S. C. White Leghorns at the Trenton Poultry and Pigeon Assn. Show, Trenton, N. J.: Cock, 1; ckl., 1-2; pen; hen, 1-2-3-4; plt., 1-2-3; Buff plt., 3-4; special prizes for best plt. in the show (of all breeds); best pen in the Mediterranean class; best cock in the S. C. White Leghorn class.

Elton C. Mahon, Norwood, Tenn., reports the following winnings on his Buckeyes at Panama-Pacific International Exposition, 1915: Cock, 1-2-5; hen, 1-2-3-5; ckl., 1-2-4; plt., 2-3-5-7; pen, 1; several specials, including two handsome loving cups.

Fred A. Ruf, Crown Point, Ind., reports the following winnings on his White Wyandottes at Hammond, Ind., November 23-28, 1915: Cock, 4; hen, 5; ckl., 1-4-5; plt., 3-4-5; young pen, 1; old pen, 4; several specials. Judge, E. M. Quay.

J. W. Bawden, Ridgetown, Ont., Can., reports the following on his Buff Plymouth Rocks at Ont. Winter Fair, Guelph, Ont., Can., 1915: 1 cock; 1-2 hen, ckl., plt.; color and shape specials, and cup for cock, hen, ckl., plt.

Dr. J. H. Prudhomme, Thurmont, Md., reports the following winnings at Great Frederick Fair: 1 Silver Campine cock, ckl.; 1 Golden Campine hen, plt.; 1-2 Red Sussex hen; 1 Speckled Sussex cock, 1-2 hen; 1-2 Blue Orpington hen.

T. P. Dougherty, Tyrone, Pa., reports the following winnings on White Orpingtons and S. C. W. Leghorns at Tyrone, Pa., November 23-26, 1915: 1 prize cock, S. C. White Leghorn; 1-2 W. Orpington ckl. Judge, Bradford of Troy, Pa.

Charles G. Pape, 1617 Cass St., Fort Wayne, Ind., reports the following winnings on his S. C. Black Minorcas at the Chicago Coliseum, 1915: 1-2-4 cock, 1-3 hen, 2 ckl., 1-3-4 plt., 1 old pen, yng. pen.

Q. A. Shaw McKean, Prides Crossing, Mass., reports the following winnings on his White Wyandottes at Beverly, Mass., December 13-15, 1-3 cock, 2-3 ckl., 1-2 plt., 1 hen, pen. All shape and color specials, cup for best Wyandotte in show. Arthur Duston, judge.

A. B. Porter, La Salle, Ills., reports the following winnings on his S. C. Buff Orpingtons at Chicago Coliseum December 10-15, 4 pen.

J. W. Friesner & Son, Bremen, O., reports the following winnings on his S. C. White Leghorns at World's Fair, Frisco, 8 hen, plt., 6 pen. At Zanesville, O., December, 1915, 1-2 plt., 3 hen, 1 pen. Best pullet med. class.

Cora B. Garbutt, Darien, Wis., reports the following winnings on her S. C. Anconas at Chicago Coliseum December, 1915, 1 cock, hen, ckl., old pen, yng. pen, 3 plt.

Hough Egg Farm, Far Hills, N. J., reports the following winnings on their S. C. White Leghorns at Stroudsburg, Pa., December 14-17, 1-3-4 cock, 1-3 hen, plt., 3-5 ckl., 1-2 pen. Silver cup—1st best display. Silver cup—best display Mediterranean class. Silver cup—best bird in show. King medal—best exhibition in Mediterranean class. Special ribbon—best shape bird Mediterranean class. Special ribbon—whitest bird Mediterranean class. W. J. Stanton, judge.

Wm. Cook & Sons, Scotch Plains, N. J., reports the following winnings on White Orpingtons at Philadelphia, December, 1915, 1 cock, ckl. On Black Orpingtons, 1 cock. On Blue Orpingtons, 1 cock, ckl., pen. Winning five cups in all, two being for best display in English classes.

E. J. Harbin, Riverside, Ill., reports the following winnings on his S. C. White Orpingtons at Chicago Coliseum December 10-15, 3 old pen. At Brookfield, Ill., December 2-5, 1-3 cock, 1-2 hen, 1-2-3 ckl., 1 plt., yng. pen. Two color and one shape special, cup for best pen. At Quincy, Ill., November 24-28, 1 cock, color special for male, 2 pen, 3 hen, 4 ckl. Best display. At South Shore Country Club, County Fair, September 23-25, 1-4-5 ckl., cockerel sweepstakes and silver cup, 1-4 plt. Pullet sweepstakes and silver cup.

W. W. Kulp, of Pottstown, Pa., reports the following winnings at the Philadelphia show on R. C. Brown Leghorns, 1-2 cock, ckl., 1-2-3 hen, plt. Two silver cups. On R. C. White Leghorns, 1 cock, hen, ckl., plt. On S. C. Brown Leghorns, 1-2 hen, 4 cock

150 EGG "IOWA" \$6.49
INCUBATOR
GUARANTEED



A wonderful money-maker at a bargain price. Big hatches of healthy chicks.

60 Days Trial Get our remarkable Money-Back proposition. We take the risk. Write Today Free.

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A COMPLETE POULTRY PLANT

Hour out North Shore, Long Island, 1/2 mile station; 14 acres fine land; old fashioned house, 11 rooms, bath, hard wood floors; barn for 4 cows, 4 horses, wagons; incubator house two-story and basement; 2 laying houses 110 feet long, feed room, 100 feet runs; 10 brooder houses, 40 colony houses latest type; new wire fences, steel posts; garage; 4-inch artesian well, power plant. Running water to all buildings, garden, etc. Everything in perfect order; will be sold at great sacrifice. Chance for "live" poultry man. THEO. S. HALL, 47 W. 34th St., New York City



Electric X-Ray Pocket Egg Tester and Flash Light

Most efficient for testing and candling eggs, reading incubator thermometers, for household and a thousand other uses. Has long life battery, gives a powerful white light.

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M. BAYERDORFFER
Huguenot Park S. L., New York

CURTIS WHITE RUNNERS

Have proven again that they are the best in America, winning 1st and 2nd Old Drake, 1st and 2nd Old Duck, 1st and 2nd Young Drake and 1st Young Duck at the great Philadelphia Show, December, 1915. Quality stock for sale. Order hatching eggs early.

E. G. CURTIS
Atsion New Jersey

Bean's Blue Ribbon Harvard Reds

The BLOOD that wins the BLUES—North, South, East, and West, 1000 of the finest chickens I ever owned—just ready for sale. You don't have to take left overs. You can get FIRST CHOICE NOW.

300 Dandy Cockerels, \$5 to \$25

A few show birds higher—up to \$100. Fine breeding and show Pullets, \$3 up. Descriptive circular and price list for 1915-16, yours for the asking.

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McKenzie Strain (AUSTRALIA) Mumby Strain (NEW ZEALAND) Barron Strain (ENGLAND) Mumby & Barron Crossed (AMERICA) Bartholomew Strain (AMERICA)

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1500 Pontiac Bldg. Chicago, Ill.

Chippewa Poultry Association

Next Annual Show, January 25-29 inclusive, 1916

Best Poultry Show in Northern Wisconsin. Large Cash Specials. Silver cups and special attractions. Judging by score card. Premium lists now ready; get a copy. R. R. Woodruff, Sec., Chippewa Falls, Wis.

The Central South Dakota Poultry Association

will give its Second Annual Show at Pierre, S. Dakota, January 11th to January 15th, 1916.
C. E. BRANCH, Judge. JOSEPH IHLL, Secretary.

Great Western Ohio Show, Jan. 24-29, 1916

Seventh annual show. Free uniform cooping; low entry fees; good judges. Plenty of cups and merchandise specials as well as big cash offerings. Get your premium list now and be ready to be with us again this year. Address, Ora Overholser, Sec., EATON, O.

Seventh annual show Northeastern Poultry and Pet Stock Association

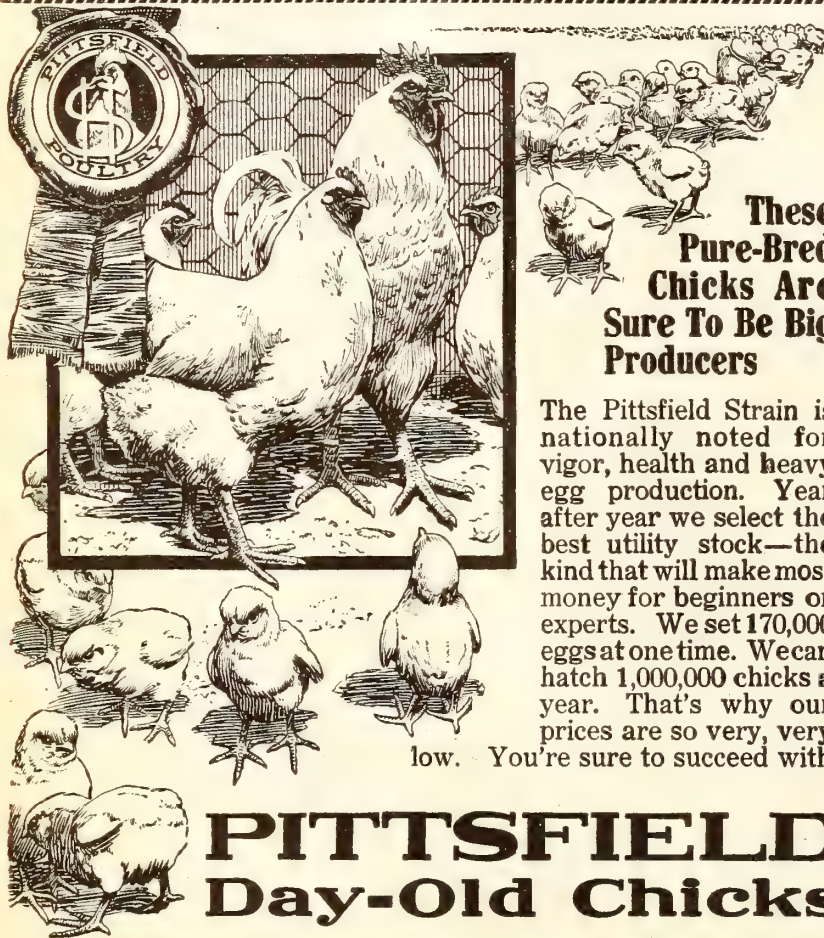
GREEN BAY, WIS., Jan. 19-23, 1916

Cash Premiums—Comparison Show. Write for premium list. D. E. HALE, Judge.
LOUIS H. HEBEL, Secy., Green Bay, Wis.

SEATTLE — King County Poultry Association, Inc.

SHOW in SEATTLE, WASHINGTON, JANUARY 10th to 16th, 1916

C. W. MELVILLE, Secretary 473 COLMAN BLDG. SEATTLE, WASH.



**These
Pure-Bred
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The Pittsfield Strain is nationally noted for vigor, health and heavy egg production. Year after year we select the best utility stock—the kind that will make most money for beginners or experts. We set 170,000 eggs at one time. We can hatch 1,000,000 chicks a year. That's why our prices are so very, very low. You're sure to succeed with

PITTSFIELD Day-Old Chicks

Barred Rocks	\$18 for 100	Single Comb	\$15 for 100
White Rocks	\$10 " 50	White	\$8.50 " 50
S. C. R. I. Reds	\$5 " 25	Leghorns	\$4.25 " 25
White Wyandottes, \$22 for 100; \$12 for 50; \$6.00 for 25.			

We Guarantee Safe Delivery to You

Get your advance order in now. NO MONEY DOWN. Just tell us how many chicks you want, of which breed, and when you want them shipped. Don't wait—for we fill orders in rotation. With your chicks we will send expert directions telling how to make them grow and pay.

Special Chicks for Breeders

We have a number of extra fine birds—all hen raised—from very high egg-producing parents. Better get your order in now.

Write for Descriptive Folder

PITTSFIELD POULTRY FARMS CO., 190 Main St., Holliston, Mass.

SHOW DATES, 1915-1916.

ALABAMA.

Jan. 13-15, 1916. Mobile; H. L. Wright, sec.

CALIFORNIA.

Jan. 5-12, 1916. Los Angeles; W. S. Russell, Will Purdy, A. G. Goodacre, judges; Walter M. Ross, sec., 224 W. Colo. St., Glendale.

Jan. 14-18, 1916. Sacramento; W. S. Russell, Charles G. Hinds, Luce, judges; C. A. Wilkins, sec.

COLORADO.

Jan. 4-10, 1916. Montrose; D. A. Stoner, judge; Ella E. Wallace, sec., 1105 So. First St.
Jan. 3-9, 1916. Denver; C. P. Van Winkle, J. R. Wilson, judges; W. John Searle, sec.
Jan. 13-15. Brush; H. H. Case, judge; J. L. Cameron, sec.

Jan. 17-22, 1916. Denver; Tucker, Keeler, judges; W. C. Schuman, sec., 400 S. Emerson Street.

CONNECTICUT.

Jan. 19, 20, 21, 1916. Waterbury; Welles, Ives, Chatfield, judges; E. P. Armstrong, sec., 216 Wolcott St.

DISTRICT OF COLUMBIA.

Jan. 18-23, 1916. Washington; J. Eberly, John C. Kriner, judges; R. D. Lillie, 227 Maple Ave., Takoma Park, D. C., sec.

FLORIDA.

Feb. 15-19, 1916. Orlando; W. R. O'Neal, sec.

GEORGIA.

Carrollton; Ezra Morris, supt.; John Matthews, sec.

IDAHO.

Jan. 4, 5, 6, 7, 8, 1916. Coeur d'Alene; G. A. Greenfield, judge; A. O. Laabs, sec.

Jan. 10-16 inc., 1916. Boise; W. M. Coats, judge; Leslie L. Long, sec.

ILLINOIS.

Jan. 9-14, 1916. Kankakee; J. C. Johnston, judge; E. F. Radeke, sec., 526 So. Schuyler Ave.

Jan. 10-15, 1916. Rockford; O. L. McCord, judge; A. E. Lindsay, sec., 220 Guard Street.

Jan. 10-15, 1916. Havana; F. S. Tarbell, judge; H. W. Chambers, sec., 627 Market St.
Jan. 11-15, 1916. Carbondale; G. W. Heyl, judge; F. W. Myers, sec.

Jan. 11-14, 1916. Mattoon; H. A. Pickett, judge; W. H. Morris, sec.

Jan. 13-19, 1916. Chicago; Arthur C. Smith, Frank L. Platt, J. C. Johnston, Charles McClave, Newton Cosh, Joseph Dagle, H. A. Pickett, E. M. Quay, W. E. Stanfield, Z. D. Struble, Jerome A. Leland, Dr. H. P. Clarke, judges; D. E. Hale, sec.

Jan. 17-22, 1916. Decatur; Chas. McClave, E. H. Hoffman, judges; H. B. Lowe, sec., 703 Milliken Bldg.

Jan. 17-22, 1916. Galesburg; Harry W. Atkins, judge; E. A. Tate, sec.

Jan. 17-22. Altamont; P. A. Munzel, sec.

Jan. 17-22. Galesburg; Harry W. Atkins, judge; E. A. Tate, sec.

Jan. 17-22. Joliet; J. A. Leland, judge; Dr. J. J. Brickerhoff, sec., Minooka.

Jan. 18-21. Sheridan; J. C. Johnston, judge; R. J. Callaghan, sec.

Jan. 22-27, 1916. Lanark; Chas. McClave, Carl Hoag, judges; H. B. Puterbaugh, sec.

Jan. 24-29, 1916. Belvidere; E. G. Roberts, judge; Mrs. J. C. Plane, sec.

Jan. 25-29, 1916. Victoria; J. C. Johnston, judge; E. E. Van Buren, sec.

Macomb; Walter R. Purdum, sec.

INDIANA.

Jan. 6-11, 1916. Michigan City; Elmer Gimlin, judge; A. L. Peterson, sec.

Jan. 10-14, 1916. Indianapolis; W. C. Pierce, W. W. Zike, Frank Conway, Len Rawnsley, judges; C. R. Milhouse, sec.

Jan. 10-15. Brazil; B. H. McCracker, judge; B. H. Hendrix, sec.

Jan. 10-16, 1916. Lafayette; Earl Hemenway, judge; C. J. Munger, sec., 2805 East Union St.

Jan. 10-14, 1916. Evansville; Clyde Moore, John J. Seeme, judges; A. J. Korp, 2728 E. Illinois St., sec.

Jan. 10-15, 1916. Brazil; B. H. McCrackin, judge; J. C. Macdonald, sec.

Jan. 11-15, 1916. Bedford; W. W. Zike, judge; Dr. John G. Hogan, sec.

Jan. 17-22, 1916. Logansport; E. M. Quay, judge; W. L. Alder, sec.

Jan. 18-22, 1916. Anderson; Compelent, judge; W. O. Cartwright, 1524 Sherman St.

Jan. 17-22. Frankfort; Allin Kulp, judge; Harry Wolf, sec.

Jan. 18-21, 1916. Veedersburg; Zimmer, judge; Ed. Patton, sec.

New Haven; I. B. Sleet, sec.

Jan. 18-23, 1916. Ft. Wayne; H. A. Pickett, judge; E. G. Lapham, sec.

Jan. 19, 20, 21, 22, 1916. Batesville; B. O. Swaim, judge; Monroe H. Worning, sec.

Jan. 20-23, 1916. South Bend; George H. Northrup, judge; Paul A. Heierman, sec.

Week of Jan. 24, 1916. Elkhart; H. C. Dippel, judge; W. C. Brunig, sec.
 Jan. 27-31, 1916. La Porte; F. L. Platt, judge; A. F. Wegner, sec., 324 E. Maple Ave.
 3rd week in January, 1916. Frankfort; Olin Cullop, judge; O. A. Guntle, sec., 214 N. Main St.

IOWA.

Jan. 17-22, 1916. New Hampton; Henry C. Dippel, judge; C. B. Phillips, sec.
 Jan. 24-29, 1916. Mt. Pleasant; F. H. Shellabarger, judge; W. S. Moore, sec., 806 Lincoln St.
 Boone; T. L. Jones, sec.

KANSAS.

Jan. 10-15, 1916. Wichita; W. H. Card, G. D. McClaskey, Adam Thompson, judges; Clyde C. Whiteley, sec.
 Jan. 15-18, 1916. Osborne; C. H. Rhodes, judge; H. C. Nielsen, sec.
 Jan. 25, 26, 27, 28, 1916. Leavenworth; E. C. Branch, judge; Chas. M. Swan, sec.
 Minneapolis; E. E. Grimes, pres.; C. C. Davis, sec.

KENTUCKY.

Jan. 10, 11, 12, 13, 14, 15, 1916. Catlettsburg; C. T. Cornman, judge; Leo Weinfurter, sec.

LOUISIANA.

Jan. 26-29, 1916. New Orleans; Circle "C" Ranch, sec.

MASSACHUSETTS.

Jan. 11-15, 1915. Boston; W. B. Atherton, sec., 36 Bromfield St.
 Jan. 18, 19, 20, 1916. North Adams; Albert Whitney, sec.
 Jan. 25-27, 1916. Lenox; W. H. Card, Haldie Nicholson, judges; Steve C. Burghardt, sec., Interlaken.
 Jan. 26-29, 1916. Worcester; Charles H. Wood, sec., 715 State Mutual Bldg.

MICHIGAN.

Jan. 10-15, 1916. Lansing; Wise, Otte, judges; E. R. A. Hunt, sec.
 Jan. 10-16, 1916. Hillsdale; Hamblin, judge; Paul L. Ward, sec.
 Jan. 11-14, 1916. Grand Rapids; Jas. A. Tucker, W. A. Bonner, E. A. Knapp, judges; John Bowstrom, sec., 632 Sinclair Ave., N. E.
 Jan. 11-16, 1916. Pontiac; Roy V. Otto, judge; Claude S. Harrison, sec., RFD.
 Jan. 18-21, 1916. Ludington; W. A. Benner, judge; O. C. Zook, sec.
 Jan. 18-21. Decatur; R. W. Strong, judge; Mr. Webb, sec.
 Jan. 19-22, 1916. Lawrence; C. A. Flanders, C. W. McNear, A. Geoffrey Smith, Lev Burnham, Jesse Rutter, judges; F. J. Berneman, 10 Moran Court, sec.
 Jan. 19-23, 1916. Jackson; Frank W. Traviss, judge; F. B. Wedow, sec.
 Jan. 25-28, 1916. Muskegon; Geo. H. Northup, judge; H. S. Noble, sec.
 Jan. 26-31, 1916. Detroit; Tucker, Wells, Wise, judges; Fred M. Crowe, sec., Owosso, Michigan.
 2nd week in February, 1916. Saginaw; Wm. Wise, judge; Ed. Ohland, sec., 131 N. 9th St.

MINNESOTA.

Jan. 11, 12, 13, 14, 1916. Willmar; Mrs. John Kruse, and others, judges; Severt Osmondson, sec., 313 Bernard St.
 Jan. 12-16 inc., 1916. St. Cloud; E. G. Roberts, judge; Henry C. Nierengarten, sec.
 Jan. 18-20, 1916. Faribault; E. D. Roth, sec.
 Jan. 18-22. Rochester; Ralph Whitney, judge; C. A. Boyd, sec.
 Jan. 24, 1911. Duluth; S. B. Smydaws, sec.
 Jan. 25-27, 1916. Stewart; Mrs. John Kruse, judge; A. J. Buhr, sec.
 Jan. 25-29. Duluth; Geo. W. Hackett, judge; Mr. E. H. Conkey, sec.
 Feb. —. Crookston; Prof. A. C. Smith, judge; J. Saugstad, sec.

MISSOURI.

Jan. 10-15, 1916. Kansas City; V. O. Hobbs, Russell F. Palmer, William C. Tallant, Tom Cochran, A. J. Meyer, judges; E. L. Noyes, sec.

MONTANA.

2nd week in Jan., 1916. Livingston; C. S. Norton, judge; E. E. Vanzant, sec., Box 325.
 Jan. 12-15. Conrad, C. A. Greenfield, judge; Karl L. Johnstone, pres.
 Jan. 17-22, 1916. Billings; F. H. Shellabarger, Oscar Nelson, judges; C. A. Russell, sec., Box 1077.

NEBRASKA.

Jan. 17-22, 1916. Falls City; Roberts, Branch, judges; A. H. Smith, sec., Lincoln.

NEW HAMPSHIRE.

Jan. 25-28, 1916. Dover; F. G. Cook, G. P. Coffin, judges; Edw. H. Quimby, sec.

NEW JERSEY.

Jan. 10-15, 1916. Dover; H. Kent Caldwell, sec.

NEW YORK.

Jan. 10-15, 1916. Waverly; C. H. Merrill, sec.

Fond du Lac Poultry and Pet Stock Association

Will Hold its Next Show JANUARY 13-16, 1916, at FOND DU LAC, WIS. All New Steel Cooping.
 This will be a comparison show and will be judged by Jas. Tucker and Geo. M. Wells.
 For premium list write the Secretary, Wm. P. Kennedy, Fond du Lac, Wis.

BELOIT, WISCONSIN, JANUARY 17 TO 22, INCLUSIVE, 1916

Entries close January 15th, 1916. T. J. Rountree, judge. Ten silver cups given away. Premium list ready December 15, 1915. Awards placed by score card. All entries properly cooped, fed and cared for. Beloit Poultry and Pet Stock Association, Guy S. Lee, Sec'y, 737 Grant Street, Beloit, Wis.

WORCESTER POULTRY ASSOCIATION, Worcester, Mass., Jan. 26-29, 1916

Official State Show of American Poultry Association
 Judges Charles H. Shaylor, George W. Weed, Haldie Nicholson. Entries close January 12th.
 For full particulars and premium list write Charles H. Wood, Sec'y, 715 State Mutual Building, Worcester, Mass.

West Michigan Poultry Association, Inc.

Will Hold its Next Show at GRAND RAPIDS, MICH., JANUARY 11-14, 1916

Jas. A. Tucker, W. A. Bonner, E. A. Knapp, judges. Liberal cash specials in all classes. For premium list write the Secretary, John Bowstrom, 632 Sinclair Ave., N. E., Grand Rapids, Mich.

The Lawrence Co. Poultry Show

Bedford, Indiana, January 11-15, 1916

Capacity 1000 birds. 1000 Premiums. A postal brings the list of the best show in Southern Indiana.
 W. W. Zike, Judge. Dr. John G. Hogan, Secretary.

THE OHIO VALLEY POULTRY ASSOCIATION

will hold its fifth Annual Show at Gallipolis, Ohio, Jan. 18 to 24, 1916

Walter C. Young, Judge; by comparison. Will have cups, cash, and over 100 merchandise specials.
 C. J. McCormick, Sec'y., Gallipolis, Ohio.

BATESVILLE POULTRY SHOW

Batesville, Ind., January 19-22, 1916.

Competition open to the world. A comparison show. Valuable cash, silver cups and merchandise premiums. B. O. Swaim, Judge. For premium list and particulars write Monroe H. Wonnig, Batesville, Indiana.

CENTRAL MICHIGAN POULTRY AND PET STOCK ASS'N, Inc.

will hold its 19th Annual Show at Lansing, Michigan, January 10 to 15, 1916. Liberal cash prizes in all classes; 50 silver cups, with no strings attached. Judges, Wm. M. Wise and Roy V. Otto. For premium list, write

R. A. HUNT, Secretary 849 W. Joseph St. LANSING, MICH.

Kansas City Poultry Show, Jan. 10-15, 1916.

A win at Kansas City is a win worth while. Judges: V. O. Hobbs, Russell F. Palmer, Wm. C. Tallant, Tom Cochran, A. J. Meyer. Write for premium list, E. L. Noyes, Sec'y., 409 Manhattan Bldg., Kansas City, Mo.

THE WYANDOTTE POULTRY AND PET STOCK ASSOCIATION

Annual Score Card Show, January 5-9, 1916, at Wyandotte, Mich.

Bring your birds and have them scored by Judge C. E. George. For Premium List and Entry Blanks, write G. A. Smock, Secretary, Wyandotte, Mich.

16th Annual Exhibition of the Fanciers' Association of Indiana

Will be Held at Indianapolis, Ind., January 10-14, 1916

C. R. Milhous, Secretary. Pierce, Zike, Conway and Rawnsley, Judges of Poultry. W. I. Lyons, Judge of Pet Stock. Send for Premium List.

The Great Los Angeles Show, January 5-11, 1916

Eleventh Annual Exhibition Poultry Breeders Association of Southern California

The Pacific Coast's largest show. Judges, Russell, Purdy, Goodacre Walthew, Royce. Walter M. Ross, Secretary, 224 West Colorado Street, Glendale, Cal.

The Madison County Poultry Association

Will Hold its Bi-Ennial Show Jan. 18-22, 1916, at Anderson, Ind.

Several Five Dollar Gold Pieces given for specials; also one Incubator and numerous Poultry Supplies. For Premium List and full particulars address the secretary, W. O. Cartwright, Anderson, Ind.

MARION POULTRY ASSOCIATION SHOW, HELD JAN. 17 to 22, 1916

Best Little Show in Ohio. Entries Close January 15, 1916

A number of silver cups will be offered by the Marion Chamber of Commerce.

EARL SARGENT, Secretary MARION, OHIO

THE OIL CITY POULTRY ASS'N.

Pennsylvania State Meets of the Ancona Club of America and American Houdan Club.

JANUARY 12-15, 1916, OIL CITY, PA.

A. J. Hammerstrom and O. W. Preston, Judges. Entries close January 6. Premium list ready Dec. 15. Bronze and silver cups and specials. Chas. R. Baker, Sec., Oil City, Pa.

BIG CONSOLIDATED SHOW

20th annual exhibition of the Western Poultry Fanciers' Association will hold a great consolidated show with the Iowa State Poultry Association and the Iowa Branch of the American Poultry Association at Cedar Rapids, Iowa, Jan. 10 to 15, 1916. The premium list will be ready Dec. 15. Send for a copy; it's free. **JUDSON A. KRAMER, Sec., Cedar Rapids, Ia.**

Douglas County Poultry Association

Will hold its Sixth Annual Show at Superior, Wis., January 18-21, 1916. Winners placed by comparison.

Non-winners will receive a score card. Liberal Premiums paid.
PROF. A. C. SMITH, Judge W. A. ROYCRAFT, Secretary

Hillsdale's Michigan Big 1000-Bird Show

January 10-15, 1916

Our last show was splendid from every viewpoint. The coming one will be double in size and better every way. A winning with us will pay you. Catalogue ready December 15th. **PAUL L. WARD, Sec'y**

Jan. 11-14, 1916. Oxford; Irving Rice, J. D. Jaquins, judges; C. D. Sharpe, sec.

Jan. 11-14, 1916. Ogdensburg; May I. Moreland, sec.

Jan. 18-22, 1916. Schenectady; H. J. Fuller, sec.

Jan. 12-19, 1916. Batavia; C. B. Patterson, sec.

Jan. 17-23, 1916. Utica; J. F. Van Alstyne, J. D. Jaquins, H. L. Green, judges; Fredk. W. Botsford, sec., 37 Watson Place.

Jan. 24-28. Sidney; Edwin Chase, sec., R. I.

Jan. 27-Feb. 3, 1916. Rochester; Chas. H. Welles, Haldie Nicholson, Chas. Nixon, Wm. G. Minich, W. H. Card, C. T. Cornman, H. W. Hilfiker, judges; J. W. Chapman, sec., Box 9554.

NORTH CAROLINA.

Jan. 12, 13, 14, 1916. Winston-Salem; Louis G. Heller, judge; Wm. Carey Brown, sec., Box 42.

NORTH DAKOTA.

Jan. 31 to Feb. 5. Fargo; M. N. Hatcher, sec.

OHIO.

Jan. 10-15, 1916. Springfield; Z. D. Struble, T. J. Staley, Jess McCullough, judges; L. B. McDonald, sec.

Jan. 10-15, 1916. Galion; Claude E. Coe, judge; W. M. Huffman, sec.

Jan. 10-16, 1916. Bluffton; J. W. Milinix, judge; D. J. Kohle, sec.

Jan. 12-15. Gibsonburg; S. G. Case, judge; J. W. Richard, sec.

Jan. 13-15, 1916. New Concord; F. H. Ricketts, judge; Carl C. Strahl, sec.

Jan. 18-23, 1916. Van Wert; Frank C. Cole, sec.

Jan. 10-16, 1916. Wapakoneta; H. A. Ench, judge; H. W. Loescher, sec.

Jan. 11-15, 1916. Wadsworth; S. G. Case, judge; Morgan Neath, sec.

Jan. 18-22, 1916. Marion; Luther A. Streams, judge; Earl Sargent, sec. 135 Waterloo St.

Jan. 18-23, 1916. Port Clinton; D. D. Whitaker, judge; G. T. Conley, sec.

Jan. 18-25, 1916. Gallipolis; Walter C. Young, judge; C. J. McCormick, sec.

Jan. 19-22, 1916. Jamestown; R. H. Glass, sec.

Jan. 24-29, 1916. Van Wert; Geo. M.

Wells, judge; Chas. P. Germann, sec.

Jan. 19-24, 1916. Barberton; J. E. Gault, judge; E. W. Arnold, sec., 112 Locust St.

Jan. 24-28, 1916. Marietta; J. E. Gault, judge; E. C. Augert, sec., Sunbury, O.

Jan. 24-29, 1916. Eaton; Charles E. Cram, judge; Ora Overholser, sec.

OKLAHOMA.

Jan. 12-15, 1916. Carnegie; John C. Snyder, judge; P. C. Dawson, sec.

Jan. 17-22, 1916. Oklahoma City; Geo. C. Winans, sec.

PENNSYLVANIA.

Jan. 10-15 inc., 1916. Altoona; H. A. Pickett, Harry Gill, Fred Cook, P. A. Sheid, judges; H. Swertzbeiger, sec., 121 Washington Ave.

Jan. 10-15, 1916. Bentleyville; Oscar E. Miles, judge; E. C. Snyder, sec.

Jan. 11-16, 1916. Johnstown; John E. Weaver, P. A. Schued, judges; R. Earl Penrod, sec., 104 Union St.

Jan. 12, 13, 14, 15, 1916. Oil City; Charles R. Baker, sec.

Jan. 19-22, 1916. Media; Thos. Samuels, Annesly M. Anderson, judges; P. G. Platt, sec., Wallingford, Pa.

Feb. 1-5, 1916. Latrobe; Geo. W. Webb, judge; C. L. Palmer, sec.

SOUTH DAKOTA.

Jan. 11-16, 1916. Pierre; E. C. Branch, judge; Joseph Ohli, sec.

1916 RELIANCE Incubator BARGAINS

Here's the Chance You've Waited For

The four biggest Incubator Bargains ever offered. Buy a 1916 Reliance and get the best. The best built Incubator ever offered. Double Walls—Double top and bottom—Double Glass Door. Hot water heated with heavy copper tank and boiler; has heavy metal safety lamp. Best regulator, thermometer, thermometer holder, egg tray, egg tester, book of instructions. A complete incubator, no extras to buy. So simple that a child can operate it successfully. **And we pay the freight.**

Bargain No. 1—\$5⁵⁰
Reliance 70 Egg Incubator. Worth \$10.00—
Our Freight paid price

Bargain No. 2—\$8⁵⁰
Reliance 150 Egg Incubator. Worth \$15.00—
Our Freight paid price

Bargain No. 3—\$9⁰⁰
Reliance 70 Egg Incubator \$5.50
Reliance 70 Chick Brooder \$4.00
Incubator & Brooder freight paid \$9.50

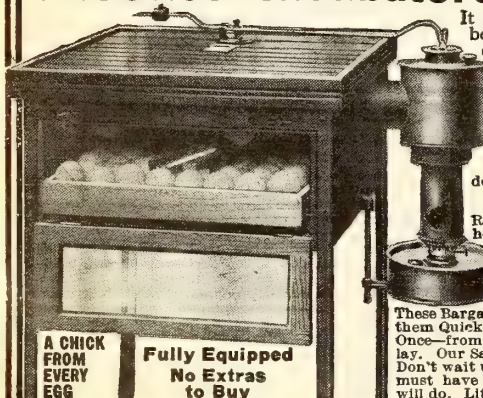
Bargain No. 4—\$11⁵⁰
Reliance 150 Egg Incubator \$8.50
Reliance 150 Chick Brooder \$4.00
Incubator & Brooder freight paid \$12.50

Freight Prepaid

When you compare these bargain prices on Reliance Incubators and Brooders with others, remember that, besides the Big Saving in Price, you save all the freight.

As a special inducement to you WE PAY THE FREIGHT to your R. R. Station east of the Rocky Mountains. This is a Big Concession and means a material saving to you. Don't be fooled by so-called low prices quoted F. O. B. Factory. WE PREPAY the FREIGHT.

Reliance Incubators and Brooders



A CHICK FROM EVERY EGG

Fully Equipped No Extras to Buy

Hatching Guarantee

We guarantee Reliance Incubators to hatch every chick that can be hatched. Reliance Brooders to raise every chick that is worth raising—when operated according to our instructions sent with every Incubator and Brooder.

Money Back Guarantee

We positively Guarantee RELIANCE Incubators and Brooders to be exactly as represented. If any Reliance Incubator or Brooder fails to give PERFECT SATISFACTION, we will take back the machine and REFUND YOUR MONEY.

Best Construction

That's the keynote of our success—the reason we can guarantee the Reliance to make chicken-raising PAY. Made of the best materials money can buy—side walls, top and bottom double thick. Cold can't get in, heat can't get out.

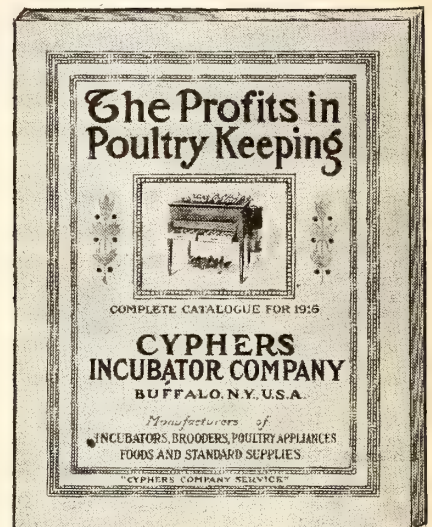
Complete Equipment

Remember—the Reliance Incubator is Hot water heated with heavy copper tank and boiler and is equipped with the best regulator, thermometer, egg-tester, lamp, egg trays, complete instructions. Satisfaction guaranteed.

These Bargains Limited—Order Today

These Bargain Offers are our New Year Gift to you. Accept them Quick. Order your Reliance outfit today—Now—at Once—from this advertisement. Don't hesitate—don't delay. Our Satisfaction Guarantee protects you absolutely. Don't wait until this New Year Offer is withdrawn. If you must have more information, write us quick. A postal will do. Literature and Details sent on application.

Reliance Incubator Co. Incubators and Brooders
Box 50 Freeport, Illinois



This illustration is a reproduction of the front cover of the 1916 catalog issued by Cyphers Incubator Co., Buffalo, N. Y.

Jan. 24-28, 1916. Lake Preston; Joseph Dagle, judge; Mrs. A. E. Shoenwether, sec.
Jan. 31, 1915-Feb. 15, 1915. Mitchell; R. C. Raines, sec.

TEXAS.

Jan. 19-22, 1916. Corpus Christi; J. F. Herold, sec.

VIRGINIA.

Jan. 11-14, 1916. Norfolk; L. C. Page, sec.

Jan. 25-28, 1916. Warrentown; M. J. O'Connell, sec.

WEST VIRGINIA.

Jan. 10-15, 1916. Fairmont; Wm. F. Auerswald, judge; A. W. Musgrove, sec.

Jan. 10-15, 1916. Charleston; Charles V. Keeler, judge; Julian C. Byrd, sec.

WISCONSIN.

Jan. 10, 11, 12, 13, 1916. Manawa; W. H. Laabs, judge; A. C. Lindsay, sec.

Jan. 10-15, 1916. Mineral Point; Geo. Wells, judge; Allen Tucker, sec.

Jan. 10-15, 1916. Racine; George H. Northup, judge; E. J. Amundson, sec.

Jan. 17, 18, 19, 20, 21, 22, 1916. Janesville; Laabs, Stanfield, judges; E. P. Wilcox, sec.

Jan. 18-21. Superior; Prof. A. C. Smith, judge; W. A. Roycraft, sec.

Jan. 19-23, 1916. Green Bay; D. E. Hale, judge; L. H. Hebel, sec.

Jan. 25-29, 1916. Chippewa Falls; W. H. Laabs, judge; R. R. Woodruff, sec.

Feb. 1-6. Hartford; Geo. W. Wells, judge; A. E. Kissel, sec.

Feb. 9-12. Wild Rose; Geo. M. Wells, judge; C. G. Corning, sec.

HOT BED SASH
80c CYPRESS, well made with cross bar, blind tenons, white leaded in joints, Glass, \$1.50 per Box.
C. N. ROBINSON & BRO. Dept. 32 Baltimore, Md.

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ANCONAS.

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BLACK TAIL JAPANESE Bantams; pairs, trios, breeding pens; \$4.00 to \$6.00 per pair. Eggs, \$2.00 for 15. Satisfaction guaranteed. Hez Kinter, Dillsburg, Pa. 1-3

SEBRIGHTS, JAPANESE, Cochins, Games, Brahmans, Rose Combs, Polish. Send 2c stamp for circular. Fenn Bantam Yards, Desk 37, Delavan, Wis. 12-5

BANTAMS bring profit and pleasure. Our monthly tells how and why. Send 50c for a year's subscription or ten cents for a three months' trial. American Bantam Fancier, 933 Advertising Bldg., Chicago. 1-14 tf

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BANTAMS, 40 VARIETIES. Catalog 2c. F. C. Wilbert, Grand Rapids, Mich. 1-2

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WHITE COCHIN BANTAMS. Winners Panama-Pacific Exposition, Chicago. Pittsburgh, Philadelphia, Indianapolis, Buffalo, St. Louis, Kansas City, Cleveland, etc. I. R. Mankel, Box B., Upper Sandusky, O. 1-3

GOLDEN SEBRIGHT BANTAM eggs. Stock shipped on approval. Don Baird, Athens, Ohio. 1-3

BLACK COCHIN BANTAMS. Special sale of cockerels for 30 days. Walter Quintance, Box 145, Upper Sandusky, O. 1

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BEFORE YOU BUY Light Brahmans, get prices from John Blanchard, Columbus, Wisconsin. 11-15-tf

MY LIGHT BRAHMAS won 14 firsts, 10 seconds, on 26 entries, at the Bartholomew, Johnson and Shelby county fairs in hot competition. Write your wants. Lora Vandivier, Franklin, Ind. 11-1

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WOOD'S LIGHT BRAHMAS. Weigh, lay, win, pay. 300 young birds for sale and eggs from 12 choice matings from my winners at both New York Shows, etc. Harvey C. Wood, 227 River Road, Bound Brook, N. J. 12-2

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MAMMOTH LIGHT Brahmans. Winners at Indianapolis, St. Louis and Chicago. Stock and eggs. Geo. Layman, Greenville, Ill. 1-3

RIVER HOME STRAIN Light Brahmans, line bred from Madison Square and Chicago winners. Pens headed by and containing winners of firsts and specials at Indianapolis and Toledo. Earl Ohl, Route 1, Findlay, Ohio. 1

BUCKEYES.

BUCKEYES, FIFTEENTH YEAR, leading winners. Stock and eggs. Gardner Dunning, St. Mary's, O. 1-4

BUCKEYES—COCKERELS for sale. M. O. Perkins, Medina, Ohio. 1

BUCKEYE COCKERELS, \$3 each. H. V. Schoonover, Bishop, Ill. 1

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SICILIAN BUTTERCUP stock for sale at reasonable prices. This includes my last year's winners at New York, Philadelphia, Boston, Pottsville, Hagerstown and Lancaster. Write today. A. G. Hertzler, Lancaster, Pa. 11-1

BRYAN'S BEAUTIFUL Buttercups are better than ever. Cocks and hens, including my St. Louis winners for sale cheap to make room. Lynn Bryan, Webster Groves, Missouri. 12-15-1 yr

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BUTTERCUP HATCHING EGGS from excellent layers, \$2 and \$3, pen \$15. Knadel, Fort Jefferson Station, L. I., N. Y. 1-6

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ROSE COMB BLACK MINORCAS. Choice cockerels for sale. Same breeding, first prize cockerel and second prize pullet last Dayton, Ohio. Show. Phillip J. Minch, E. 97th St., Cleveland, Ohio. 1-3

S. C. BLACK MINORCAS. Large white eggs in numbers. Eggs \$1.50 per 15; \$3 per 100 prepaid. Myers & Garland, Lehighmasters, Pa. 1-3

ROSE COMB BLACK Minorcas exclusively. Stock and eggs for sale. Beller's Minorca Farm, Killbuck, Ohio. 1-4

SINGLE COMB BLACK MINORCAS, good shape, size, color. Cockerels, pullets, large egg laying strain. H. H. Wallis, Delavan, Wis. 1-4

SINGLE COMB BLACK Minorcas. Cockerels and cock birds. Eggs for hatching. Write for catalog. L. C. St. John, Waynesville, Ohio. 1-3

SINGLE COMB BLACK Minorcas. Choice cockerels, hens and pullets for sale. Eggs in season. W. E. Mansfield, 3411 Lafayette St., St. Joseph, Mo. 1

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WHITE MINORCAS, both combs. Champions at Madison Square and Chicago. 200 egg strain. Thos. Brogden, Rush Lake, Wisconsin. 11-1

S. C. WHITE MINORCA cockerels at \$1.50 to \$5.00 each. Louis Watermann, New Bremen, Ohio. 11-1

SINGLE COMB WHITE Minorcas. 16 years a breeder. Old and young stock. State what you want. Harry Leibold, Delaware, Ohio. 12-2

SINGLE COMB WHITE Minorca cockerels, \$3.00 and \$5.00. Shipped on approval. C. W. Rowland, La Place, Ill. 12-2

WHITE MINORCAS. New York, Hagers-town winners. Eggs, stock. Maurice Wingerd, Chambersburg, Pa. 1

ROSE COMB WHITE Minorca cockerels, \$3 to \$15. Purchase price refunded if not satisfied; \$3 cockerels excepted. Jersey Stock and Egg Farm, Tomah, Wis. 12-2

BUFF MINORCAS.

BUFF MINORCAS. Golden strain. Won 9 grand prizes at International Poultry Show. Stock and eggs for sale. William Williams, 1102 W. 52d St., Los Angeles, Cal. 1-3

BUFF MINORCAS. Peerless business fowl. Booking orders. Marble Benoit, Montello, Mass. 1-2

UTOPIA BUFF MINORCA eggs for hatching. Fred Smith, Morris, Ill. 1-3

MINORCAS—SEVERAL BREEDS.

R. C. BLACK and White Minorcas. Mrs. Geo. Clay, Savanna, Ill. 1

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SACRIFICE SALE OF BLACK Orpingtons—utility and exhibition. Foxhurst Farm and Rose strains. Closing out to devote full time to pastorate. Write for prices. Rev. Charles M. Kreidler, Elmira, N. Y. 1-3

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THIRTY-FIVE Single Comb Buff Orpington cockerels at \$2, \$3 and 5 each. Pullets \$1.50 each. Order quick. Mrs. W. T. Garner, Maple Lawn Stock Farm, R. 1, Crossville, Ill. 11-1

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S. C. BUFF ORPINGTON eggs for hatching. Cook and Sunsvick strains. Pen headed by grandson Champion New Yorker. Dr. G. E. Corwin, Canaan, Conn. 1-3

BUFF ORPINGTONS. Fancy birds \$2 on approval. Catalog free. Clarence Steckel, White Hall, Ill. 11-1

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BUFF ORPINGTON cockerels, big boned lads, \$1.50 and \$2, pullets 75c and \$1 each. Logan Baird, La Moille, Ill. 1

WANTED 100 GOOD Buff Orpingtons. Walter Bardsley, Neola, Iowa. 1-2

S. C. BUFF ORPINGTONS. Show birds and very choice breeders. Large light colored birds with fine heads and sound under. Very strong male line. Send for list. Howard H. Mutchler, Rochester, Ind. 11-1

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BUFF ORPINGTON COCKERELS, scoring 90 to 93½, \$3, \$5 and \$7. Satisfaction guaranteed. Richard Seward, Lewistown, Ill. 12-1

SINGLE COMB BUFF ORPINGTONS. Have fifty show pullets, ready now. Also first-class breeders. Will ship on approval. Cockerels in show shape December 1. Write me if you want fine birds. L. W. Crank, Elsberry, Missouri. 12-1

BUFF ORPINGTON COCKS, cockerels, \$2.00 up; trios, \$5.00. Odithia Farm, Route 3, Stanley, N. Y. 12-2

LOOK. CLOSING OUT all Buff Orpingtons. Hens and Pullets, \$2.00 each. Cocks and cockerels, \$2.00, \$3.00, \$5.00. B. S. Long, Pisgah, Iowa. 12-2

BUFF ORPINGTON COCKERELS \$1.50 and \$2. Mrs. Earl Sutherland, Coatesville, Ind. 12-2

GOLDEN FEATHER FARM S. C. Buff Orpingtons, Cook stock direct. Cockerels, \$4.00 and \$5.00 each; pullets and hens, \$2.00. Large and blocky; fine even color. Frank Myers, Oakwood, Ohio. 12-2

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BLUE ORPINGTONS. Extra fine birds reasonable. Rev. W. Berberich, Groton, New York. 11-15-tf

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BARGAIN SALE! 50 early large White Orpington cockerels and pullets, \$2.00 each. Gustav Keller, Mountain Home, Ark. 11-1

BARGAINS. Closing out sale. High class White Orpington hens, pullets, cockerels, \$2 and \$3 each. Brower & Son, Grafton, Ill. 11-1

WHITE ORPINGTON cockerels for sale. Kellerstrass and Cary strains. Will ship on approval. H. G. Doolittle, Knoxville, Iowa. 11-1

ROSE COMB WHITE Orpington cockerels \$2 up. Sparling Sisters, Garden Grove, Iowa. 11-1

WHITE ORPINGTON COCKERELS and pullets, \$1.50 and \$2.50. Mrs. J. E. Biehl, Queen City, Mo. 12-2

SINGLE COMB WHITE Orpington cockerels for sale. March and April hatched, from my two hundred egg record pens, at \$5.00 each. Satisfaction guaranteed. Also day old chicks and hatching eggs in season. F. E. Parkler, 1528 Portland Ave., Chicago Heights, Ill. 12-2

WHITE ORPINGTONS. Choice pullets, yearling hens and cockerels for sale. Prices reasonable. Large, vigorous, farm reared stock. Best strains. Eggs, \$5.00 per 100. Sunnyside Orpington Farm, Sandwich, Ill. 12-2

ROSE COMB WHITE Orpingtons. Yearling breeders, now laying, for sale. Earl Cook, Munnsville, N. Y. 11-1

SINGLE COMB WHITE Orpingtons. Cook and Owen's strain. Choice stock reasonable. August W. Schroeder, St. Peter, Ill. 12

ROSE COMB WHITE Orpingtons, fine birds. Prices reasonable. B. Wenk, Washington, Ill. 11-1

EGGS and STOCK, 8 one year old roosters, 16 hens. Kellerstrass Virgin stock. They are beauties, photo on request. W. T. Spence, Crewe, Va. 11-1

WHITE ORPINGTONS. Vigorous cockerels, dams highest record hens, Midlothian Farm, \$5. G. H. Harper, Washington, C. H. Ohio. 11-1

S. C. WHITE ORPINGTONS. My birds have low down, true Orpington type. Great layers. Have five pens of grand birds, mated right. Write for mating list. Edward Witt, Sidney, Ill. 1-9

WHITE ORPINGTON cockerels, hens, pullets, \$1 to \$2. Birds from prize winners scoring 95 3-4. N. Roy Bowman, Albany, Wisconsin. 11-1

WHITE ORPINGTONS. Extra fine birds in cockerels and pullets. Henry Brockschmidt, Freistatt, Mo. 1

I HAVE HAD a heat stroke. I am unable to attend to my birds. Will sell at a sacrifice 21 hens, 6 cock birds, 9 pullets, 8 cockerels. Virgin Stock of \$50 pen, Keller-krass strain. W. T. Spence, Crewe, Va. 1

SINGLE COMB WHITE Orpingtons. Choice breeders. Show birds at moderate prices. Satisfaction guaranteed. E. G. Holverstott, Kenton, Ohio. 1-3

WHITE ORPINGTON WINNERS. Best kendals. Bargains. Stock, eggs. Mrs. Amos. Kendallville, Ind. 1-3

WHITE ORPINGTONS from imported stock. A few cockerels for sale. Eggs. Brookwood Farm, W. T. Morgan, Prop., Mooresville, Ind. 1

WHITE ORPINGTONS. COCKS and cockerels from some of the world's most noted prize winning pens. Will ship on approval. Eggs, fancy and utility, a specialty. Prices reasonable. E. C. Goode, Boydton, Va. 1

EGGS FOR HATCHING from real White Orpingtons, large bone, high scoring birds. Book your order now for eggs. 2 doz. pullets for sale. Prices quoted on application. Guy Modglin, Metropolis, Ill. 1-3

A FEW CHOICE Single Comb White Orpingtons, one and two year old hens at \$2, for quick sale. F. H. Boynton, Charitan, Iowa. 1

BARGAINS IN high scoring and utility White Orpington eggs, \$2.50 per 15. George Layman, Greenville, Ill. 1-2

FANCY BIG SINGLE Comb White Orpingtons from pure English imported stock. From immense choice cock bird and extra fine large hens. Cockerels, pullets at one-fourth price. Pherson, Bainbridge, Ind. 1-3

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PARTRIDGE ORPINGTONS. Stock and eggs. Catalog free. Hacker Poultry Co., Marissa, Ill., Box C. 11-1

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FOR THE BEST Orpingtons, any variety, send to their originators. William Cook & Sons, Box A., Scotch Plains, New Jersey. Catalog free. 11-15-16

ORPINGTON BARGAINS. White, Buff, Black and Blues. Breeders, \$2.00 up. Show birds reasonable. Winnings and bargain list free. Satisfaction guaranteed. Progressive Orpington Farm, Box A, Fort Gage, Ill. Beare, prop. 12-2

ROSE COMB BUFF. Black, White Orpingtons. H. C. Faulkner, Marshall, Mich. 12-2

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WHITE CRESTED BLACK POLISH, single birds, pairs, and trios. Show birds and breeding stock. Young and old none better, few as good. Write for wants Chas. L. Seely, Afton, N. Y. 11-1

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IMPERIAL WHITE PROGRESSIVES. The newest thing in poultry. Large, handsome, splendid layers. Wm. Wells, Ashaway, R. I. 1

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CROWTHER AND BEAN Reds, dark color, long type. Prices reasonable. Satisfaction always guaranteed. F. Lind, 4542 North Keating Ave., Chicago. 11-1

SINGLE COMB REDS of highest quality. Stock and eggs for sale, at all times. Mrs. Louise Schroeder, St. Peter, Ill. 11

LARGE BONED BRILLIANT deep red S. C. Reds; long back, long tail good breeding and show stock, \$2.50, \$3 and \$10 each. Guaranteed to suit. Lela Osterfoss, Hedrick, Iowa. 11-1

SINGLE COMB REDS, cockerels and pullets, show birds, \$5. Some State Fair winners. Thomas Stallings, Granite City, Illinois. 11-1

SINGLE COMB RHODE Island Red cockerels. Extra quality. Write for prices. Henry Kelting, Martinton, Ill. 11-1

IMPERIAL REDS. Large vigorous cockerels from my Imperial laying strain now ready. Choice stock very reasonable \$1.50 up. Limited number of fine breeding cocks and hens. W. L. Miller, German Valley, Ill. 11-1

ROSE COMB REDS, 11 years' exclusive breeder. If you need anything in Reds, it will pay you to write me before you buy. Money back if not satisfied. Garnet Grange Poultry Yards, Westfield, Ind. 11-2

ROSE COMB REDS. Great laying strain. Choice cockerels, pullets, hens, \$1 each up. Circular. Albert Daily, Frankfort, Ohio 11-1

SINGLE COMB RHODE Island Red cockerels, scoring to 92 1-2 from high record stock, \$2 each. Winners also at reasonable prices. Circular free. J. H. Marshall, Juneau, Wis. 11-1

ROSE COMB RHODE Island Red cockerels of good size, shape and color that will make grand breeders, for sale, from three to five dollars each. J. M. Holt, Marshalltown, Iowa. 11-1

R. I. REDS, both combs. Fancy birds \$2 on approval. Catalog free. Clarence Steckel, White Hall, Ill. 11-1

ROSE AND SINGLE Comb Reds, Buschmann strain. Choice stock, reasonable. August W. Schroeder, St. Peter, Ill. 11

SINGLE COMB REDS, dark red, good shape and red eyes; \$3, \$5 and \$10; trios \$7 to \$15; pens \$10 to \$25. Mrs. C. Frank Spurling, Box 49, Lovington, Ill. 1

COCKERELS OF QUALITY; mature, vigorous, healthy. \$2 to \$5. Meadow Farm, Hartsdale, N. Y. 1

ONE HUNDRED LARGE Single Comb Red cockerels, all bred from exhibition stock; fine color, fine type; \$3 and \$5 each. Satisfaction guaranteed. Scott Covatt, Box A, Council Bluffs, Iowa. 1-3

ROSE COMB RHODE ISLAND Red cockerels from blue ribbon winners, \$2 to \$5 each. Shipped on approval. Eggs \$2 per 15. Quality is our hobby. Fred R. Thornton & Son, Streator, Ill. 1-3

EXHIBITION SINGLE COMB Reds. "Square Deal." Rev. Alfred Smith, West Union, Ohio. 1-3

S. C. RHODE ISLAND Reds, Scranton strain. Twenty-five nice dark red large bone cockerels. Numbers of hens for sale. Prices reasonable. Eggs in season. C. A. Cutchins, Franklin, Va. 1-3

FOUR DOLLARS PER HUNDRED EGGS. Welda's Famous S. C. Reds. 15 special mating eggs guaranteed to produce winners at any show. \$3. Startling price smasher catalog free. Welda, Seville, Ohio. 1-3

TOMPKINS' SINGLE COMB Reds bred for heavy Winter laying. Big winners at Washington shows. Country raised. Best eggs \$2 for 15; \$8 for 100. Circular free. Chas. S. Moore, Bethesda, Md. 1-3

EXCELLENT STRAIN UTILITY S. C. Reds. Large size, good color, heavy layers. 15 eggs \$1.50; 50 eggs \$3.50. A. A. Truby, Lombard, Ill. 1

EXTRA CHOICE SINGLE COMB Red cockerels. Big, vigorous birds, bred from New York winners. Shipped on approval. Clarence B. Utter, Sayre, Pa. 1

EGGS FOR HATCHING from high class Single Comb Reds, \$1.25 per 15. Red Feather Farm, Edgerton, Ohio. 1-3

ATTENTION — CHOICE BREEDING cocks, cockerels, hens, pullets, pens. Rose Comb at bargain prices. Going out of business. While they last. F. L. Snedeker, East Orange, N. J. 1-3

MY SINGLE COMB REDS won at Evansville, Louisville and Mt. Carmel. Extra choice breeders \$2 up. Philip A. Seifert, Mt. Vernon, Ind. 1-3

FOR SALE 50 FINE S. C. R. I. Red cockerels. Aristocrats. Good and well developed. Very finely colored. At prices that you can stand. Leon H. Roueche, Guys Mills, Pa. 1-3

200 EGG STRAIN S. C. R. I. Red cockerels bred from hens with a trap-nest record of 200 eggs. Regular \$15 grade, while they last \$5. Dawdy & Dawdy, Greenville, Ill. 11-1

FOR SALE QUICK! Single Comb Rhode Island Reds, fifty pullets, ten cockerels of quality and type. Price low if sold before March 1st. Birds sold on approval and satisfaction guaranteed. J. W. Brinser, Richmond, Va. 12-2

COCKERELS. SANBORN S. C. Reds, special matings; dams 230, 240 eggs. Reasonable. Circular. William Jacobs, Salem, Ohio. 12-2

UMBARGER'S GARNET REDS. Choice April hatch, vigorous, type S. C. R. I. Red cockerels. Record laying and show strains. Brilliant surface, red to skin five-point combs. Russell H. Umbarger, Woodland Home Farm, Westfield, Illinois. 12-2

CHOICE UTILITY BIRDS, both combs. Bred from Chicago, Boston, etc., winners. Cockerels, \$2.50 to \$5.00; pullets, \$1.50 to \$3.50. Order direct from ad. M. Schmidt, Chaska, Minnesota. 12-3

SINGLE COMB REDS of highest quality. Beautiful, dark, brilliant red color, of large size, good type. Heavy laying strain. Fine breeding cockerels for sale. Mating list free. G. A. Haper, Batchtown, Ill., R. 8. 12-2

J. POORMAN'S MIDLOTHIAN strain, 200 eggs a year. Rose Comb Rhode Island Reds, March and April hatched cockerels, \$3.50. Trap-nested stock only. Arthur M. Hanson, Montevideo, 3 inn., R. 1. 12-2

KRUEGER'S ROSE COMB REDS won at seven state shows, now again at Panama Exposition, Des Moines and Chicago Coliseum shows. Birds both sexes for sale. F. C. Krueger, Charles City, Iowa. 1-3

RHODE ISLAND WHITES.

RHODE ISLAND WHITES. Stock for sale. \$6 per trio, \$10 per pen. Rose and Single Comb. Henry Elchelmann, Waterloo, Illinois, R. 4. 11-1

SHOREWOOD RHODE ISLAND WHITES. Leading business-bred strain of America's "Best Yet" breed. Record 261, 242, etc. Stock for sale in both combs. Shorewood Farms, Box J., Saugatuck, Mich. 11-1

HEADQUARTERS FOR ROSE Comb Rhode Island Whites. I am the oldest breeder of this breed. Eggs and stock for sale from this wonderful laying strain. Free catalog. C. A. Foster, Colonial Poultry Yards, Akron, Ohio. 1-3

ROSE COMB RHODE ISLAND Whites. At the Rhode Island White Club Show at Louisville, Ky., November 22-27, 1915, in competition with best Whites in the world. I won 1st, 2d hens, 1st pullet, 5th cock, 2d pen. Every bird I entered won. Write for mating list. J. T. Patrick, Route 4, North Vernon, Ind. 1-3

ROSE COMB RHODE ISLAND Whites, bred for heavy egg production. Pen eggs \$2 per 15 and up. Range flock eggs 15 for \$1.25; 50 for \$3; 100 for \$6; chicks 25 lots and up 20 cents each; cockerels \$2, \$3.50 and up; cocks \$3.50 each and up. Fredk. Havig, Route 2, Osage, Iowa. 1-3

BARRED ROCKS.

STAMPER BARRED ROCKS are better. Every bird shipped on approval. Write about prices. M. L. Stamper, Clifton Hill, Missouri. 11-3

BARRED ROCK cockerels, hens pullets, \$1.50 each. Won 1st cockerel Bushnell, score 92 1/4. Edwin Laux, Bushnell, Ill. 11-1

BARRED ROCKS, exhibition cockerels, breeders, layers. W. Coffman, Benton Harbor, R. 3, Mich. 11-1

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E. B. THOMPSON'S RINGLETS direct. Extra choice cockerels and females, big, vigorous stock; bred from winners, best New York winning blood from proven breeders. Have spared neither pains nor money. Wm. Huckle, Waverly, N. Y. 11-1

VREELAND'S BARRED ROCKS. Birds of quality, bred for exhibition and utility purposes. Some grand cockerels and pullets, bred from my silver cup winners and heavy layers. Pullet line. A. L. Vreeland, Nutley, N. J. 12-2

FINE LARGE FARM raised Ringlet Barred Rock cockerels, full of vigor, \$3.50; fully matured pullets, \$3.00. Bert Hicks, Canandaigua, N. Y. 12-2

BARRED ROCKS. Thompson, Hawkins and Bradley strain. Shipped on trial, approval or C. O. D. Pullets and cockerels, \$1.00 each. Mrs. Edith Chelton, Landonville, Md. 12-2

BARRED ROCKS FINE cockerels, \$2.50 and \$3.00; pullets, \$1.50 and \$2.00. Dr. Milbrandt, Crosswell, Michigan. 12-2

BARRED ROCK THOMPSON and Latham strain. Cockerels shipped C. O. D. Stirdivant Farms, Sheboygan Falls, Wis. 12-2

PARKS' 200-EGG BARRED Rocks. Pens headed by sons of 232, 238, 246, 247 and 253-egg hens. 15 eggs, \$1.50; 50, \$4.50. Also cockerels. Circular free. Frederick Matteson, 3808 Woodley Lane, Washington, D. C. 12-2

BARRED ROCKS. Bradley strain direct. Snappy, vigorous. E. C. Pendleton, Golden, Ill. 12-2

BARRED PLYMOUTH ROCKS, E. B. Thompson strain. Fine vigorous cockerels of either mating, good shape, nicely barred. Price, \$3.00 to \$5.00. Sent on approval. Mrs. E. A. Oliver, Belleville, Wis. 12-2

BARRED ROCK COCKERELS, both matings, from high priced pens, direct from Thompson last spring, \$1.50 to \$5.00. V. I. Hostetler, Nappanee, R. 5, Ind. 12-2

WINNERS—270-EGG record. Catalog. W. W. Kulp, Pottstown, Pa., Box 70. 12-2

"RINGLET" BARRED ROCKS sold on approval. Both matings. Choice show birds and breeders, \$2 to \$10 each. Mated pens (four females and male), \$10 to \$20. Circulards and photos. John Northon, Clare, Michigan. 12-3

RINGLET BARRED ROCKS. Large, vigorous, farm range cockerels that win and produce winners. Both matings. High quality birds at bargain prices. Winnings free. Mrs. J. M. Kemp, Kenney, Ill. 12-2

BIG THOMPSON RINGLET Barred Rocks. Mrs. James Whitesides, Memphis, Ind. 12-2

J. W. PARKS' Barred Rocks, pullets and cockerels. April hatched. Brambel-Bush Poultry Farm, Evanston, Ill. 12-1

BARRED ROCKS—Stock and eggs. Indianapolis 1914 and 1915, state champion cockerel, 1st pen, 2d pen, 1st cockerel, 1st pullet, 2d and 3d hen. A limited number of birds for sale. W. H. Goddard & Sons, Orchard Place, Riverside, Muncie, Ind. 1-3

BARRED ROCKS, PRIZE winning Thompson's Ringlets. Both matings. Stock for sale. Eggs in season. F. L. Gould, Table Grove, Ill. 1

MRS. ARCH LAGEL, breeder of Barred Rocks. Stock and eggs for sale. Depauw, Ind. 1

BARRED ROCK EGGS from handsome, splendid layers. If you desire quality and low prices write me. Veit Schoenberger, Glendale, Ohio. 1-3

BARRED ROCK pullets for sale that will make splendid layers. Also incubator eggs. L. F. Thompson, Hope, Ind. 1

FAIR VIEW BARRED Plymouth Rocks and Single Comb R. I. Reds. Splendid layers. Winners New York, Albany, Syracuse, Catskill. Eggs \$2 and \$3 setting. Fredrick Coons, Greendale, N. Y. 1-3

PRIZE WINNING RINGLET Barred Rocks. Extra heavy laying strain. Unusual bargains in cockerels. Eggs \$2.50 setting. William Kendall, Greenville, Ill. 1-3

E. B. THOMPSON'S Ringlets direct. Pullet-bred cocks \$2.50 and \$4; cks. \$1.50 and \$2; pullets \$1. Amos A. Hieser, Dewey, Ill. 1

DON'T LOOK FOR LARGE Barred Rock ads. Buy cockerels and females from our cockerel bred winners at Galesburg, Quincy, Jacksonville and other shows. Write me and find out who is George A. Coffman, Rushville, Ill. 1-3

BRED TO LAY BARRED Rocks. Cockerels and eggs for sale. John Watt, Forest, Ill. 1-3

BARRED ROCKS, THOMPSON and Latham strains. Cockerel and pullet bred cockerel to offer. Egg orders booked. Mart Rahn, Clarinda, Iowa. 1

COLUMBIAN PLYMOUTH ROCKS.

COLUMBIAN ROCKS. First prize winners Illinois State Fair, 1915. Three silver cups, 1914. Cockerels, pullets and hens for sale. Show birds or breeders. Eggs for hatching. Clarence Atchison, Jerseyville, Illinois. 12-2

COLUMBIAN ROCKS. The laying kind. Birds that are right at a price that is right if taken at once. Shipped on approval. Watch my winnings. Clarence Johnson, Attica, Ind. 12-2

COLUMBIAN PLYMOUTH ROCKS—Winners and layers. See ad. on page 4. 1-16-1 yr

COLUMBIAN ROCKS. Lay and win. Eggs \$3, \$2 and \$1 per 15. Go. Clotzbah, Golttry, Okla. 1-4

AM DISPOSING OF my entire flock of Columbian Plymouth Rock show birds. Winners Coliseum, Minneapolis, Cleveland, etc. Can give you anything you wish. Wm. Hoeschler, La Crosse, Wis. 1

WHITE PLYMOUTH ROCKS.

WHITE ROCKS. Fine early hatched pullets and cockerels. Also yearling stock. Send for circular. Hoch & Frederick, Box O. Chambersburg, Pa. 11-1

WHITE ROCKS that have quality. 200 head including many prize winners at bargain prices. Carl Sweet, Shelby, Ohio. 11-1

WHITE ROCKS. Trap-nested, heavy laying strain. Stock for sale. Write for price list. Hillview Poultry Yards, Box A, Batesville, Ind. 11-2

GRAVELDING'S FREE RANGE White Rock cockerels. \$3 up. Bred from prize winners. Write your wants. Satisfaction guaranteed. E. H. Graveling, Earlville, N. Y. 11-1

WHITE ROCKS, Fishel strain. Choice stock reasonable. August W. Schroeder, St. Peter, Ill. 11

FISHEL WHITE ROCK cockerels and pullets from our prize winning pens. Large, vigorous, well-grown birds, \$1.50 and up. Priced low for early sale. Roselawn Poultry Yards, South Bend, Ind. 11-1

WHITE ROCK COCKERELS, \$1.50 to \$3 each; \$5 to \$10 quality. Woodford Poultry Farm, Station M. Cincinnati, Ohio. 11-1

WHITE ROCK COCKERELS, Fishel direct, farm raised, \$2.00. Mrs. Ernest Francis, Towanda, Ill., Route 1. 12-2

DAILEY'S WHITE ROCKS. Choice cockerels from selected layers. \$2.00 each; 3 for \$5.00. N. E. Dailey, Hornick, Ia. 12-2

"COLFAX" WHITE ROCKS improve your flock. Husky, hardy, healthy pullets, cockerels, cocks, hens. Write your wants. Please do! T. F. Richardson, "Colfax," Evanston, Illinois. 12-2

WHITE ROCKS, Midlothian-Fishel strain direct. Heaviest layers. Choice trap-nested breeders. Satisfaction guaranteed. Circular free. B. A. Alderson, Salem, Illinois. 12-2

WHITE ROCKS, CHAMPION winners at St. Louis, Kansas City, American Royal, Missouri State Show, Kansas State Show, Oklahoma State Show, Missouri Valley Exposition, and other prominent shows. We sold birds for St. Louis, also the World's Fair at San Francisco this year. Our strain wins in any show. Satisfaction guaranteed. We take no back seat for quality. A trial order will convince. Send for special sale list. Eggs \$5.00 per 15 in season. Wible's White Rock Farm, Chanute, Kansas. 12-2

FISHEL WHITE ROCKS direct; farm raised. Prominent winners under prominent judges. In health, constitutional vigor and Standard requirements they will please you. Splendid breeding cockerels, \$2.00, \$3.00 and \$5.00 each. A few choice ones \$8.00 and \$10.00 each. Satisfaction guaranteed. Booklet free. Plummer McCullough, Poultry Judge, Mercer, Pa. 12-15-1 yr

FISHEL WHITE ROCKS blue ribbon winners at several large shows. Exhibition breeders and utility. Free catalog. Whiteview Poultry Yards, Mishawaka, Indiana. 12-2

HIGH CLASS WHITE ROCKS, U. R. Fishel strain direct. Eggs of great laying strain, 15 eggs \$1; 50 for \$3; 75 for \$4.50; 100 for \$5, 200 for \$10; 500 for \$25, fresh laid. Cockerels, hens reasonable. Henry Heitkamp, C 91, New Bremen, Ohio. 1-4

WHITE PLYMOUTH ROCK cockerels from stock of 200 egg records. Very vigorous. \$5 each. Hatching eggs 15c each. Day old chicks 25c each. All from my 200 egg strain. M. A. Stockley, Winnetka, Ill. 1-3

WHITE PLYMOUTH ROCKS—The kind that win. Eggs \$1.50 per 15; \$8 per 100 prepaid. Myers & Garland, Lehmasters, Pa. 1-3

WHITE PLYMOUTH ROCKS. Best laying strain. Eggs for hatching \$1.50 per 15; \$6 per 100. Day old chicks 15 cents each; \$14 per 100. Mrs. Gilbert Luyster, Franklin, Ind., R. 4. 1-3

NOBILITY WHITE ROCKS. Greatest of general purpose strains; begin laying at 5 months; nearly non-setting. Every bird guaranteed satisfactory. Pierce & Cushion, Wellington, Ohio. 1

BUFF PLYMOUTH ROCKS.

WARD'S BUFF ROCK show birds \$5.00 each. R. W. Ward, Normal, Ill. 11-1

ASTLE'S QUALITY BUFF Rocks, Poley strain. Have won wherever shown. Stock for sale. Prices reasonable. Milan C. Astle, Momence, Ill. 11-1

BUFF ROCKS. Poley's strain. Fine old and young birds for sale. \$1.50 up. Satisfaction guaranteed. J. A. Heiser, Fisher, Illinois. 12-2

FIELD'S BUFF ROCKS won honors at Boston, Madison Square Garden, 1915. Cocks, hens, cockerels, pullets for any competition. Field, Somers, Conn. 12-3

MYRON WEAVER, Lewis, Iowa, exclusive breeder of Buff Rocks, winners at Omaha and Iowa State Fair and all local shows past 4 years. Stock and eggs for sale. Prices reasonable. 1-3

BUFF ROCKS, WINNERS and layers. Great shape, size and color. Cocks, cockerels, hens, pullets, chicks and eggs for sale. Chas. C. Reinehl, North Lawrence, Ohio. 11-4

BUFF ROCKS, WINNERS Madison Square Garden, Boston, Lebanon, Reading. Young and old stock for sale cheap. Ship C. O. D. Gem Poultry Farm, Newmanstown, Pa. 1

PARTRIDGE PLYMOUTH ROCKS.

PARTRIDGE PLYMOUTH ROCKS. My birds have won at Quincy, Centerville, Des Moines, Davenport, Kansas City. Have young and old stock for sale. Prices right. Satisfaction or money back. Write me your wants. Dr. Statler, Granger, Mo. 11-1

PARTRIDGE ROCKS, cockerels and pullets. Good breeders, \$1. John Saam, Mohawk, Mich. 11-1

PARTRIDGE PLYMOUTH ROCKS from strictly trap-nested high scoring parent stock. Bargains on young pairs, trios and pens for a limited time. Describe your wants. J. A. Hentges, LeMars, Iowa. 11-1

PARTRIDGE PLYMOUTH ROCKS. Fine breeding and exhibition stock. Prices right and all stock shipped on approval. I can please you. Write your wants. L. C. Smith, Cushing, Iowa. 11-1

BURKHART'S PARTRIDGE Rocks win at Illinois state fair. A few cockerels and pullets for sale. Six young pens at \$12 per pen. Wm. Burkhardt, Sandwich, Box 410, Illinois. 11-1

PARTRIDGE ROCKS, Noftzger strain, direct. Range raised from prize winners. Correct color and shape, large vigorous stock. Guaranteed to please, \$2 each. Write me your wants. Geo. Miller, Nappanee, Ind. 11-1

AMERICA'S PROVEN CHAMPION Partridge Rocks and Bronze Turkeys. See our adv. on page 69. 5-15-tf

PARTRIDGE PLYMOUTH ROCKS of the highest quality. Can furnish show birds and good breeders at reasonable prices. True Rock type and correct markings. Eggs in season, \$3.00 per 15, \$5.00 per 30. Will L. Clark, Sullivan, Ohio. 7-13-tf

"RIVERDALE" PARTRIDGE Rocks have just won 20 ribbons, 4 sweepstakes. Stock for sale. R. F. Schuler, Roann, "Riverdale," Ind. 12-2

SPLENDID PARTRIDGE ROCK pullets from New York State Fair and Detroit show winners. \$1.50 up. Cyrus Pattee, South Bend, Indiana. 12-2

PARTRIDGE ROCKS from noted winners on approval. Price right. West View Farm, Columbia City, Ind. 1

GOLDEN BARRED ROCKS.

GOLDEN BARRED ROCKS. Plumage buff and white barring. Eggs \$3. Two settings \$5. Parcel Post. L. E. Altwein, St. Joseph, Mo. 1-3

SPANISH.

WHITE FACED BLACK Spanish. Choice stock from blue ribbon winners. J. R. Gallo-way, Elwood, Ind. 11-1

RED CAPS.

ENGLISH RED CAP cockerels for sale from prize winning stock, \$2 up. Anton Eckhart, Haubstadt, Ind. 1-2

RED CAPS, from first prize winners, \$2.00 to \$10.00. S. Jones, Church Creek, Maryland. 1

RED SUSSEX.

RED SUSSEX, deep rich red cockerels of best blood for sale. Write, Sussex Yards, Alma Center, Wis. 11-1

RED SUSSEX FARM'S Red and Speckled Sussex won 3 championships; 6 firsts, 1 second and a 5th on 8 entries at Club Show, Madison Square Garden, New York, 1915. Choice show birds and breeders bred from these and our 39 Chicago winners. Write for prices. See large ad. Red Sussex Farm, Marysville, St. Clair Co., Mich. 6-14-tf

FOR SALE—FINE Red Sussex cockerels. Three to ten dollars. Thomas Murdoch, Galesburg, Ill. 1

RED SUSSEX. My mating list ready about January 1st. Write for it. Have imported 20 birds this fall, which will help make up my pens. W. W. Graves, Jefferson City, Mo. 12-2

RED SUSSEX EGGS for hatching; quality Mahogany Reds; carefully mated; many first prize winners. Send for descriptive Mating List. Eggs \$5 and \$3 per 15. Zeigler & Eldridge, Plymouth, Wis. 1-6

SPECKLED SUSSEX.

SPECKLED SUSSEX. Get the blood produced by "King," the champion Speckled cock of the world. Limited setting of eggs after February 1. Write for prices. T. Cadwallader, Doylestown, Pa. 12-2

SPECKLED SUSSEX. Choice stock priced reasonably. Rev. W. Berberich, Groton, New York. 11-15-tf

LET ME QUOTE you prices on eggs for hatching. My birds are all imported. Aug. D. Arnold, Dillsburg, York Co., Pa. 1

SUSSEX—SEVERAL VARIETIES.

RED AND SPECKLED Sussex for sale. Have ninety large-framed fine colored cockerels, from imported stock. Very low prices for such quality. Eggs in season. Walter G. Brown, Ipswich, Mass. 12-2

BUFF WYANDOTTES.

BUFF WYANDOTTES. Successfully bred sixteen years. High-class exhibition and utility combined. F. L. Waterman, Barrington, Ill. Central Vice-President American Buff Wyandotte Club. 11-1

NOWATA FARM BUFF Wyandottes are pure Golden Glow strain. Clean sweep in Erie, January, 1915. Cockerels for sale, also two cock birds. Eggs in season. R. A. Page, North East, Pa. 12-2

COLUMBIAN WYANDOTTES.

COLUMBIAN WYANDOTTES that showed their superior quality by winning more first, second and third prizes this season at Chicago, Minneapolis, Winnipeg and Minnesota State Fair, than all my competitors combined. Mating list free. Geo. A. Kersten, Washburn Park, Minneapolis, Minn. 3-15-1yr.

COLUMBIAN WYANDOTTES. Another complete victory for Michigan's champion strain. Michigan State Fair September, 1915. Cockerels, pullets, winners, all premiums, large, vigorous, farm reared birds, for exhibition and breeding purposes, correct type, beautifully marked. Also cocks, hens, heavy trap-nested layers. Prices reasonable. Arthur Schaack, 605 Rohms Ave., Detroit, Mich. 11-1

COLUMBIAN WYANDOTTES (Kersten strain). Show birds and breeders, \$2 to \$5. Birds scoring 92 to 93% under Heilmich, Heck and Klein. Satisfaction guaranteed. Eggs, \$2 to \$5. J. M. Harriss, Benton, Ill. 12-2

FOR SALE. Columbian Wyandottes, yearling hens, score 90, or better, \$3 each. Cockerels same. Order from this "ad." Good breeders. Send order before all are gone. Aaron J. Felthouse, Elkhart, Ind. 12-2

COLUMBIAN WYANDOTTES stock for sale. Pullets laying at five months; five-pound cockerels at five months. No better stock anywhere. Write me. Foot and mouth prices and satisfaction. S. M. Watkins, Walnut, Ills. 12-2

COLUMBIAN WYANDOTTES. Three hundred choice Columbian Wyandottes. In both old and young stock. Single birds, trios and pens. Six exhibition cock birds that can win the blue. Let me know your wants. Purchase price refunded if not satisfactory. Hillsdale Farms, L. Box 34, Hillsdale, Mich. 1

PRIZE WINNING COLUMBIAN Wyandottes. A few choice hens, pullets and cockerels for sale. Booking orders for eggs. Miss M. Doll, Frankfort and Ewing Ave., Louisville, Ky. 1-3

COLUMBIAN WYANDOTTES exclusively. Choice stock for sale. Eggs and chix in season. Mating list free. Mrs. Jacob Gerig, Wayland, Iowa. 1-3

GOLDEN WYANDOTTES.

GOLDEN WYANDOTTES for sale. Cockerels and pullets. H. C. Moeller, Wheeler, Ill., R. 1. 10-1

HUNTER'S GOLDEN WYANDOTTES are winners at Pittsburgh Exposition, Madison Square Garden, etc. Breeding stock for sale reasonably. Exhibition stock a specialty. Booklet free. S. J. Hunter, Washington, Pa., Route 10. 10-1

PARTRIDGE WYANDOTTES.

QUALITY PARTRIDGE Wyandottes, young stock for sale. James L. Coulter, New Wilmington, Pa. 11-1

PARTRIDGE WYANDOTTES sent on approval that have the right color and penciling. Sold at a sacrifice. James Schrubbs, Urbana, Ohio. 12-2

PARTRIDGE WYANDOTTE cockerels for sale. (Premier strain.) Prices reasonable. F. S. Lantz, Kokomo, Ind., R. 6. 1

PARTRIDGE WYANDOTTES. Just won the Coliseum show, Chicago, first cock, second cockerel on three entries. Fine lot of cockerels sired by winning cock. Eggs in season. W. W. Day, Janesville, Wis. 1-3

SILVER WYANDOTTES.

SILVER WYANDOTTES exclusively from Buffalo, Williamsport, Allentown, Philadelphia and Madison Square winners. 600 to select from. Beautifully laced, large and vigorous birds all farm raised. M. H. Leidy, Souderton, Pa. 11-1

SILVER WYANDOTTES exclusively. Blue ribbon winners for 15 years. Illinois State show 1914, seven entries, 4 firsts; 3 seconds; 3 specials; champion hen. Heifrich Brothers, Hammond, Ill. 11-1

SILVER WYANDOTTES. Tarbox strain. Choice stock reasonable. August W. Schroeder, St. Peter, Ill. 11

SILVER LACED WYANDOTTES exclusively. World's famous Tarbox and Steinmesch strains. Prize winners, great layers. Cocks and cockerels, \$2.00 to \$5.00; pullets, \$1.50. Satisfaction guaranteed. James Leggett, Hornsby, Ill. 12-2

SILVER WYANDOTTES exclusively. Good layers and well marked. Cockerels and pullets for sale at \$1 to \$3 each. Samuel Schroeder, Altamont, Ill. 1-4

SILVER LACED WYANDOTTE cockerels at \$3. Will score 86 or better. Eggs for hatching, \$1 per 15. U. Guy Eby, Cassapolis, Mich. 1-3

SILVER WYANDOTTES. Beautifully laced, large and vigorous. Pullets and hens, \$1.25 to \$3. Satisfaction guaranteed. J. A. Beall, Modoc, Ind. 1

SILVER LACED Wyandotte hens and cockerels for sale and eggs in season. Mrs. C. W. Whitham, Fairfield, Iowa. 1-3

WHITE WYANDOTTES.

WHITE WYANDOTTE breeding cockerels. Healthy, vigorous free range raised at let live prices. N. E. Robart, Caledonia, Mich. 11-1

CHOICE WHITE WYANDOTTES very reasonable. Satisfaction assured. J. E. Hood, Coulterville, Ill. 11-1

IMPERIAL WHITE and Black Wyandottes. High-class exhibition and utility stock from our La Crosse, Duluth, Buffalo, and New York winners. Ritter's Wyandotte Farm, La Crosse, Wis. 11-1

WHITE WYANDOTTES. Martin and Fishel strain. Choice stock reasonable. August W. Schroeder, St. Peter, Ill. 11

WHITE WYANDOTTE, pullets, hens, \$1.50 cockerels, \$2 to \$5. Frank Hardwidge, Poneto, Ind. 11-1

FARM RAISED WHITE Wyandotte stock of all kinds for sale reasonable. Write your wants. C. E. Van Buren, Victoria, Ill. 11-1

STOCK FROM CHICAGO Coliseum winners, \$5 and up. Write for prices on eggs. F. M. Eakin, Box A, Bucyrus, Ohio. 1

WHITE WYANDOTTES. Utility stock standard breeders and exhibition birds. Prices reasonable. G. A. Haper, R. 3, Batchtown, Ill. 1-3

WHITE WYANDOTTES. FISHEL strain. Cockerels and pullets, choice thrifty stock from heavy layers. Eggs for hatching. Satisfaction guaranteed. Edw. C. Wiesenborn, Grand Chain, Ill. 1

WHITE WYANDOTTE cockerels. High class exhibition and utility stock. Bred from winners and will produce winners. Dr. Rolla Hook, Logan, Iowa. 1

W. S. BOWERS & SONS, Aledo, Ill. Quality White Wyandottes. High scoring prize winners. None whiter. Satisfaction guaranteed. 1

EIGHT NICE HENS and pullets and one yearling cock bird. Good ones, \$10. A. J. Foster, Carpenter, Ohio. 1

HACKER'S WHITE WYANDOTTES. Thirty good cockerels for sale cheap, if taken soon. W. P. Hacker, Milledgeville, Ill. 1

WHITE WYANDOTTE COCKERELS from heavy laying, trap-nested hens. Penn. Poultry Farm, Poorman, Martin strains, \$2.50 up, depending on age and strain. Postal will bring photo. C. W. Zelle, Appleton, Wis. 1-2

WHITE WYANDOTTE cockerels and pullets, \$1.50 each. Wm. Shuler, Berrien Springs, Mich. 1-2

WELLS' WHITE WYANDOTTES; famous laying strain. Eggs from choice matings of splendid layers, trap-nested, \$2 per 15; \$3.50 per 30; \$5 per 50; \$9 per 100. Satisfaction guaranteed. M. G. Wells, Box 7, Sellersburg, Ind. 1-4

PURE BRED WHITE Wyandotte cockerels; selected standard qualifications from bred-to-lay, trap-nested stock. Three dollars up. Yearling breeding hens \$2. Guaranteed. C. H. Comstock, Morgan Park, Ill. 1-3

COCKERELS OF QUALITY; mature, vigorous, healthy; \$2 to \$5. Meadow Farm, Hartsdale, N. Y. 1

GRAND VIEW STOCK FARM has 75 White Wyandotte cockerels at \$2, \$3 and \$5. From prize mated pens, range raised, large, vigorous and yellow legs. H. M. Scholl, Bremen, Ohio. 1-3

WHITE WYANDOTTES, bred for show and eggs. Buffalo winners. Trap-nested for eight years. Day-old chicks. Eggs. Cockerels. Miss Marion I. Moore, Hamburg, N. Y. 11-1

HIGH CLASS WHITE Wyandottes, Martin strain. Choice yearling stock and hatching eggs for early delivery. Wm. Remmert, St. Peter, Ill. 12-2

WINNERS, RECORD 228. Catalog. W. W. Kulp, Box 70, Pottstown, Pa. 12-2

"WINNEBAGO" WHITE Wyandottes. Famous world's best Fishel strain. Fine big cockerels for sale. Will improve the egg production of your flock. Also eggs for hatching. Albert March, Jr., Oshkosh, Wis. 12-2

WHITE WYANDOTTES. English strain. Oak Grove Farm, R. 34, Box A, Peoria, Ill. 12-2

BLACK WYANDOTTES.

FINE BLACK WYANDOTTE cockerels, \$2.00; trios, \$5.00. Eggs in season. Satisfaction guaranteed. Mrs. Jack Wilson, Lewistown, Ill. 12-2

WYANDOTTES—SEVERAL VARIETIES.

MY ENTIRE STOCK of Golden and Silver Wyandottes at sacrifice prices. They win the blue at Cadillac and Battle Creek. Earl Gates, Mestek, Mich. 1

SEVERAL BREEDS.

PURE BRED CHICKENS. Partridge P. Rock cockerels; S. C. White Leghorns; S. C. Brown Leghorns, \$1.50 each. J. C. Stewart, Cernlean, R. 1 Box 62, Ky. 11-1

SUMATRAS, ORPINGTONS, White Rocks. James A. Daley, Licensed Poultry Judge, Mohawk, Mich. 11-15-1 yr

FOR SALE CHEAP. One pen S. C. Buff Leghorns, cost \$43.00; one pen S. C. Buff Orpingtons, cost \$50.00. Pullets from above stock laying and fit to show now. Mrs. Karl Spear, Conewango, N. Y. 12-2

BUFF LEGHORNS for 25 years; Columbian Rocks for 10 years; stock for sale. Show birds or breeding stock. Quality right. Satisfaction guaranteed. Write your wants. Quincy Dawson, Coshocton, Ohio. 11-1

BARGAINS IN TURKEYS, chickens, ducks, geese, guineas, ferrets. Won 306 prizes, Indiana and Illinois State Fairs, 1915. 500 birds for sale. Leading varieties. Leghorns a specialty. Charley Smiley, Judson, Indiana. 11-1

RED AND SPECKLED Sussex. Silver and Golden Campines, excellent young stock for sale at moderate prices. Box B. Pinehurst, Farm, Oberlin, Ohio. 11-1

AFRICAN AND TOULOUSE Geese, blue ribbon winners. White Cochins Bantams. J. H. Worley, Mercer, Pa. 11-1

BARGAINS. Halbach's Rocks, Young's Leghorns, Martin's Wyandottes, yearlings, hens, cockerels, cocks, pens, trios. Prices according to trap record and quantity. July hatched Leghorn pullets. The Emerson Egg Farm, Evanston, Ill. 11-1

FOR SALE. White Wyandottes, Buff, Black, White Orpingtons, White, Black Langshans, Anconas, Columbian Wyandottes, White Rocks, cockerels, pullets and hens. Prices \$1 to \$2 each. J. Wolf, Wheeler, Ill. 11-1

FOR SALE. Buff Orpington ducks, Buff and Brown Leghorns, Buff Rocks and Shetland ponies. Geo. H. Goyert, Batesville, Indiana. 12-2

FOR SALE. ANCONA cockerels, also one Guinea rooster. Chewink Plain Ancona Farm, No. Windham, Conn. 12-1

GOLDEN CAMPINE PULLETS laying at 4 months. White Faverolles at 5 months. "It's the Strain." Some exceptionally fine cockerels \$5 up. W. B. Moses, Garrettville, Ohio. 11-1

ALL VARIETIES LAND and water fowls. F. C. Wilbert, Grand Rapids, Mich. 1-2

FOR SALE 100 S. C. White Leghorn and White Wyandotte Cockerels. Winners at Aurora, Rockford, Belvidere and Batavia. Maple Lawn Poultry Yards, Hinckley, Ill. 1-16-tf

PREPAID \$1.25 PER 15 eggs. Circular free. Honest Deal Poultry, Eitzen, Minn. 1-3

THIRTY-ONE YEARS A BREEDER of Black Javas. 25 prizes won at three great world's fairs. San Francisco, 2-3 cockerels, 1 hen, 1-2-6 pullet. 26 years a breeder of Blue Andalusians, winners at largest shows in America. Stock for sale. Herbert Hodgson, Albion, Ill. 1

WHITE HOLLAND TURKEYS, bred from first prize young tom at Chicago, 1914. White African Guineas, \$1 each. White Orpington cockerels. Black Langshan cockerels. Mrs. Millard Coffin, Farmington, Iowa. Route 3. 1

WHITE FAVORELLES. Trios \$7.50. Buttercups, trios \$5. White Orpington cock, \$10. F. S. Johnson, Cartersville, Mo. 1-2

EMBDEN GEESE, MAMMOTH Pekin ducks, English Pencilled Indian Runner ducks. Mrs. Geo. W. Dunn, Aledo, Ill. 1-3

NINETY VARIETIES POULTRY, Pigeons, Hares, Dogs, Ferrets, etc. List free. 60 page colored book 10c. J. A. Bergey, Telford, Pa. 1-2

COCKERELS FROM BLUE RIBBON winners and record layers, \$1.50 to \$5 each. White Leghorns, White Orpingtons, Rhode Island Reds. All Single Comb. They are beauties. Beckner's Poultry Yards, Onnaland, Pa. 11-1

BUFF LEGHORNS. Buff Cochins, Bantams and Belgian Hares. Write for pamphlet. Mrs. L. S. Wiegel, Wierton, Hancock county, W. Va. 1-6

CLASSY WHITE ORPINGTON cockerels for sale, Aldrich strain, \$2 to \$5. Buff ducks. Cat. free. Morgan Bros., DeLand, Ill. 1-3

BUTTERCUPS EXHIBITION cocks, hens, cockerels, pullets for sale reasonable. One trio Buff Minorcas. Eggs in season. John L. Thomas, 64 Mill St., Binghamton, N. Y. 1

S. C. W. LEGHORNS and **S. C. Reds**, utility strain. Pullets \$1.00 and \$1.50; cockerels \$2.00 and \$3.00. Eggs 75c per 13; \$4.50 per 100. Baby chicks 15c each. Stanley Cook, Groveland, Mass. 1

WYANDOTTES, HAMBURGS, Polish, Leghorns, Games, Langshans, Spanish, Rocks. S. Jones, Church Creek, Maryland. 1

PREPAID EGGS and chicks for testing. Best varieties. Nominal cost. "Poultry Secrets Revealed," 100 pages, free. C. Townsend, Weedsport, N. Y. 1

BABY CHICKS.

BABY CHICKS from my Young's strain Single Comb White Leghorns, bred for size, vigor and heavy egg production. Satisfaction guaranteed. Large orders filled. Catalog free. Holland Hatchery, W. Van Apple-dorn, Holland, Mich. 12-2

S. C. WHITE LEGHORN Baby Chicks. You positively cannot afford to place your order for baby chicks before writing for our illustrated book on the new up-to-date way. We raise them for you for the first twenty days at our expense. We tell how you can clear over \$11 per day on 500 of our pullets by next November. Positive proof. No fancy figures. It will pay you to investigate. Twelve years in perfecting one strain. Write now. Kerlin's Grand View Poultry Farm, Center Hall, Pa. 1-3

CHICKS AND EGGS. Express prepaid. Cheapest hatchery. Highest recommendations. Ten varieties. Hundreds best quality. Classy dollar pullets. Order now. Cedar Hill Farm, Saugerties, N. Y. 1

FIFTY THOUSAND STRONG CANDEE hatched S. C. White Leghorn chicks for sale from our Barron and Young strains. We are importers and breeders of English Leghorns. Mating list free. Devries' Leghorn Farm, Zeeland, Mich., Box 202. 1-3

THE CRESCENT POULTRY FARM, Orvington, Ala., has a special price on baby chicks and six weeks old chicks (Barred Plymouth Rocks only), if your order is placed in January or February, for later shipment. Send for special folder at once. We guarantee to satisfy or refund your money. 1

PEDIGREED LEGHORN COCKERELS, \$4. Booking orders for eggs and chicks. April delivery. Leghorns \$11 per 100. Barred Rocks and R. C. Reds \$15. White Wyandotte hatching eggs. Free booklet. E. R. Hummer & Co., R. D., Frenchtown, N. J. 1-3

BABY CHICKS AND EGGS from high scoring birds, heavy egg production. Laken-velders Black Minorcas, White Leghorns, Anconas, White Rocks, Barred Rocks. Safe arrival guaranteed. Catalog free. John Geiger, Chatfield, Ohio. 1-3

CHICKS FROM SOME of the finest stock in the country. White and Brown Leghorns. Barred Rocks and Anconas. Prices right and safe arrival guaranteed. Catalog free. Wyngarden Hatchery, Zeeland, Mich. 1-3

SINGLE COMB WHITE LEGHORN baby chick specialists. Coal heated incubators. Trap-nested parent stock. \$12 hundred prepaid. Book orders now; no deposit required. Ohio Valley Hatchery, Ramsey, Ind. 1

BABY CHICKS, S. C. W. Leghorn Wyck-off strain, \$10 per 100. Strong and well hatched. Mature breeders. Eggs \$4 per 100. Satisfaction guaranteed. Clint Hesser, Winchester, Ind. 1-3

BABY CHICKS, S. C. W. and S. C. B. Leghorns, Barred Plymouth Rocks, Rose and Single Comb Reds. All from pure bred free range stock, at let-live prices. Colony brood-ers. Catalog free. The Houck Hatchery & Breeding Co., Desk 2, Tiffin, Ohio. 1-3

EGGS.

I BUY FRESH country eggs. Pay cash. State your price in first letter. Wessels, 2499 Webster Ave., New York City. 10-15-lyr

WANTED TO BUY—White eggs, must be very clean. If fancy poultry farm product, communicate with the Tebbetts & Garland Store, 16-18 N. Michigan Ave., Chicago. 1-13

DUCKS.

COLORED MUSCOVY DUCKS fine large early hatched bred from prize winners. C. L. Davis, Akron, Ind. 11-1

FANCY WHITE INDIAN Runner Ducks for sale at bargain prices. Bred from Chicago winners. Geo. A. Rigler, Bentons-port, Iowa. 11-1

PEKIN DUCKS, Rankin stock, for sale. Egg orders booked for early delivery in settings of hundred and thousand lots. August W. Schroeder, St. Peter, Ill. 11

DUCKS, IMPERIAL PEKINS, Indian Runners, Muscovys, Rouens, Buff Orpingtons, Geese, Mammoth Toulouse, White Embden, Buffs, Gray African, White China, Turkeys, Mammoth Bronze, White Holland, Bourbon Reds. Prices low. Large catalog 4 cents. Alf. A. Zeimer, Austin, Minn. 11-1

DUCKS ALL VARIETIES cheap. Bare Poultry Co., Hampton, Iowa. 11-1

FAWN AND WHITE; also pure White Runner ducks for sale. August W. Schroeder, St. Peter, Ill. 11

WHITE RUNNER DUCKS. Good young stock. Satisfaction guaranteed. C. & N. Cleaves, Box C, Timewell, Ill. 12-2

MAMMOTH PEKIN, Muscovy, Runner, Buff and Swedish ducks. Toulouse geese. Ed. Sweet, Jr., Darien, Wisconsin. 12-2

WHITE INDIAN RUNNERS. Heavy white egg strain. Single birds, \$2.00; pens, five birds, \$8.00. Fred C. Hacke, Gibson, Ia. 12-2

BEAUTIFUL MAMMOTH Mallard ducks. Blue ribbon stock. \$1.50 each. Mrs. Grace McClannahan, Green Tree Ranch, Fort Morgan, Col. 1-2

WHITE AND COLORED Muscovy ducks. \$1.25 each. Nice large birds. John Hass, Bettendorf, Iowa. 1-3

ROUEN DUCKS, 10 and 11-lb. strain, Chicago Great Mid-West Show, two entries, first prize cock, first prize pullet. I can please you size, quality, price. Harvey Young, Osco, Ill. 1-3

PURE WHITE HOLLANDS for sale. Satisfaction guaranteed. Bert Funkhouser, Ridgeville Corners, O. 1

GEESSE.

GEESSE ALL VARIETIES cheap. Bare Poultry Co., Hampton, Iowa. 11-1

MAMMOTH BUFF GEESE are largest. Stock bargain sale. Catalog. Welday, Seville, Ohio. 12-2

EMBDEN GEESE, \$7.00 pair. Honey Creek Poultry Farm, Kahoka, Mo. 12-1

TOULOUSE GEESE. Choice stock for sale cheap. Springbranch Poultry Farm, Bellville, Ohio. 12-2

GEESSE, THOROBRED Toulouse, \$3.50. Awarded highest premium. Frank D. Mayes, Albion, Ill. 12-2

LARGE TOULOUSE GEESE. Mated unrelated. Circular free. P. Pfouts, Bucyrus, Ohio. 12-2

PRIZE WINNING STRAIN Embden and White China geese. Oak Grove Farm, R. 34, Box A, Peoria, Ill. 12-2

TOULOUSE, THE NICE, big, showy kind that everybody wants. Money makers. Otto Motry, Kansas, Ohio. 1-3

EMBDEN GEESE. Large bone, Standard bred stock for sale. Robert McCarty, Winchester, Ill. 1-3

TOULOUSE GEESE of the highest quality. Winners wherever shown. At San Francisco they won three 1st and one 2d on 4 entries. Send to Lick Run Poultry Farm if you want quality. Address Edw. Davidson, Carey, Ohio. 1-3

AFRICAN AND TOULOUSE eggs. Goslings and geese from New York winners. Circular. Roy Pardee, Islip, N. Y. 1-3

AFRICAN GEESE for sale. Fine big fellows, both sexes, from \$3 to \$5 each. Satisfaction guaranteed. L. P. Selle, Wenona, Ill. 1-2

EMBDEN GEESE, \$3 each. White Muscovy ducks \$2 each. Sparling Sisters, Garden Grove, Iowa. 1-3

TURKEYS.

AMERICA'S BEST Breeding Giant Bronze Turkeys. See our advertisement on page 69. 2-15-tf

CHAMPION BRONZE TURKEYS from choice trio of Ike Hudnall's strain, direct; also Mammoth Bronze; \$5 to \$15. C. B. Hargesheimer, North Vernon, Ind. 11-1

BOURBON RED TURKEYS. Large, heavy boned. Extra fine, strong birds. Adams Brothers, Buffalo, West Virginia. 12-1

BOURBON REDS of choice quality ready for delivery. Show winners. G. W. Wilson, Trimble, Illinois. 12-2

MAMMOTH BRONZE TURKEYS. Prize winners, large size, finely marked, strong, vigorous birds. Prices low, quality high. Satisfaction guaranteed. Circular free. B. F. Morgan, Independence, Ind. 12-2

BOURBON RED TURKEYS. Thorobred. Heavy bone and fine color. Hens, \$3.50 each, and toms \$5.00 each. Also toms coming two years, choice ones. Miss E. E. Adams, Buffalo, West Virginia. 12-2

MAMMOTH BRONZE, grand sire first prize tom of Chicago, weight 50 lbs. Young and old stock for sale. Pullets, \$4.00 up; toms, \$6.00 to \$10.00. Eli Rosenberger, R. 9, Box 26, Tiffin, Ohio. 12-3

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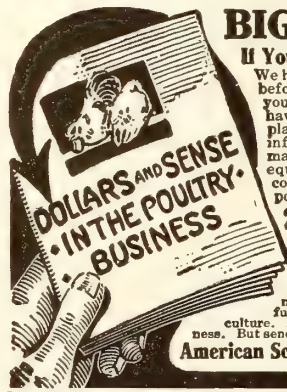
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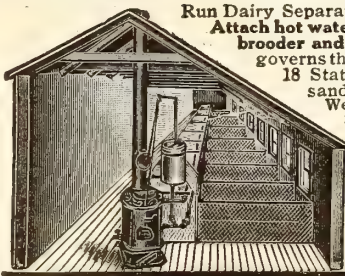
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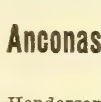
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NOVEMBER 18TH TO 25TH, 1915

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also fifteen birds in the hands of my customers were in the ribbons.

Large, snappy, vigorous Trap-nested Exhibition or Breeding stock for sale, that will improve any flock or win any show in America. I sell eggs that will hatch regardless of distance of shipment. Send for Sales and Mating lists of the strain that delivers the goods. **BREEDING FOR EGGS MY HOBBY.**

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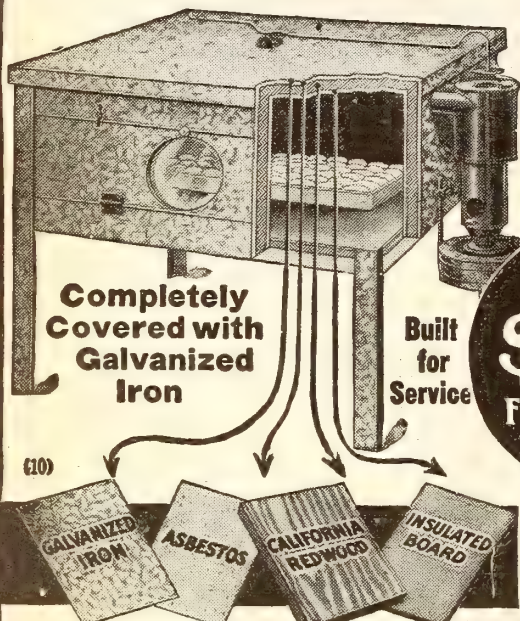
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FIRST WINNERS

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At Madison Square Garden: 4 Firsts, 4 Seconds, 3 Third Prizes, besides other awards have been won by us at a single Madison Square Garden Show. Three times have Males of our breeding won 4 of the Five prizes offered in the class including firsts.

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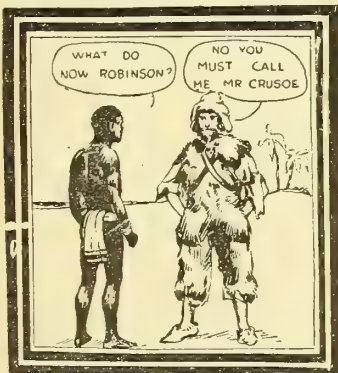
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HOW TO PLAY THE GAME

A good title for this picture is "Robinson Crusoe" because there are two men and one is saying, "What do now, Robinson?" and the other is saying, "No, you must call me Mr. Crusoe." So it is very plain that a suitable title is "Robinson Crusoe."



This simple picture introduces you to the Piktur-Qwz-Game. There are sixty pictures. The best answers (most appropriate titles) will receive the decision of an impartial committee of judges. The game is very easy. In the event of ties each tying contestant will get full reward tied for. Full information will come to you with the complete Piktur-Qwz-Game Outfit, and you can start at once to playing for your share of \$10,000 cash.

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Piktur-Qwz-Game consists of a few easy pictures for which you are to supply titles of books. However, you do not need to know one single book title, as all the titles you can use are to be found in the Official Catalog. You simply get the pictures, the Catalog and Reply Book. Then go over the pictures carefully and think up what titles best fit them. Then look through the catalog for the titles and enter the titles you have picked out in the Reply Book. Game is interesting and easy and open to all.

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Madison Sq. Garden
New York, February, 1915



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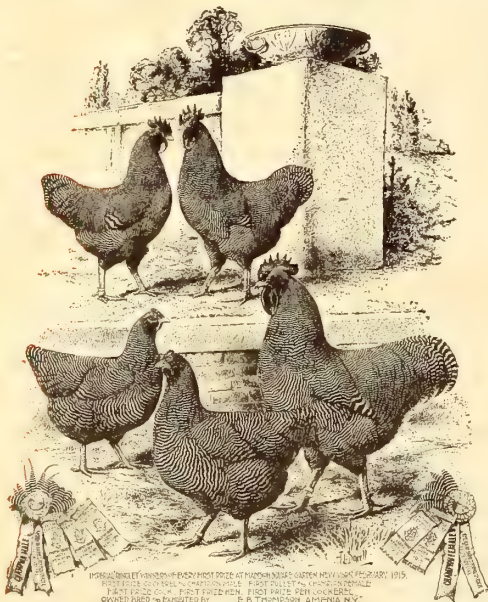
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AMERICAN POULTRY JOURNAL

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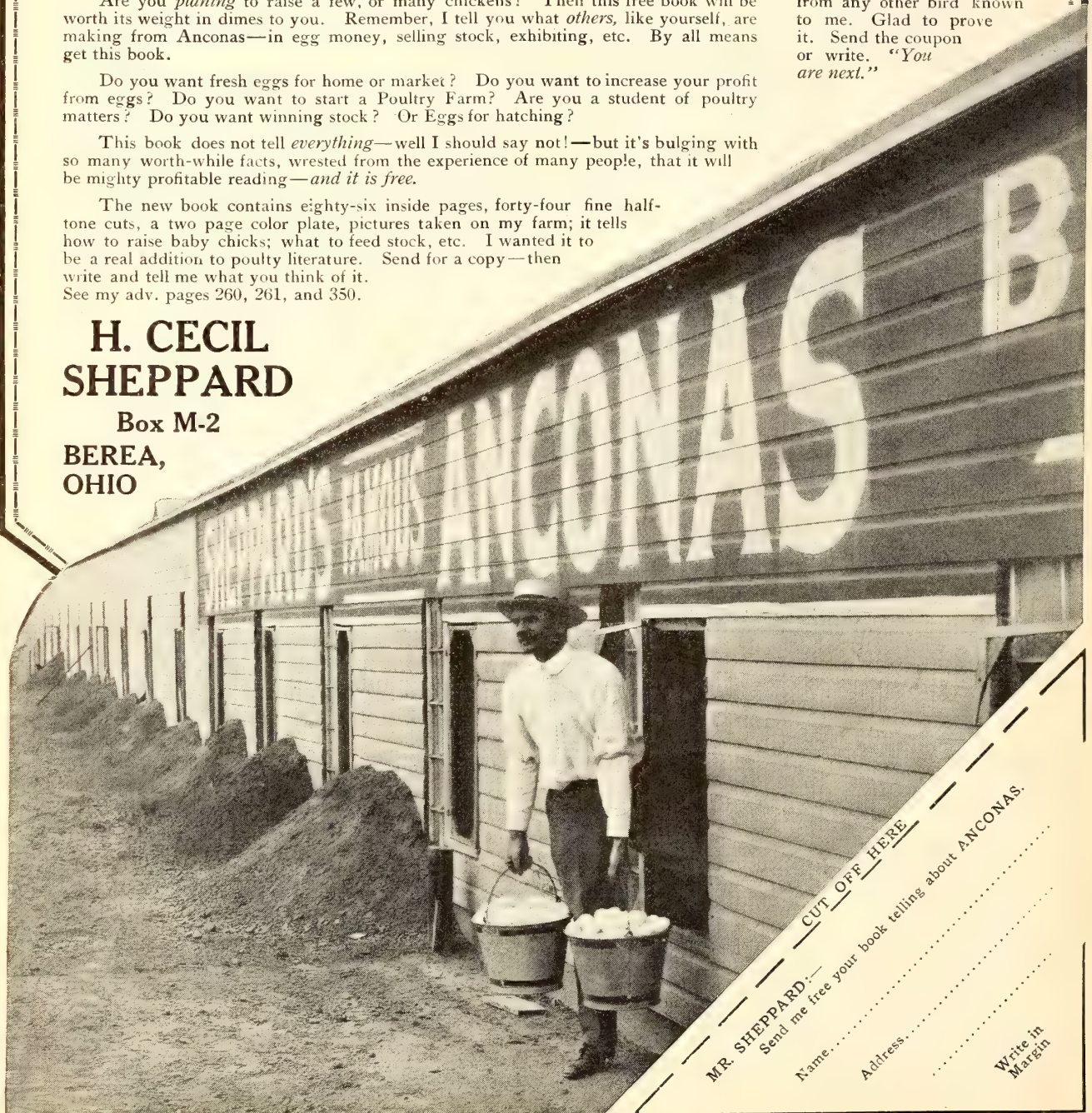
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SHEPPARD**

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Well, I didn't mean to take you by surprise—popping out of a window that way—but here I am! No, this isn't all we get in one day. No, I don't often gather the eggs—but my photographer insisted that I "pose" for this. By the way, this is one of the 44 pictures in my new book. EGGS? Yes, you can get them at a lower cost from ANCONAS than from any other bird known to me. Glad to prove it. Send the coupon or write. "You are next."



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Hip! Hip!! Hooray!!!**

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} 1915

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In that Deep, Narrow, Regular Barring down to the Skin,

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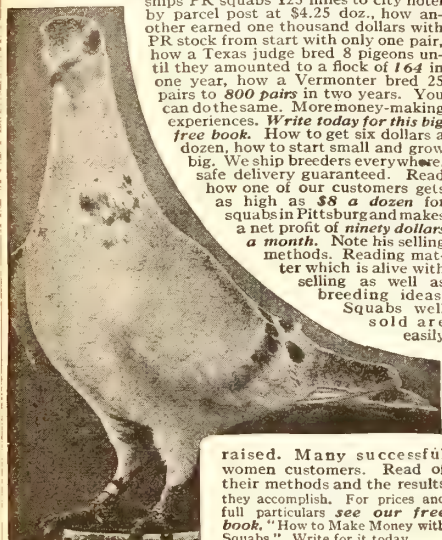
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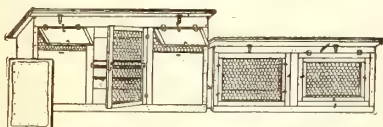
for 1916, telling how a Mich. hired man now works for himself breeding PR squabs and selling for \$5 doz., how an Ind. man sold 4652 PR squabs for \$1265 in 1915 and cured himself of desire to leave the farm, how a S. C. man ships PR squabs 125 miles to city hotel by parcel post at \$4.25 doz., how another earned one thousand dollars with PR stock from start with only one pair, how a Texas judge bred 8 pigeons until they amounted to a flock of 164 in one year, how a Vermonter bred 25 pairs to 800 pairs in two years. You can do the same. More money-making experiences. **Write today for this big free book.** How to get six dollars a dozen, how to start small and grow big. We ship breeders everywhere, safe delivery guaranteed. Read how one of our customers gets as high as \$8 a dozen for squabs in Pittsburg and makes a net profit of **ninety dollars a month.** Note his selling methods. Reading matter which is alive with selling as well as breeding ideas. Squabs well sold are easily



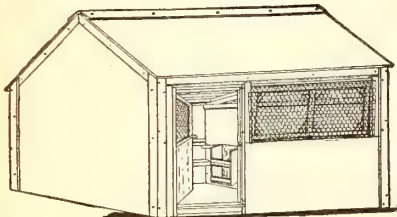
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10x10 Portable

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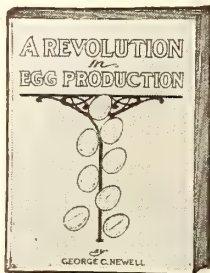
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TABLE OF CONTENTS

VICTOR BRADLEY—PIONEER POULTRYMAN.....	231
USING COAL BURNING COLONY BROODERS.....	Maurice H. Decker 232
REARING CHICKENS WITH HEN OR BROODER.....	Prince T. Woods, M. D. 234
BARRED PLYMOUTH ROCKS AND THEIR BREEDING.....	C. H. Latham 239
COMMENT ON REPORTS OF AMERICAN POULTRY ASSOCIATION CONVENTION.....	Helen T. Woods 241
A WELL-CONDUCTED SPECIALTY FARM.....	Prince T. Woods, M. D. 244
FANCIER — BREEDER — UTILITYMAN.....	Prince T. Woods, M. D. 248
EDITORIAL.....	250
Censors and Censoring—Not a "Season Business"—Poultry Values—How It Looks Over Seas— One Successful Boy—Inspectors and Investigation—Rose Comb White Leghorn Next—More About Day-Old Chicks.	
DR. WOODS' NOTES AND COMMENT.....	257
HORTICULTURE FOR POULTRY KEEPERS.....	Thomas F. Rigg 268
MADISON SQUARE GARDEN SHOW.....	Prince T. Woods, M. D. 271
GREATER CHICAGO SHOW.....	F. D. Rogers 296
ILLINOIS STATE SHOW.....	F. D. Rogers 1A
OUR COVER.....	7A
THE POULTRY EXHIBITION OF PITTSBURGH.....	P. K. White 316
MASON CITY, IOWA, AWARDS.....	313
NOTES OF THE GREATER CHICAGO SHOW.....	Earl Whitney 314
TO OUR READERS.....	P. K. White 315
OSHKOSH, WIS., AWARDS.....	318
THE GREAT BOSTON SHOW.....	Prince T. Woods, M. D. 319
MARKETING EGGS BY PARCEL POST.....	L. A. Richardson 342
MONTHLY PRIZE CONTEST DEPARTMENT.....	343
WOMAN'S SUCCESS WITH POULTRY.....	Helen T. Woods 348
QUESTIONS AND ANSWERS.....	Prince T. Woods, M. D. 352
HOME AND THE TABLE.....	Helen T. Woods 358
RECENT INVENTIONS FOR POULTRYMEN.....	Lester L. Sargent 360
PHILADELPHIA'S TENTH ANNUAL SHOW.....	Earl Whitney 363
THE CLEVELAND SHOW.....	Sheppard Strong 366
WINNINGS OF AMERICAN POULTRY JOURNAL ADVERTISERS.....	373

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Kennedy, J. Fred N., Birch Cliff, Can. 367
 Kern, J. C., Kansas City, Mo. 361
 Keyes-Davis Co., Battle Creek, Mich. 339
 Keystone Hatchery, Richfield, Pa. 366
 King, Dr. A. C., Chicago, Ill. 372
 Kittelman Bros., Muncie, Ind. 218
 Klein, J. W., Kiel, Wis. 291
 Klein-Lambert Co., Chicago, Ill. 338
 Knight Light Co., Chicago, Ill. 338
 Knollenberg Milling Co., Quincy, Ill. 372
 Kulp, W. W., Pottstown, Pa. 342

Lakewood Farms, Holland, Mich. 368
 Larkin & Herzberg, Mankato, Minn. 305
 Latham, C. H., Lancaster, Mass. 258
 Laywell Poultry Farm, Lyndonville, Vt. 291
 Lee Co., Geo. H., Omaha, Neb. 332-354-7A
 Lee, Leo A., Chicago, Ill. 334
 Leitner, C. H., Elgin, Ill. 327
 Liberty Stove Co., Philadelphia, Pa. 264
 Lily White Poul. Farm, Saginaw, Mich. 262
 Lingeman, C., St. Louis, Mo. 313
 Lock, C. W., De Kalb, Ill. 337
 Lo-Go Electric Inc. Co., New York City 338
 Longfield Poultry Farm, Bluffton, Ind. 307

MacKay Colony Brooder Co., N. Y. 333-363
 McCammon & Myers, Gettsburg, Pa. 3A
 McCave, Chas., New London, Ohio 294
 McConnell, J. V., Garden Grove, Cal. 314
 McConnell, W. A., Richmond, Ill. 361
 McCrum, W. O., Decatur, Ill. 280
 McDaniel & Cessna, Kansas, Ohio 366
 McGrann, Frank, Lancaster, Pa. 210
 McKean, Shaw, Prides Crossing, Mass. 3A
 McLean, S. G., S. Glastonbury, Conn. 328
 Magic Egg Tester Works, Buffalo, N. Y. 305
 Mahon, Elton C., Norwood, Tenn. 327
 Majestic Squab Co., Adel, Iowa 3A
 Maloney Bros. & Wells Co., N. Y. 270
 Mankato Incubator Co., Mankato, Minn. 313
 Mann Co., F. W., Milford, Mass. 340
 Marshall & Marshall, Niagara Falls, Can. 339
 Martin, John S., Port Dover, Ont., Can. 254
 Martin, M. F., Chicago, Ill. 367
 Martling Hennyery, Ridgefield, N. J. 212
 Martz & Son, A. E., Arcadia, Ind. 252
 Mazelin, Joseph, Berne, Ind. 367
 Mead Cycle Co., Chicago, Ill. 312
 Meadow Lark Farm, Elgin, Ill. 304
 Meadow Lawn Poultry Yards, Mich. 330
 Meloney Co., J. W., New York City, N. Y. 323
 Merkley Mfg. Co., Syracuse, N. Y. 3A
 Merrill, Arthur, Solon Mills, Ill. 327
 Metzger Mfg. Co., Quincy, Ill. 367
 Minch, Philip J., Cleveland, Ohio 290
 Mirimichi Poul. Farms, Foxboro, Mass. 304
 Mo. Poultry & Squab Co., Kirkwood, Mo. 288
 Mittendorf, O. F., Lincoln, Ill. 288
 Model Incubator Co., Buffalo, N. Y. 3A
 Moeller, A. E., Brooklyn, N. Y. 303
 Moeller, Carl W., Quincy, Ill. 316
 Mokena Poultry Farm, Mokena, Ill. 367
 Monmouth Farms, Frenau, N. J. 3A
 Moore, R. H., Nellie, Ohio 364
 Morris Farm, Bridgeport, Conn. 366
 Morris Poultry Farm, Lebanon, Ohio 342
 Mount Air Farm, Powell, Ohio 306
 Mountville Farm, Mountville, Va. 339
 Munger, Lea M., De Kalb, Ill. 328
 Myers, C. Guy, Siddonsburg, Pa. 288
 Myers, C. N., Hanover, Pa. 253
 Myers, Frank, Freeport, Ill. 7A

National Incubator Co., Racine, Wis. 369
 National Poul. Institute, Topeka, Kas. 367

Nat. White Wyandotte Club, Penn. 7A
 Natural Hen Inc. Co., Los Angeles, Cal. 347
 Nelson, Walter P., Bayonne, N. J. 7A
 Neubert, F. A., Mankato, Minn. 358
 Neubert, R. F., Mankato, Minn. 365
 Neubert Inc. Factory, Mankato, Minn. 376
 Neusitz Co., W. A., St. Louis, Mo. 6A
 Newell & Gordinier, Troy, N. Y. 327
 Newtown Giant Inc. Corp., Virginia 266
 New Washington Hatchery, Ohio 3A
 Niemann Bros. Mfg. Co., Mt. Olive, Ill. 311
 Nixon, Chas., Washington, N. J. 330
 Norman Farms & Hatchery, Illinois 314
 North Eastern Mfg. Co., Keeseville, N. Y. 318
 Norwich Auto Feeder Co., Conn. 311
 Novak Poultry Farm, Racine, Wis. 314
 Nye, C. C., Harristown, Ill. 2A

Oakes Mfg. Co., Tipton, Ind. 291
 Obermeier, C. F., Louisville, Ky. 291
 Ohio Marble Co., Piqua, Ohio 317
 O. K. Co., New York City, N. Y. 341
 Old Forge Poul. Farm, Spring Grove, Pa. 267
 Olle, P. J., Racine, Wis. 331
 Orchard Farm, Noroton Heights, Conn. 267
 Orr, D. Lincoln, Orr's Mills, N. Y. 334
 Ossege Hatchery, J. W., Glandorf, Ohio 330
 Otis & Moe Mfg. Co., Chicago, Ill. 349
 Owen Farms, Vineyard Haven, Mass. 356-357

Pagel, Fred, Rockford, Ill. 367
 Palmer & Son, D. E., Yorkville, Ill. 334
 Pape, G. Chas., Ft. Wayne, Ind. 264
 Parke, Davis & Co., Detroit, Mich. 372
 Parks, J. R., Altoona, Pa. 327
 Parks, J. W., Altoona, Pa. 360
 Pasteur Lab. of America, New York 7A
 Payne Bros., Portland, Conn. 328
 Pennington, J. S., Plainfield, Ill. 290
 Pennsylvania Poul. Farm, Lancaster, Pa. 310
 Perfection Port. Poul. House Co., Chicago 331
 Perfecto, Lynbrook, N. Y. 303
 Perry, Louis H., Clay, N. Y. 339
 Pfle, Henry, Freeport, Ill. 7A
 Pilling & Son Co., Philadelphia, Pa. 314
 Pinehurst Farm, Oberlin, Ohio 367
 Pine Lake Poultry Farm, Hartland, Wis. 284
 Pittsfield Poul. Farms Co., Mass. 309
 Platt, F. L., Swanton, Ohio 252
 Plymouth Rock Squab Co., Melrose, Mass. 208
 Pomona Nurseries, Dansville, N. Y. 270
 Poorman, John G., Tinley Park, Ill. 230
 Pope & Pope, Louisville, Ky. 294
 Porter, A. B., La Salle, Ill. 335
 Port Huron Fish Co., Port Huron, Mich. 291
 Potter & Co., Downers Grove, Ill. 329
 Pottinger, Joseph, Peru, Ill. 367
 Powers, J. H., Chicago, Ill. 316
 Prairie State Inc. Co., Homer City, Pa. 318
 Pratt Food Co., Philadelphia, Pa. 351
 Progressive Inc. Co., Racine, Wis. 343
 Prudhomme, Dr. J. H., Thurmont, Md. 262
 Putnam, L., Elmira, N. Y. 347-357-376

Queen Incubator Co., Lincoln, Neb. 368
 Quincy Poultry Farm, Quincy, Ill. 308

Rancho Del Martino, Downey, Cal. 352
 Rancocas Poul. Farms, Browns Mills, N. J. 263
 Rawnsley-Shields Poul. Farm, Ohio 267
 Read, W. E., Maywood, Ill. 308
 Read Poultry Farm, Watervliet, N. Y. 339-303
 Red Feather Farm, Tiverton 4 Cor., R. I. 340
 Reed, Mrs. Hattie D., Marcellus, N. Y. 294
 Reefer, E. J., Kansas City, Mo. 362
 Reliable Inc. & Brooder Co., Quincy, Ill. 219
 Reliance Incubator Co., Freeport, Ill. 347

Rikhoff, H. F., Indianapolis, Ind. 242
 Riley, Hy. D., Stafford, Pa. 308
 Riley, H. J., Bryan, Ohio 290
 Rippley Mfg. Co., Grafton, Ill. 373
 Roberts, Wm., Granville, Mich. 335
 Robinson & Bro., C. N., Md. 3A-270
 Rochester Spray Pump Co., N. Y. 372
 Rockford Poultry Sup. Co., Rockford, Ill. 317
 Rock Ledge Farm, Southboro, Mass. 366
 Rockwood Farm, Norwalk, Ohio 303
 Rogers, F. D., Chicago, Ill. 6A
 Rosedale Egg Farm, Mich. Inside bk. cover
 Rosemont Farms, Pa. Inside bk. cover
 Rudy, Geo. H., Mattoon, Ill. 306
 Ruf, Fred A., Crown Point, Ind. 370

Sanborn, Dr. N. W., Holden, Mass. 3A
 Sanford, Geo. P., Wheaton, Ill. 314
 Sargent, Lester L., Washington, D. C. 372
 Saunders & Williams, Ingersoll, Can. 288
 Savage, P. L., St. Charles, Ill. 313
 Schabell, John, Chicago, Ill. 370
 Schenley Heights Poul. Farm, Pittsburgh 388
 Scherrubie, H., Elgin, Ill. 337
 Schlosser & Son, A. H., Davenport, Ia. 335
 Schultz, W. F., Cuyahoga Falls, Ohio 316
 Schwalge-Smith Co., Elmhurst, Ill. 213
 Scranton, B. H., Rising Sun, Ind. 350
 Sefton Mfg. Co., Chicago, Ill. 266
 Seward, R. M., Lewistown, Ill. 3A
 Sharp, Herb E., Spokane, Wash. 233
 Sheer Co., H. M., Quincy, Ill. 371
 Sheffield Farm, Glendale, Ohio 371
 Sheppard, H. Cecil, Berea, O. 260-261-350-206
 Sherman, C. A., Freeport, Ill. 371
 Shinn, Warren, Woodbury, N. J. 270
 Shoemaker, C. C., Freeport, Ill. 226
 Shoenhard, G. H., Freeport, Ill. 330
 Shumway, R. H., Rockford, Ill. 270
 Silliman, John, Ironton, Ohio 376
 Simmonds, Chas. A., Camp Point, Ill. 317
 Simplex Supply House, Chicago, Ill. 212
 Singleton, Geo. H., Lakewood, Ohio 366
 Sixt, C. W., West Park, Ohio 361
 Skinner, F. E., Sandwich, Ill. 305
 Slingerland's Cor. School of Music, Ill. 1A
 Smith, Eugene C., Aurora, Ill. 253
 Smith, F. S., Hamilton, Ohio 309
 Smith, H. A., Chicago, Ill. 376
 Somers, J. O., Bedford, Ohio 208
 Spahr, Albert G., Xenia, Ohio 318
 Spiller, A. P., Beverly, Mass. 305
 Sprague, P. H., Maywood, Ill. 337
 Spring Water Poul. Farm, Stockton, N. J. 264
 Staatsburg Mfg. Co., N. Y. 361
 Standard Poultry Co., Napanee, Ind. 327
 Standard Rock Farm, Mendota, Ill. 308
 Starck Piano Co., P. A., Chicago, Ill. 372-312
 Starks, M. L., Starks, Wis. 3A
 Stearns & Co., E. C., Syracuse, N. Y. 316
 Steinmesch, Hy., St. Louis, Mo. 303
 Stenz & Son, Joseph, Fond du Lac, Wis. 334
 Sterling Poultry Co., Sterling, Ill. 311
 Sterling Poultry Farm, Sterling, Ill. 335
 Steward, Chas. A., Plano, Ill. 306
 Stiarwalt, John, Decatur, Ill. 353
 Stiles, Chas. L., Columbus, O. 342-371-3A
 Stratton Mfg. Co., Erie, Pa. 376
 Struble Buff Orp. Farm, Bascom, Ohio 337
 Sturman, Grant, Mt. Carmel, Ill. 264
 Succulenta Co., Newark, N. J. 318
 Sunlight Poul. Farm, Lynchburg, O. 311
 Sunnyside Poultry Farm, Bristol, Vt. 364
 Sunswick Poul. Farm, S. Plainfield, N. J. 2A

Tarbox, A. & E., Yorkville, Ill. 5A

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Taylor, Geo., Urbana, Ill.1A
 Taylor Instrument Co., Rochester, N. Y.362
 Tenacre Poltry Farm, Princeton, N. J.335
 Thompson, E. B., N. Y.282-283-back cover
 Thornwood Poul. Yards, Crandall Ind.353
 Thornycroft Buff Leghorn Farm, Pa.7A
 Tiffin Poul. Farms & Hatchery, Ohio.364
 Timberlake & Sons, J. B., Jackson, Mich.8A
 Tompkins, Harold, Concord, Mass.4A
 Treman, King & Co., Ithaca, N. Y.284
 Tremper, S. N., Sandwich, Ill.328
 Trethaway, Arthur, Wilkes-Barre, Pa.305
 Tucker, Chas., Sycamore, Ill.328
 Tyler, S. A., De Kalb, Ill.308
 Tywacana Farms Poul. Co., N. Y.288

Uhl & Co., M., New Washington, Ohio.5A
 Union Stock Yds. Poultry Farm, Chicago.376
 United Brooder Co., Trenton, N. J.353
 Universal Heat Check, Buffalo, N. Y.367
 Urban Farms, Buffalo, N. Y.294

Walker, G. A., Polo, Ill.331

Ward, John W., Pennington, N. J.364
 Ward, R. W., Normal, Ill.290
 Ward, W. H., Nickerson, Kansas.337
 Warner, The Coopman, Allegan, Mich.367
 Warsaw Incubator Co., Warsaw, Ill.337
 Watson Mfg. Co., Lancaster, Pa.353
 Watts, Mrs. Tella E., W. Concord, Minn.367
 Waugh, M. H., Peoria, Ill.288
 Weber, W. A., Mankato, Minn.339
 Wellcome, F. O., Yarmouth, Maine.4A
 Wendell Incubator Co., Holly, Mich.373
 West, Elmer C., Ewing, Ky.370
 Western Electric Co., Chicago, Ill.305
 Wetmore, C. S., Lackawanna, N. Y.348
 Wheeler, Albert V., Carlville, Ill.316
 White, D. J., Wilkesburg, Pa.334
 White City Egg Farm, Seville, Ohio.291
 White Ranch, South Haven, Mich.315
 White Wyandotte Poul. Yards, Mass.353
 Wilburtha Poul. Farms, Trenton, N. J.333
 Williams, A. C., Ravenna, Ohio.258
 Williams, E. H., Berea, Ohio.8A

Willow Tree Poultry Farm, Mass.329
 Wilson Bros., Easton, Pa.372
 Wing & Son, New York City, N. Y.265
 Wisconsin Incubator Co., Racine, Wis.346
 Wolf, Mrs. John, Merrifield, N. Dak.314
 Wolf-Huber Hatchery Co., Gibsonburg, O.294
 Wood, Chas. H., Worcester, Mass.316
 Woods, H. M., Carlville, Ill.367
 Woodward, C. L., Norwalk, Ohio.308
 Woodward, Ralph, Grafton, Mass.342
 Woolery Farm, Bloomington, Ind.290
 Wotherspoon, Jas. R., Philadelphia, Pa.330
 Wyckoff & Son, C. H., Aurora, N. Y.265

X-Ray Incubator Co., Des Moines, Ia.227

Yesterlaid Egg Farms Co., Pacific, Mo.267
 Young, D. W., Monroe, N. Y.259
 Young Co., E. C., Randolph, Mass.208

Zenner Disinfectant Co., Detroit, Mich.365

20th Century Hatchery, New Wash., O.263

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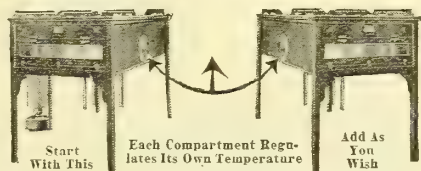
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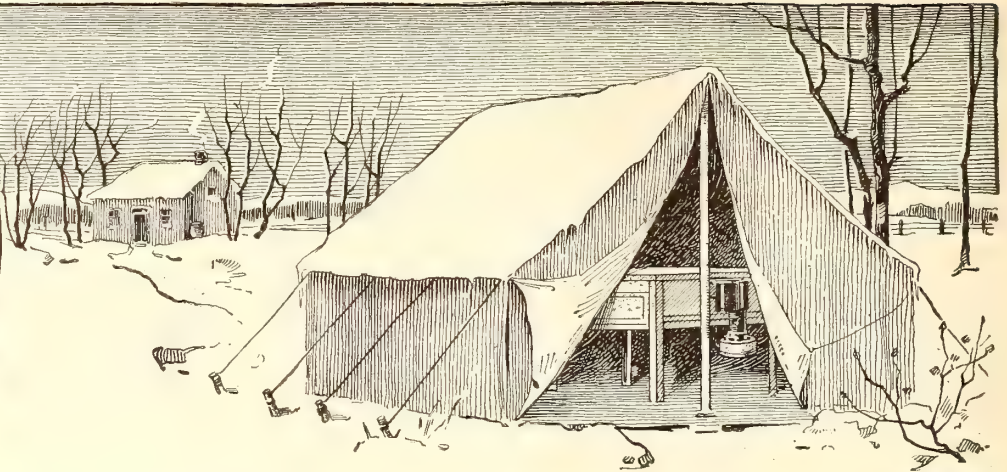
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He is the best Red male I ever handled, either comb. — Judge Fred Kummer.

Best Red cock bird I ever handled and I have judged a good many Reds. — Judge H. F. Rikhoff.

I do not know how you could improve on 1st Chicago S. C. Red cock shown by F. E. Harrison. Take the bird all in all, color and type considered, I have never seen a better one. — Judge W. C. Pierce.

If each and every cock bird shown at Chicago, December, 1915, in the S. C. R. I. Red class was dissected and the best section of each one was put together, the bird so made would not equal your 1st prize Coliseum cock bird. He is the best Red cock I ever saw. — Judge O. L. McCord.

The best Rhode Island Red I have ever seen. — Breeder Eugene Smith.

The best Rhode Island Red bird I ever saw, of either sex or comb. — Judge Len Rawnsley.

F. E. Harrison's 1st prize S. C. R. I. Red cock bird at the Chicago Coliseum, December, 1915, is probably the best Rhode Island Red cock bird ever shown. He is trim as a cockerel and has even surface and deep under color. He is the best I ever handled. — Judge Geo. W. Hackett.

I have never in all my experience as a breeder handled as good a Rhode Island Red male in either comb. — Famous Rose Comb Red Breeder, D. K. Williamson.

All of the great qualities combined in your 1st prize S. C. R. I. Red cock at Chicago; great color and beautiful type go to make a specimen seldom, if ever, seen. — Rhode Island Red Expert, Geo. Ainsworth.

F. E. Harrison shows a cock bird this year, even greater than his famous champion of last season. He being richer in color and more sound in every section, with type and finish that cause me to say he is best I have ever seen. — Judge F. W. Hallett.

The best male I ever handled. — Judge Clarence Hewes.

First S. C. R. I. Red cock bird at Coliseum; typical well finished; even, brilliant red; sound color and fine eyes and head. A most rare bird combining highest quality in every section. The kind we have long hoped to see. — Judge H. P. Schwab.

I consider F. E. Harrison's 1st Coliseum Chicago cock bird the best all around Red I have ever handled. — Judge J. C. Johnson.

1st Chicago Coliseum cock bird shown by F. E. Harrison is the best Red cock bird shown to date. — Famous Red Breeder, C. P. Scott.

1st S. C. R. I. Red cock bird shown by F. E. Harrison Chicago

Coliseum, 1915, is neat and well turned as a cockerel. Superb type and beautiful color. The best Red male I ever handled. — Judge Roundtree.

Your 1st Chicago Coliseum cock bird, 1915, even greater than your famous three times champion, the Giant Killer. He is the best S. C. Red cock I ever handled. — Judge Halbach.

The 1st prize S. C. R. I. Red cock bird shown by F. E. Harrison, Chicago Coliseum, December, 1915, is the best Rhode Island Red male (either comb) I ever handled. — Judge Geo. M. Wells.

Best all around Red I ever saw. — Judge G. E. Greenwood.

Best Rhode Island Red cock I ever saw. — Judge G. E. Greenwood.

Best Rhode Island Red cock I ever saw. — Judge Ralph Whitney.

From comb to tail and back to toes the 1st prize S. C. R. I. Red cock bird at the Chicago Coliseum is the best I ever handled. He is absolutely sound and clean thru-out and almost perfect wing. — Judge D. E. Hale.

I never handled a better colored Red and type as good as this bird. — Judge Carl Carter.

Best S. C. R. I. Red cock I ever handled in Chicago. — Artist and Judge, Louis Stahmer.

1st Chicago cock, 1915, is the best Rhode Island Red male the world has ever seen. — Judge Ralph Sturdevant.

I have many more and as strong endorsements of KING ROYAL as the above. **Get my King Royal Circular.** My winning twenty-one 1st prizes and best display for five consecutive times in four showings at the Coliseum and one showing at the January 1915, Greater Chicago Show, while my nearest competitor won but one 1st is conclusive evidence ROYAL REDS LEAD THE WORLD.

Best offer on eggs ever made. Circular FREE for the asking.

F. E. HARRISON - Box 492 - MENOMINEE, MICH.



1st Cock, The Coliseum, 1915.



1st Old Pen, The Coliseum, 1915.



1st Cockerel, Illinois State Fair, 1915

K I S M E T !

Two Sweepstakes Championships

At the December

COLISEUM SHOW, CHICAGO, ILL.

I TOLD YOU SO

But you may have taken my statement with a grain of a salt. Now, however, that I have won the lion's share of honors in the great contest between the quality breeders of the East, West, North and South in Single Comb.

WHITE LEGHORNS

no fair-minded man will question the right of my stock to be considered the equal of the best, both in exhibition and egg-laying qualities.

JUST CONSIDER THAT IN S. C. WHITE LEGHORNS

I won First and Third in Cocks I won First Young Pen
I won First and Fourth in Cockerels I won Second and Third Old Pen
I won the Coliseum Silver Cup for 5 Best Cockerels
I won the Coliseum Silver Cup for Best Display.

In Silver

CAMPINES

The Very Cream of the Best Fowls of the Country Were Exhibited.

THE CAMPINE CLUB OF AMERICA

held its annual meet at the Coliseum, and the leading breeders of the East—the head-liners in Campinedom—were present with their exhibits. The classes were the very strongest, everyone agrees, that have ever been exhibited and

THE GREATEST HONORS WERE MINE

I won TWO of the five awards in Cockerels I won THREE of the five awards in Young Pens
I won THREE of the five awards in Hens I won The Silver Campine Club Challenge Cup
I won THREE of the five awards in Pullets I won The Coliseum Cup for Best Display
I won THREE of the five awards in Old Pens I had 48 Campines entered; 38 were placed

Exhibition Stock I can furnish Leghorns and Campines for any show in the Country at very reasonable prices, and my guarantee to satisfy backs up every sale.

Utility Stock I have several hundred each of Silver Campine and S. C. White Leghorn breeding stock, males and females, at astonishingly low prices. Why not get the best, when they will cost you no more than inferior specimens? And, remember, I guarantee each sale.

Hatching Eggs November 1st I had 10 pens of each breed mated. December 1st I had 250 vigorous baby chicks. By January 1st I shall have 30 pens of each breed mated. I am now selling eggs from my all-star matings at very, very reasonable prices and I guarantee safe delivery and high fertility. Write today for my January, 1916 Announcement concerning show stock, utility stock and hatching eggs.

Write today for Stock and Egg Announcement.

FRANK E. HERING, Desk B, So. Bend, Ind.

Five Hens Fed on Red Comb

Show Year's Record of 1072 Eggs



Let Charles E. Reed tell his own story. This is his letter:

"Edwards & Loomis Co., Chicago, Ill.

"Gentlemen:—My five White Plymouth Rock hens in the International Egg laying Competition was the heaviest laying pen of White Plymouth Rocks ever recorded in a laying competition. Their total yearly record was 1072 eggs and they were ahead of all varieties of Plymouth Rocks. One hen laid 247, another 244 another 228 and one 192. For the coldest four weeks of the winter they won the special prize for greatest number of eggs laid. These hens and their parents were raised and conditioned on Red Comb Feed."—C. E. Reed.

Red Comb

"Red Comb Means Health"



s a scientifically balanced ration—with the minimum of grit. Percentage guaranteed on each bag. Or without grit if preferred. Ground of the choicest of whole grains. No matter the distance, the cost or the trouble, we see to it that every ingredient is the best earth can produce.

Mail coupon for Free Book, "FEEDING POULTRY FOR PROFIT." We will send name of your Red Comb dealer.

EDWARDS & LOOMIS CO.
344-M N. Elizabeth Street
CHICAGO, ILL.

Also Manufacturers of the
Famous Line of Red Horn
Dairy Feeds

Mail
This
Coupon

Edwards & Loomis Co.

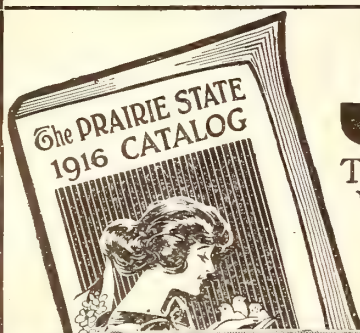
344-M N. Elizabeth St., Chicago, Ill.

Send me FREE copy of book "Feeding Poultry for Profit." Also name of Red Comb dealer near me.

Name _____

Address _____





Just Out-FREE

The new 1916 Prairie State Incubator Catalog is now ready. We want to send you a copy, FREE and postpaid. Just write your name on a postal and we will mail you one at once. Describes the famous

PRAIRIE STATE Incubators and Brooders

These splendid machines are used and endorsed by Poultry Experts the world over. For example: Prof. Jas. E. Rice, Dept. Poultry Husbandry, Cornell University, Ithaca, N. Y. writes:

"The fact that we recently purchased a number of Prairie State Incubators is perhaps the best evidence of the high opinion which we hold of your machines."

Mr. M. Kleppinger, Centre Valley, Pa., writes of Prairie State chicks: "From 1,000 chicks the loss was only 7 per cent. They have the right move and looks. When I opened the boxes they jumped out like crickets."

If you want to get the best results and

"Hatch the Most Chicks that Live"

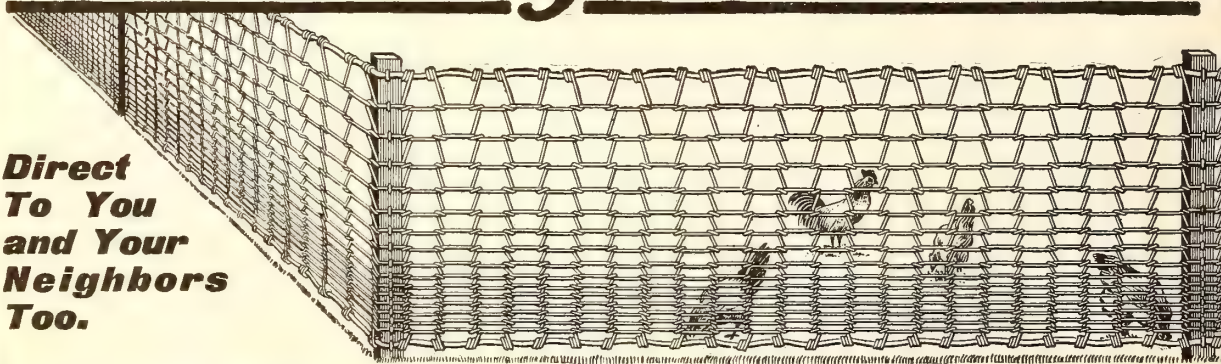
start with a Prairie State outfit. Free catalog tells all about the exclusive features of these machines. Describes the Prairie State moistened Sand Tray which keeps the eggs in moist natural heat. Explains the Eddy Current System of Ventilation which carries off deadly gases, and supplies the necessary oxygen for raising strong, healthy, early maturing chicks. Don't buy any incubator until you get the 1916 Prairie State catalog. IT'S FREE - POSTPAID. SEND FOR IT TODAY.

PRAIRIE STATE INCUBATOR CO. 201 Main Street **Homer City, Pa.**

(42)
**THREE OR FOUR
100% HATCHES**
Dear Sir:—Please send me one of your poultry books. I have used a 150-egg Prairie State for several seasons very successfully. Three or four times 150 chicks from 150 eggs. As soon as I am able to handle more chicks, I expect to purchase another incubator.
H. S. HAZELGROVE, Elko, Va.

Poultry Fence

**Direct
To You
and Your
Neighbors
Too.**



48 Inches High 24c. a Rod.

60 Inches High 28½c. a Rod.

Not a flimsy netting but a Poultry Fence. Made of Open Hearth Basic Steel wire, drawn, annealed and galvanized in our own mill. A strong, durable, **Rust Resisting Fence** that will last for years. Closely woven—line wires only 1½ inches apart at the bottom. Stays 4½ inches apart. Positively the biggest poultry fence value ever offered at the price.

48 Inch Combination Poultry and Stock Fence 32½c. a Rod.

This extra ordinary fence has same construction as above but made much heavier. Woven close enough to turn chickens and strong enough to turn stock. Line wires spaced 1¼ inches at bottom. Stays 6 inches apart. Stretches perfectly and stands up on the posts like a farm fence. Does not sag, bag or buckle. The best combination poultry and stock fence on the market for the money.

SOLD DIRECT TO YOU AT MONEY SAVING PRICES.

Large Catalog showing 100 styles of Farm, Poultry and Lawn Fence, also **Special Prices on Steel Posts** mailed free on request. Write for it today.

KITSELMAN BROTHERS, Box 295 MUNCIE, INDIANA.



**1/2
Million
Poultry
Raisers use
THE RELIABLE
INCUBATOR**

Get My Sensational 1916 Incubator Offer!



J. W. MYERS, Pres.
Reliable Incubator
& Brooder Co.

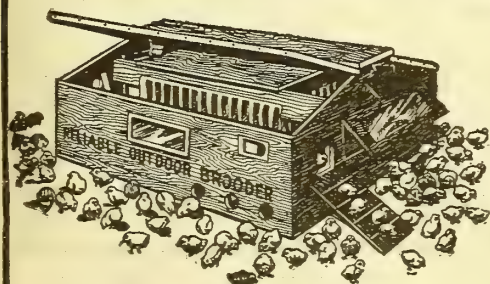


If you are in the poultry business with a cheaply built, unsatisfactory incubator, or if you are about to go into this profitable business with a small amount of money, I have a proposition that will look good to you.

The prices of really high class incubators have been rather high, and many people have bought cheaply built machines which proved to be unsatisfactory, with the result that they lost faith in all incubators.

Now, in this, the 34th year of my remarkable success with the **Old Reliable Incubator**, I am going to place one or more of my Old Reliabilities in every county in the United States, and at a low price.

I Want You to Let Me Give You My Startlingly Low Price on This World-Famous Machine



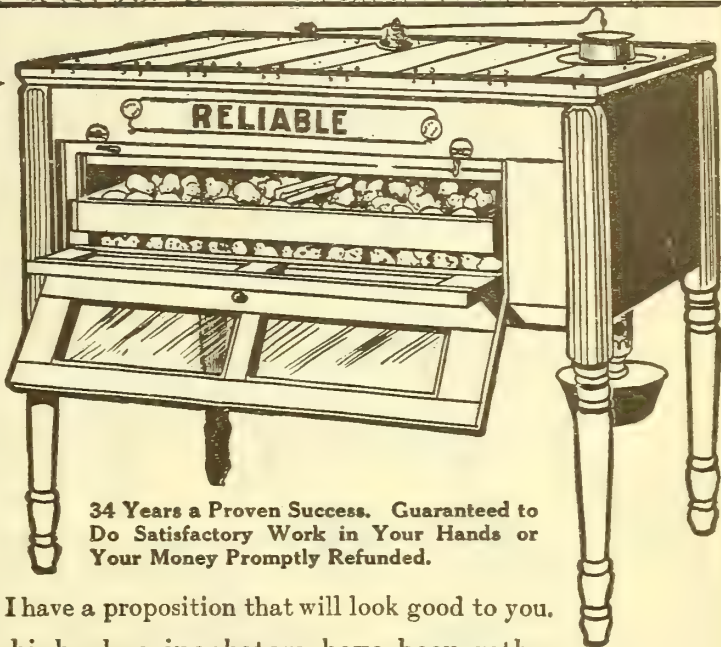
My Reliable Brooder will save you money on young chicks. They take care of the little chicks better than the hen, and are ready for work all the year round. They are built in all sizes, on scientific principles, for either outdoor or indoor use, hot-air or hot-water heated. You can't get along without a good brooder if you want the best results in the poultry business.

The BabyGrand Incubator

is the sensation of the day in the incubator world. A 50-egg, all-steel machine, with double walls, scientific regulation; guaranteed successful in your hands or money refunded. Will hatch every hatchable egg in any climate or weather. Sent complete, ready to work, charges paid, and with full directions for operating. **Price only \$5**, cash, check or postal order. This incubator enables you to get into the poultry business at little cost and be sure of the best results. We refer you to any bank as to our responsibility.



50 Eggs \$5



34 Years a Proven Success. Guaranteed to Do Satisfactory Work in Your Hands or Your Money Promptly Refunded.

and let me tell you what sort of a hatching machine the Old Reliable is, before you risk your money on any other.

In this limited space I can give you only a few facts about the Old Reliable:

It has been on the market 34 years.

It is in use at many government experimental stations—U. S. Government, State Governments, and foreign governments.

It has **never been beaten at any competitive exhibition**—national,

international, state or county—holds **over 1200 First Prizes awarded on superior merit.**

It is the favorite incubator of the big professional poultry raisers, the successful incubator for amateurs—**nearly half a million now in constant use.**

The Reliable is the Only Incubator With a Double-Heating System

combining hot air and hot water. Copper hot water tank extends entire length of egg chamber, holding a large body of hot water over the eggs at all times—maintains the proper hatching temperature in any kind of weather.

The Reliable Incubator is built of the very best kiln-dried redwood, with double walls, top and bottom tongued and grooved. Has the most sensitive and accurate regulating system, moisture and ventilation perfect, and a Government Tested Standard Thermometer. Has double glass doors, roomy chick nursery—in fact, it is the recognized standard hatching machine of America, made in the world's biggest incubator factory.

Guaranteed to Hatch Every Hatchable Egg, Regardless of Climate, Altitude or Weather

and now sold at a price that makes it the biggest incubator bargain ever offered to the poultry world.

I want to call your attention also to my Reliable Bantling Incubators at sensationally low prices. They are world-beaters on quality and price.

If you will let me give you full information about the Reliable, and get my prices before you buy a machine, I can save you trouble and money.

J. W. MYERS, Pres.
Reliable Incubator and Brooder Co.
Box A-1 Quincy, Illinois

Write for my 34th Annual **FREE Poultry Book** of 100 pages, with many illustrations. Gives much practical information on poultry raising based on 40 years experience.

J. W. MYERS,
President

**Reliable Incubator
& Brooder Co.**
Box A-1 Quincy, Ill.

Enclosed find (check, money order, or cash) for \$5.00, for which please send me a Baby Grand Incubator, with full directions for operation, all charges paid. My money is to be returned if machine does not prove satisfactory in my hands.

Please send me further information regarding the Baby Grand Incubator.

My Name

P. O. State

R. F. D. or St. No.



Jim Rohan, President

My FREE Book Tells How Thousands Make Big Hatches-Big Profits

You Can Do
the Same



I Ship Quick from
Kansas City
Buffalo
Minneapolis
Racine

25 Times World's Champion



"In 25 world's greatest matches Belle City won with perfect hatches"

Learn how *World's Championship Prize Winners* make their big hatching increases and big cash profits. You can do the same as easily as they do. They tell you how in my big Free Book, "Hatching Facts"—their own experience in their own words—with one hundred actual photographs of prize-winning hatches. Users of my Belle City win championships every year in competition with users of all other makes—many never having used an incubator before.

But better than the 25 World's Championships is the big hatching success and profit-paying success of hundreds of thousands of users of my Belle City in all parts of the country. 402,000 in use. In my big Free Book, "Hatching Facts," I publish, for your information, many letters from users in every community telling their experience—the most profitable record of poultry success you can have. Write for book. Besides the valuable pointers which winners give you, the book contains full description—all facts—proofs—particulars about

Belle City Incubators and Brooders

"An outfit made for hatching that there's no such thing as matching"

The book shows that my Belle City has everything worth having in and on an incubator—copper tank—double disc

See what the 25 Times World's Champion Belle City Hatching Outfit is like

Get My \$1300.00 Gold Offers

With the Free Book comes my \$1300.00 Gold Offers for the season now beginning. *Conditions so easy anyone may receive biggest pay.*

Learn how I paid one Belle City user \$156.25—another \$50.00—two others each \$45.00—many others from \$33.00 down.

Get the book. With it comes my ten-year personal money-back guaranty—my low price—same as last year—freight prepaid—1, 2, 3 months' home test—everything.

Learn how thousands have made big hatches and cash profits with my 25 times World's Champion Belle City Incubator—how my World Famous Belle City Brooder saves the chicks and raises the highest percentage—how you can make the most money out of chickens this year whether you go into it on a large or small scale.

"Simply beats the dickens
How it hatches out the chickens"

Don't let this big opportunity slip. Write me today

self-regulator, safety lamp, double walls and double door and dead air space all over, with roomy nursery and strong egg tray. "Tyco's" thermometer, egg tester, sun hinge burner, funnel—everything you need, including valuable instruction book on operating, hatching and care of chicks. The book tells you all about my World Famous double walled top heat Belle City Brooder guaranteed to raise largest percentage of chicks every time—a fitting companion to my World's Champion Belle City Incubator.

This is the kind of hatching outfit that has made all these wonderful Belle City records, the very same kind of hatching outfit that I will send you if you decide to own a Belle City and join the profit makers. But first of all see my Free Book. It costs you nothing but a postal. Write me today for book, "Hatching Facts." Jim Rohan, Pres.

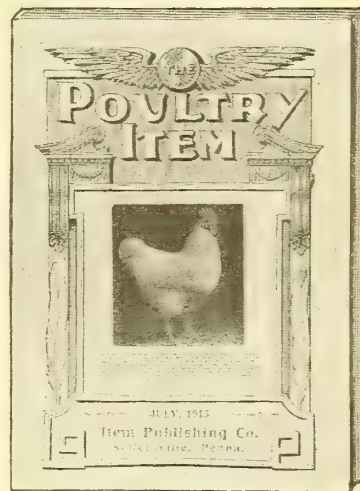
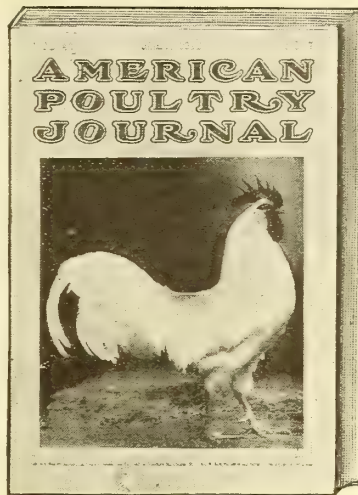
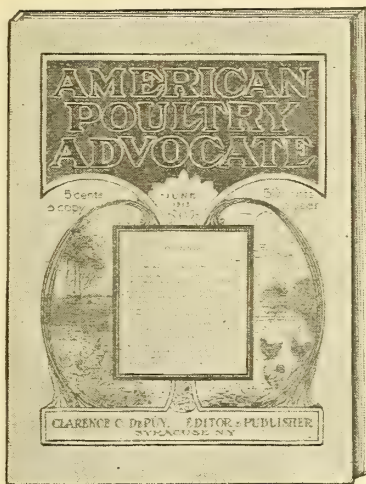
Belle City Incubator Co.
Box F27 Racine, Wis.

Get My Free Book "Hatching Facts"

Greatest book of practical hatching information ever published.

Great, big colored pictures give you an exact idea of this wonderful hatching outfit—402,000 in use—the kind used by all the Belle City World's Championship Winners—the kind used by the U. S. Government, Department of the Interior—the kind used by Agricultural Colleges—"it incubates in all the states"—the kind that won the gold-lined silver "Tyco's" cup—the kind that will give you hatches that you will be proud of—the kind that will win big success and cash profits for you—the kind that will put you into the Championship Class from the start—will make you cackle with joy. Write me today.





A WEALTH OF POULTRY KNOWLEDGE

\$1

**All Three for the
Regular Price of One**

\$1

This offer will appeal to every red blooded poultryman. The monthly publications embraced in this offer are leaders in their chosen field and well known throughout the country. All three are pioneers—they have been tested and have passed the final examination—the “survival of the fittest.”



American Poultry Journal, Chicago, Ill.

Established 1874

Has the envious reputation of being “The One Great Poultry Paper of America.” It’s the oldest poultry paper in America and the largest and best poultry paper in the world. Its circulation covers the entire United States, Canada, Mexico, and several hundred copies are sent to foreign countries where the best is considered just good enough. It contains from 68 to 252 pages each issue, and is mailed to subscribers promptly on the first of each month.

American Poultry Advocate, Syracuse, N. Y.

Established 1892

Is one of the most widely known and consistently advertised publications in the field. It is composed of interesting and instructive reading and is conceded to be one of the best, clean-cut poultry papers in the east. Published monthly.

Poultry Item, Sellersville, Pa.

Another “breeder’s choice,” is well edited, progressive and instructive, finding popular favor among those poultrymen who enjoy good editorials, not “muckraking.” The helpful hints given in the many articles are advantageous to both amateur and professional. Published monthly.

**These three papers,
the choice of breed-
ers, will be sent to
you postpaid every
month for one year,
at half price.**

American Poultry Journal, 1 yr., \$1.00	} All 3 for \$1.00
American Poultry Advocate, 1 yr., .50	
Poultry Item, 1 yr., .50	

The three papers being sold together for the price of American Poultry Journal alone makes this one of the best offers which can possibly be made.

Both new and renewal subscribers may take advantage of this offer. New subscriptions will commence with current issue. Renewal subscriptions will be extended one year from expiration of present subscription. This offer void after May 31st, 1916.

SEND FOR SPECIAL CLUB RATES ON 2 OR MORE ORDERS
AMERICAN POULTRY JOURNAL PUBLISHING CO.
542 S. Dearborn St., Chicago, Ill.

**American Poultry Journal Publishing Co.,
542 So. Dearborn Street, Chicago, Illinois.**

Gentlemen:—Enclosed find \$1.00 for which send me one year’s subscription to American Poultry Journal, American Poultry Advocate, and Poultry Item.

Name.....

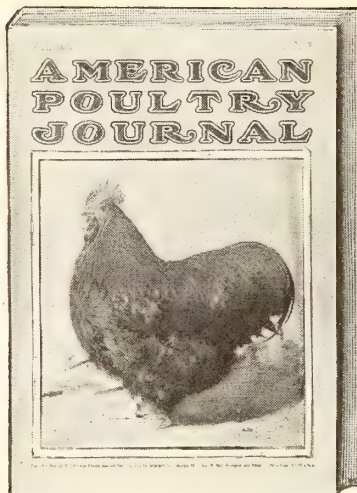
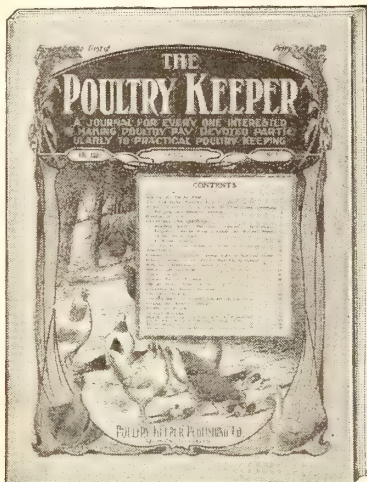
Town.....

Route or Street NO.....

Renewal.....State.....

Canadian subscribers add 75 cents and foreign subscribers \$1.50 extra for postage.
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2



A WEALTH OF POULTRY KNOWLEDGE

Save One Dollar

Here is your opportunity to get the three oldest poultry papers in America at half price. All three are published monthly—filled with good, sound, helpful advice, which may save you many times the cost of your subscription.

**Three for
the price
of One—**

That's what
you get when
you subscribe
to this com-
bination at
this time.

American Poultry Journal, Chicago, Ill.

Established 1874

"The One Great Poultry Paper of America" is conceded by all to be the leading poultry paper of the world. It contains from 68 to 252 pages in each issue, profusely illustrated; contains no free reading notices or puffs for advertisers, but sound common sense articles, the kind that are profitable to both amateur and professional poultrymen. Mailed to subscribers promptly on the first of each month, it arrives when expected and avoids disappointment.

Western Poultry Journal, Cedar Rapids, Ia.

Established 1889

Has long been recognized as one of the most up-to-date and progressive poultry papers of the West. Edited by E. E. Richards, the present President of the American Poultry Association. Clean, instructive common sense articles on the care of poultry—and editorials of like nature make this one of the favorite poultry papers in the Western States.

Poultry Keeper, Quincy, Ill.

Established 1883

Is the second oldest poultry paper of America. Although not as large as the other two, it has a following of readers who stand by it like the "Rock of Gibraltar." The many interesting articles each month make it well worth reading and it fits nicely into this well selected combination of poultry papers.

American Poultry Journal, 1 year, \$1.00	} ALL FOR \$1.00
Western Poultry Journal, 1 year, .50	
Poultry Keeper, 1 year, .50	

No matter where you are located, how many chickens you keep or how much you know about poultry, you cannot afford to let an opportunity like this slip by. Think of it—**ALL THREE** for the regular price of American Poultry Journal alone.

Both new and renewal subscribers may take advantage of this offer. New subscriptions will commence with current issue. Renewal subscriptions will be extended one year from expiration of present subscription. **This offer void after May 31st, 1916.**

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AMERICAN POULTRY JOURNAL PUBLISHING CO.

542 S. Dearborn St., Chicago, Ill.

American Poultry Journal Publishing Co.,
542 So. Dearborn Street, Chicago, Illinois.

Gentlemen:—Enclosed find \$1.00 for which send me one year's subscription to American Poultry Journal, Western Poultry Journal, and Poultry Keeper.

Name

Town

Route or Street No.

Renewal State

Canadian subscribers add 75 cents and foreign subscribers \$1.50 extra for postage.

Void after May 31, 1916

1

The Great Incubator Value of 1916

This Is My Master Production

FRRIEND, you take no chance with the 1916, "Peerless-66" Hatcher. Tested by the tens of thousands under all conditions for the past four years, I offer you now in the improved 1916 "Peerless-66" the finest, the cheapest, the most efficient hatcher I have been able to produce after 30 years in this business.

over 50 Improvements for 1916

This 1916 Peerless is the one Hatcher without a fault. It is the last word—finality. I do not see where one screw could be changed to make it better. Its record of hatches in the hands of users all over the world has never been equalled. I guarantee it to hatch every egg that is hatchable.

Note the 16 Great Features Below

This is the only practical, all-metal, fire-proof, ever-lasting machine ever produced. The only machine of its size with a perfect heating and heat-distributing system. The only incubator ever produced alike adapted to the largest poultry raiser and the beginner as well.

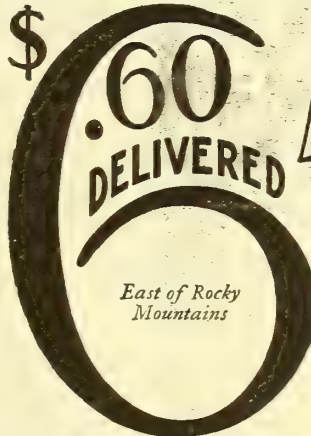
The "Peerless-66" is built on the famous Sheer Unit System. Small enough to give the greatest efficiency. Large enough to give the greatest economy. Good enough so it will last for years—just add more units as you need them.

Hot Air or Hot Water

at the same price. Never before has such an offer as this been made. We recommend the hot air, however, as equally as efficient as any hot water machine ever built and most satisfactory for general use. However, you are the judge—you take your choice—and all at the same wonderful price.

Guaranteed

We give the broadest and most liberal honest Guarantee ever given on a hatcher. I am so sure and positive of what this hatcher can and will do, because I know what it has done, that I guarantee the Peerless-66 to hatch every egg that can be hatched.



East of Rocky Mountains

**Heat
Moisture and
Ventilation
—All Are Perfect**

The three great essentials—heat, moisture, ventilation—all these are perfect in the "PEERLESS-66"—all automatic, all interlocking, all working together as a self-regulating unit. This is true of no other hatcher. The machine is equipped throughout with the famous Sheer fixtures. The wonderful Sheer Wafer Thermostat Regulator automatically controls heat, regulates moisture and ventilation. Overheating is impossible. The heating plant is a marvel. Simple, positive, unailing.

No heat is wasted. There are no corners, no cold corners. No chilled eggs. This system affords the most perfect heat ever attained in any incubator in the world.

Send for This Great Book and Record of Results

The new Peerless Book is ready. It tells the facts about the Peerless-66—the additional facts we have not space for here—the truth, the whole truth and nothing but the truth. It contains the testimony of those who have used the Peerless metal hatchers and who are glad to tell you of their satisfaction and results. Send for this book today—it's free—your copy is ready—or better yet, send us your order NOW.

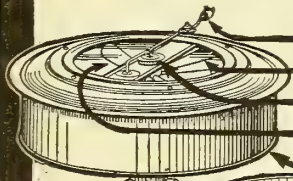
The Marvelous Price of the Peerless-66 for 1916 is \$6.60. Delivered, anywhere east of the Rocky Mountains.

Pacific Coast price, \$7.00, delivered.

It is the biggest incubator value the world has ever seen.

Peerless Brooders

are as wonderful as Peerless Incubators in efficiency, in economy and in rearing strong chicks. Heated automatically by simple hot-water coils at top, lamp outside, cannot overheat, injury to chicks impossible. Biggest improvement in brooders ever known.



**Rated
Capacity
66
Eggs,**

**Actual
Capacity
70
Large
Hen
Eggs**

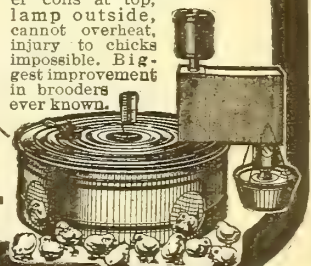
**Perfect
Regulation,
Ventilation,
Moisture**

1. Absolutely automatic heat control.
2. Heat distribution through radiating enlarging flues, insures uniform heat in every part of chamber.
3. Heater pipe keeps all fumes out of egg chamber.
4. Glass Top. Visible Egg Chamber.
5. Telescope Top, forming complete and perfect insulation.
6. Rest for top. Regulator never disturbed.
7. Large egg capacity.
8. Moisture automatic.
9. Round egg chamber.

10. Ventilation automatic.
11. Lamp slides out.
12. Telescoping flue.
13. "Sheer" Automatic Lamp.
14. Large oil capacity.
15. Lamp on solid metal apron.
16. Long angle-iron legs; no stooping.

H. M. SHEER CO., 165 Hampshire St., Quincy, Ill.

Globe Grain & Milling Co., Pacific Coast Distributors, Los Angeles, California





Every Chick Joins The Rush

To get his share of Conkey's Buttermilk Starting Food—the baby chick food with buttermilk in it.

Try it out yourself. You can get a free sample package, enough to feed five chicks one week, at any seed, feed, druggist or hardware dealer who carries Conkey's Poultry and Stock Remedies. If there is no Conkey dealer near you, send us the name of the dealer from whom you regularly buy your poultry supplies and we'll send you one of these big samples of Conkey's Buttermilk Starting Food.

Poultrymen have long known the desirable qualities of buttermilk as a food for little chicks. They knew that the buttermilk was just the thing needed by the delicate digestive tract of the baby chick. They knew the good results obtained in feeding buttermilk to little chicks to keep off White Diarrhea, the dread of every poultryman who ever raised a hatch. The trouble lay in getting good buttermilk, clean and sanitary and getting it regularly.

Conkey's Buttermilk STARTING FOOD

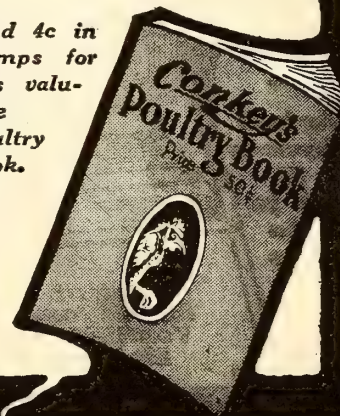
is the result of the attack on this problem by Conkey poultry experts and Conkey chemists.

First they secured a sure, constant supply of good buttermilk. Then they evaporated off the water that forms 90 per cent of the buttermilk, leaving only the digestive and food elements in a dry powdered form. Next they mixed the buttermilk with a balanced Starting Food of clean wholesome grains, just right to help the little fellows over those critical first three weeks and bring them out, strong and sturdy.

In every hundred pounds of Conkey's Buttermilk Starting Food you buy you'll get the equivalent of approximately 50 pounds of good buttermilk. All the good qualities without the muss and fuss. Best for the chicks and best for you. A complete food in itself, not a medicine. Get your sample—now.

When disease gets into your flock—Don't Worry—Conkey will cure them. The Conkey Poultry Line contains a specific remedy for each poultry disease. Guaranteed to do the work or your money back. Buy Conkey's Poultry remedies on that basis.

Send 4c in stamps for this valuable Poultry Book.



THE G. E. CONKEY CO.
1000 Conkey Bldg., Cleveland, O.



POULTRY RAISERS, Here's My Best Incubator and Brooder Offer in 21 Years of Experience



J. S. GILCREST
President
Life Member American
Poultry Association

Send Me Your Name at Once for Full Details

In all my experience I have never been able to equal the offer I am making this season on "Successful" Incubators and Brooders. This year, when prices in materials everywhere have advanced, I am not asking an extra nickel over the former price for the "Successful"—the big king of them all in quality—yet I am giving you the same heavy copper tank, the heaviest on any incubator made; the same leak-proof and wear-proof tank construction and unbeatable case. In short, every one of the big quality features that have made "Successful" Incubators the pride of successful poultry raisers in all parts of the country. Read the 20 Big Points for success in panel to the right and write me for this remarkable quality and price offer. Go in for big profits and succeed with

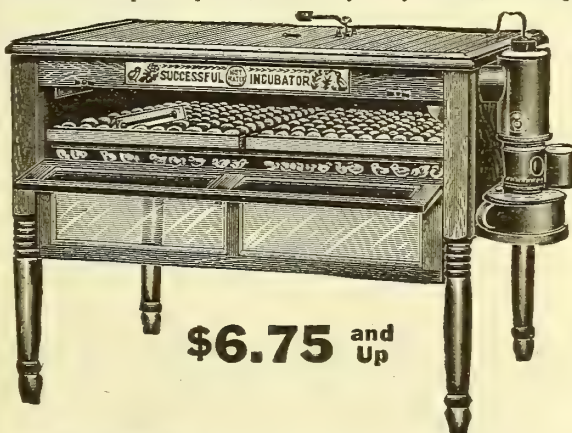
"SUCCESSFUL" Incubators and Brooders

Remember that back of these machines there are 21 years of success. They have stood the test for more than a generation. The principle of construction has never called for change. It has made good and more. Was built correct in the first place—has proved economical, dependable and productive of big hatches of sturdy, healthy chicks.

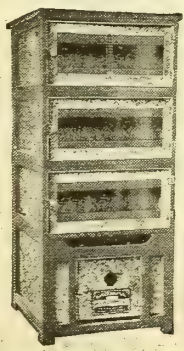
No matter what incubator you now favor, get my offer. Learn how you can be sure to succeed with the "Successful." Not only for one year—but for many years—not only with spring hatches but hatches at any time of the year, even in coldest weather—this is the incubator that I personally and the Des Moines Incubator Co. stand back of and positively guarantee will hatch larger and stronger chicks and larger percentages than any other incubator when operated under the same conditions. The only incubator in the world that is cabinet made. The only hatcher that heats around the colder edges of the body first. Guaranteed to vary not over a fraction of one degree throughout the entire hatch—because of the fact that our own patented lamp and wafer thermostat regulator are 99.9-10 per cent perfect. Write today for my "Successful" catalog free.

Tells the real facts about present-day construction in incubators and brooders. Frank and comprehensive—tells how to insure success. Write for my book if only to get my low price offer and guaranty—the strongest guaranty ever put behind an incubator. Succeed with the "Successful" this year. You want "Successful" Brooders, too—the only brooders made with automatic heat regulator—therefore the best chick preservers. Address

J. S. GILCREST, Pres. and Gen. Mgr
Des Moines Incubator Co.
1 Second Street
Des Moines, Iowa



\$6.75 and up

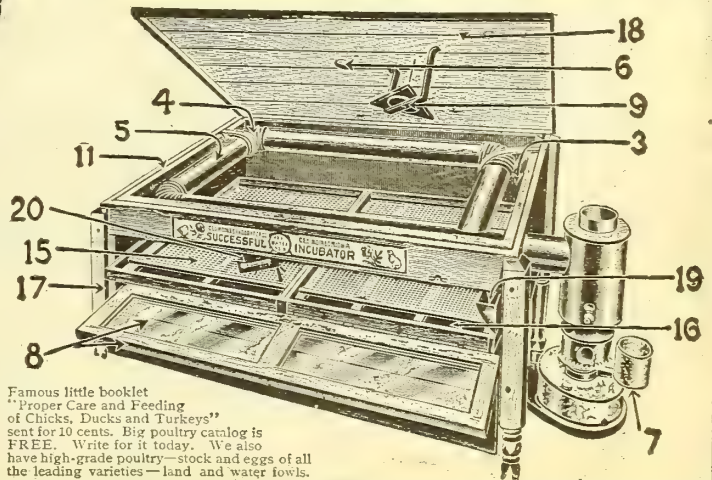


Fresh Green Feed 15c
Make Hens Lay Per Bu.

Turn loafing hens into industrious layers—have eggs to sell at top-notch prices by feeding sprouted grain. One bushel oats, wheat or rye makes three bushels of tempting, crisp green feed in the

"SUCCESSFUL"
ALL-STEEL SECTIONAL
GRAIN SPROUTER

Answers the feed problem—takes care of young chicks too—makes them grow. Made entirely of steel—double walls—fireproof—cannot warp, shrink or swell. Lasts a lifetime. Write today for booklet and 1916 offer.



Famous little booklet
"Proper Care and Feeding
of Chicks, Ducks and Turkeys"
sent for 10 cents. Big poultry catalog is
FREE. Write for it today. We also
have high-grade poultry—stock and eggs of all
the leading varieties—land and water fowls.

The 20 Big Strong Points for Success

- 1—I personally guarantee that the "Successful" Incubators will hatch larger and stronger chicks and a larger percentage than any other incubator when operated under the same conditions.
- 2—My remarkably low price offers with high quality.
- 3—The only hatcher that heats the colder edges of the body first.
- 4—Round corners on tank, giving faster current, more heat, even regulation.
- 5—Heaviest copper tank used on any incubator.
- 6—Only one scientifically ventilated. Admits cold air at center of top. Does not create draft which dries out eggs.
- 7—Safety attachment on lamp burner—provides absolute protection from fire.
- 8—Only incubator with two glass doors—through which thermometer may be seen.
- 9—Combination wafer thermostat regulator.
- 10—The only machine guaranteed with a guaranty that guarantees and evades no issue.
- 11—Built like a refrigerator.
- 12—Case non-warpable.
- 13—Weighs more.
- 14—Costs less per pound.
- 15—Strongest, most durable egg trays.
- 16—Nursery under egg trays. The greatest feature applied to artificial incubation.
- 17—Detachable legs, allowing machine to be stored in very small space.
- 18—The only incubator in the world cabinet made.
- 19—Simple, effective application of moisture when necessary.
- 20—Adjustable thermometer. Never necessary to open doors or pull out the trays to read temperature. Thermometer is stationary; chicks cannot knock it over.

Poultry Lessons FREE

Easily worth \$25 or more. 20 lessons in all, the real genuine down-to-brass-tacks facts that explain everything just as you want it. Free to everyone buying a "Successful" Incubator or Brooder.



Shoemaker Poultry Farm

Freeport Illinois

Established
over
26 Years

Quality Will Tell

At the big Chicago Coliseum show, in classes that held the best birds ever shown there, our birds made the remarkable win of

23 FIRSTS

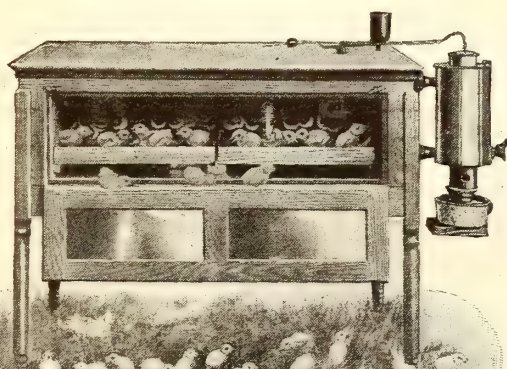
9 SECONDS 7 THIRDS 3 FOURTHS 2 FIFTHS

A total of 44 prizes out of 55 entries, the largest win of the show.

This wonderful winning proves that "Shoemaker Birds" are the birds for you to buy. It tells the story of why our business has increased year after year ever since 1889. Our motto is "a dollar's worth of value" for every dollar received, that is why we retain our old customers. We want you to know all about our big factory where we manufacture our own incubators and brooders, our mammoth poultry plant where these prize winners are bred and raised, our method of square dealing, so

Send for Our 1916 Book of Poultry

It is not like an ordinary catalog, but a big 200-page text book on poultry breeding in all its branches; no other breeder in the country issues one like it. It tells you all about our wonderful birds, giving you prices on them; all about our Globe incubators, brooders and other appliances, giving the prices on same. It contains a number of color plates of leading varieties of fowls, showing the birds in their natural plumage. It tells you all about poultry ills, how to prevent and cure them, tells you what and how to feed. In fact, it is a book that if interested in poultry you cannot afford to be without. Write for it today, enclosing 15 cents. If you think the information on poultry contained therein is not worth the money, we will cheerfully refund same.



Globe Incubators and Brooders

are the best machines on the market today and we are willing to prove it. We use the most modern of machinery, our workmen are the best that money can employ and no machine leaves the factory until it passes the most rigid of examinations, for our good name is back of every one of them. Our motto is "how good we can build them," not how cheap. The remarkable hatches which our customers obtain is proof positive that you can afford to buy but one incubator and that is the GLOBE.

WRITE ME TODAY.

C. C. SHOEMAKER

Breeder of Birds of Better Quality

Box 605

Freeport, Illinois

1889

1916

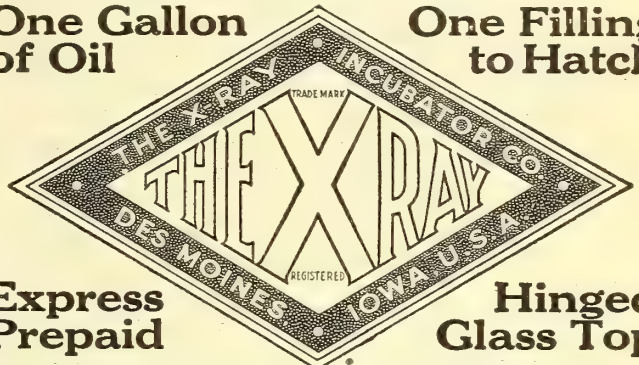


Here's the Secret of Big Hatches

THE heat from the lamp underneath first strikes the X-Ray Vapor Generator, creating a mild moisture which pervades the entire egg chamber. The heat passes on to the X-Ray Duplex Heater, which carries it to every corner, each egg receiving the exact amount of heat and moisture necessary to hatch it. This simple method is an exact duplication of nature's way of hatching—without it you cannot hope for the biggest hatches. Nobody else can duplicate this construction, for it is completely covered by X-Ray patents. But back of these patents are men with the know how. Men who have spent their lives building incubators and studying incubators with one thought of Biggest Hatches of Sturdy Chicks uppermost in mind.

**One Gallon
of Oil**

**One Filling
to Hatch**



**Express
Prepaid**

**Hinged
Glass Top**

It's this incubator know-how that has made the X-Ray the foremost machine. This incubator know-how accounts for the amazing records made by the X-Ray in all parts of the world. Don't let anybody tell you that all incubators are alike or nearly so. You know how some incubators cook the eggs by a hot, dry blast. You know how others spoil the hatch by failing to maintain the exact temperature—the mild, moist temperature that is necessary for the biggest hatch. In these features and in thirteen other special features the X-Ray is different and way ahead of the others.

Read About the Fifteen Special X-Ray Features in Our Big FREE Book

We have published some mighty fine incubator catalogs in our day, but none of them equals our *Big 1916 X-Ray Incubator and Brooder Book*. Get it free. It tells all about the fifteen exclusive X-Ray features. Tells about the central heating plant of the X-Ray. The lamp squarely underneath, every particle of heat used, big saving of oil. You ought to know all about the X-Ray

big tank. Only one filling to a hatch. Think what that means, all the work and worry of filling the tank daily done away with. You ought to know all about the X-Ray Automatic Trip which automatically, unfailingly keeps the temperature exactly right. Before you buy any incubator you ought to know all about the X-Ray and the big free book tells everything.

Get Your X-Ray by Express Prepaid

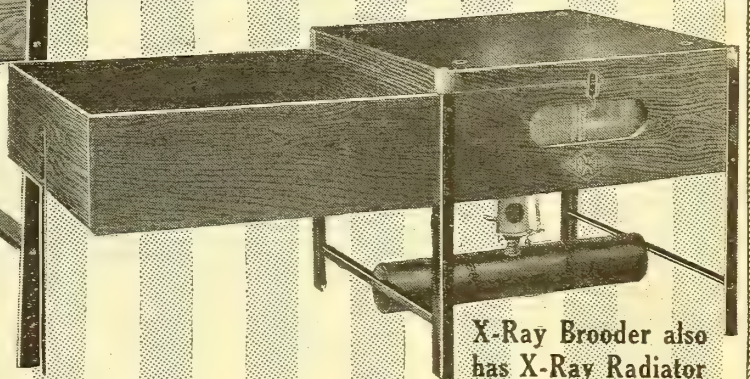
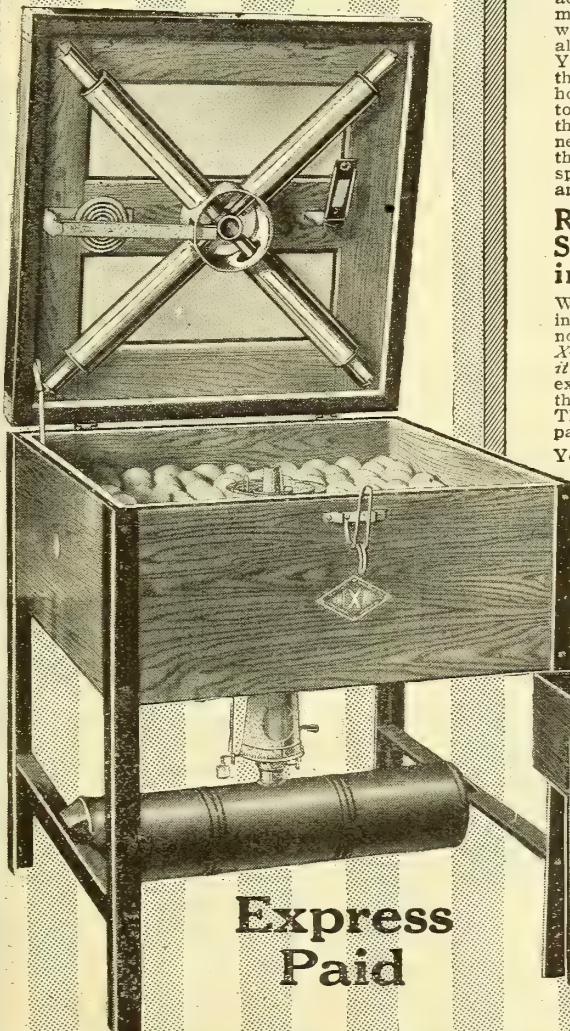
That's another big point to think about when buying an incubator. Don't risk expensive delay by slow freight shipments. Every day saved counts big in the final results. You'll save many days by getting your X-Ray by Express Prepaid. Practically all X-Ray Incubators are now shipped by this rapid method, the only exceptions being the few isolated cases out of the express zone.

Get started right by sending today for the Free X-Ray book. It's full of facts you ought to know. Everything is told and pictured in an interesting, common sense way that makes it easy to understand. Send for the *X-Ray 1916 Book No. 10* tonight.

The X-Ray Incubator Co.

Dept. 10

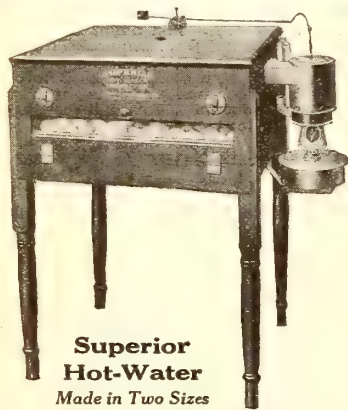
Des Moines, Iowa



The Cyphers Co's Way-

EVERYONE who wants to raise chicks for profit or pleasure—who wants **big hatches** of strong, rapidly-growing chicks—will **insure success** by following the “Cyphers Way.” Tens of thousands of successful poultry growers in all sections of this country, in Canada, and in foreign lands, use Cyphers Company's equipment, and **follow our methods.**

On large practical poultry farms, where thousands of chicks are hatched each season; on small poultry plants, where one or two poor hatches may mean a serious set-back—in fact, wherever chicks are hatched in large or small numbers, Cyphers-built Incubators have been for the past **twenty years**



**Superior
Hot-Water**

Made in Two Sizes

Prices: 65 Eggs, \$12.00. 130 Eggs, \$16.00

the acknowledged leaders—they **hatch better, last longer**, require **less attention** and produce **larger and stronger chicks**—“the kind with the kick in them.”

What other successful poultry growers have done with their Cyphers machines, YOU, Reader, can do to-day.

Why take chances—why waste time and money with **inferior** equipment?

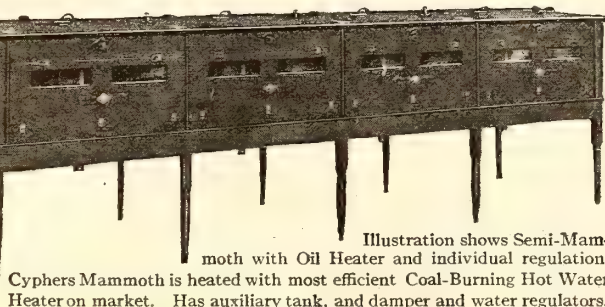
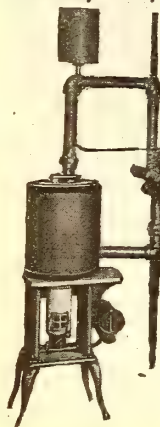


Illustration shows Semi-Mammoth with Oil Heater and individual regulation. Cyphers Mammoth is heated with most efficient Coal-Burning Hot Water Heater on market. Has auxiliary tank, and damper and water regulators.

Cyphers-Built Incubators \$12 to \$40

Three Styles—Eight Sizes

In these machines you get the benefit of the twenty years experience of the **most expert incubator makers.** They are the logical incubators for poultrymen who have reached success, and are **especially valuable for beginners**, who thus can depend upon getting **big, successful hatches right from the start.** Whether you prefer a hot-air or hot-water incubator, there is a Cyphers-built machine in a size to suit your needs.

The Superior Hot Water Hatcher

Has all the time-tried features of Cyphers Standard of design, construction and finish. The water boiler and tubular tank heating system are of heavy-weight copper. Lamp has seamless bowl; burner is best on market; case is **wood**, attractively finished in golden brown, with brass trimmings; has **double walls**, well insulated; equipped with Standard Cyphers Complete Regulator. Has **forced water circulation**; is automatic in ventilation. (See illustration.) **Fully guaranteed.**

The Standard Cyphers Incubator

The machine that for **twenty years** has been recognized as the “**standard hatcher of the world.**” Tens of thousands of them are in successful use in every civilized country on the globe. They are the last word to date in incubator building. Are built to hatch successfully in **all climates, under widely different conditions**, in the hands of all sorts of people, and with reasonable care will last a lifetime. (See the illustration herewith.) **Satisfaction guaranteed.**



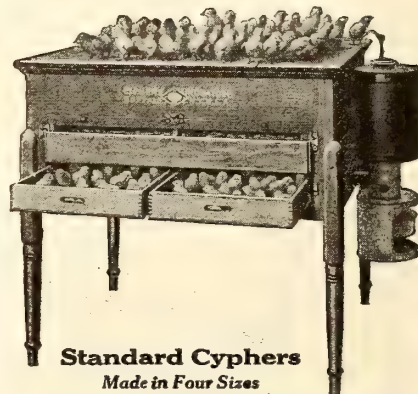
**Columbia
Hot-Air**

Made in Two Sizes

Prices: 140 Eggs, \$16.00. 250 Eggs, \$22.00

The Columbia Hot-Air Incubator

The best incubator on the market at the price. Has **wooden** case, attractively finished in dark green, with brass trimmings and **double, well-insulated walls.** Seamless-bottom lamp bowl, best quality brass burner, **Cyphers complete regulator.** Fume-proof, forced-draft heater. Automatic in ventilation and embodies **diffusive** principle. **Fully Guaranteed.**



Standard Cyphers

Made in Four Sizes

Prices: 70 Eggs, \$15.00. 144 Eggs, \$23.00
244 Eggs, 34.00. 390 Eggs, 40.00

Cyphers Mammoths and Semi-Mammoths

The latest-pattern Cyphers Semi-Mammoth Incubators, for 1,200 and 1,600 eggs, and the Cyphers Mammoths for 4,000 eggs and up, are **built in sections**, on the same principle and with the same high-grade materials that have made the Standard Cyphers famous. **Most efficient and economical** large hatchers on the market. Sections are crated separately for safe shipment; are easy to set up; fully guaranteed. Write for Special Circular.

Hatching and Brooding Chicks

YOUR season's profits will depend largely upon the number of *strong, rapid-growing chicks* you are *able to raise*. Every requirement for successfully raising chicks is provided in the "Cyphers Way." It is necessary to have a Brooder or a Brooding Hover that can furnish all the heat needed for the chicks in the *coldest and most changeable weather*. A *dependable regulator* is essential, and to be strong and vigorous the chicks must be provided automatically with a *constant supply of pure, fresh warmed air*. All these *highly important essentials* are embodied in Cyphers Brooders and Hovers described herewith.

The Cyphers Coal-Burning Colony Hover

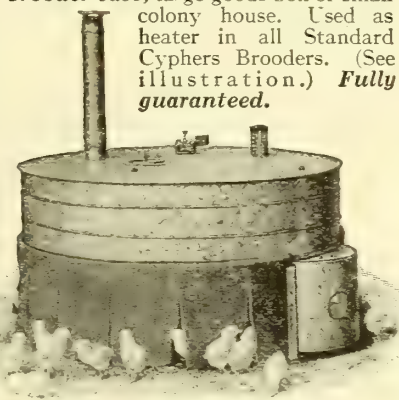
With this Hover you can brood chicks in flocks of 300 to 1,500 each, and do it *more cheaply* than ever before. In health of chicks, in low cost of labor and fuel, in simplicity and ease of operation, Cyphers Coal-Burning Colony Hover *has no equal* where chicks are to be brooded in large numbers. Its ample fuel capacity and automatic regulator will keep the chicks warm throughout the *coldest night*, maintaining a regular temperature of from 90 to 95 degrees under the hover and keeping the entire room comfortably warm. Made in *five sizes*. Write our nearest office for Special Circular.



Cyphers Colony Hover. Price, \$15.00 Up.

The Cyphers Adaptable Brooding Hover

For outdoor and indoor brooding. A popular and efficient Brooder at a *low price*. Tens of thousands of these standard Hovers are in successful use in all parts of the world. Is *self-regulating, self-ventilating, fume and gas-proof*, all-metal, and fire-proof. Lamp positively cannot blow out. Easily attached to *home-made brooder case*, large goods box or small colony house. Used as heater in all Standard Cyphers Brooders. (See illustration.) *Fully guaranteed*.



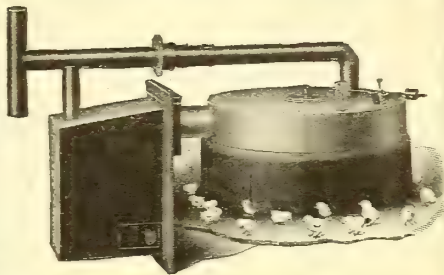
Cyphers Portable Hover. Price, \$9.00.

The Cyphers Portable Brooding Hover

Provides a *low-cost*, convenient, practical way to brood little chicks indoors. Set it down anywhere indoors and you will have a safe and comfortable home for the little chicks. "Movable" at a moment's notice without even turning down the lamp flame. It is an all-metal, *self-regulating, self-ventilating, complete brooding device*, automatic and economical. Does not need a brooder case or box enclosure. Chicks are on the level of room floor all the time. (See illustration.) *Fully guaranteed*.

Cyphers Poultry Foods

Equally important with proper brooding is *correct* feeding. The "Cyphers Way" provides a *complete* line of balanced-ration, special-purpose poultry foods. Look up our "Poultry Food" Advertisement on another page.



Cyphers Adaptable Hover. Price, \$9.00.

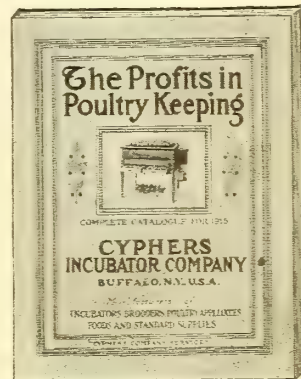
Cyphers "Free Service"

Whether you are a customer or not, you can *write* our "Service Department" for any information you may require in your poultry work or to *solve your poultry problems*. You will receive a prompt and helpful reply.

We want you to have our *free books and bulletins*—all well illustrated, practical and instructive—a *complete course in poultry raising*. Read our 1916 Year-Book for full information.

Send For Our 1916 Big Free Year-Book

We urge every reader to *write today* to our nearest office for a *free, post-paid copy* of this 172 page *Complete Illustrated Guide for Poultry Raisers*. A postal card will do. Read all about the "Cyphers Way" of making *big profits* with poultry—of building up an *independent, money-making poultry business*. Tells how you can pay for



your incubator by hatching and selling day-old chicks. The introductory "Open Letter," by Grant M. Curtis, President of Cyphers Company, is worth *many dollars* to every earnest, thrifty poultry keeper who will read and heed the practical advice it gives. **Write Today, Before You Forget It**

Cyphers Incubator Co.

Dept. 30

Factory and Home Office: Buffalo, N. Y.

Branch Stores and Warehouses:

New York, N. Y., 41 Barclay St.
Boston, Mass., 12-14 Canal St.
Chicago, Ill., 1421 W. 37th St.

Kansas City, Mo., 19th and Campbell Sts.
Dallas, Tex., 316-318 N. Preston St.
Oakland, Cal., 2127 Broadway.

JOHN G. POORMAN
TINLEY PARK, ILL. U.S.A.

POORMAN'S

200 EGG

STRAINS

Stock, Eggs and Baby Chicks

from profitable layers is your only guarantee for success in the poultry business.

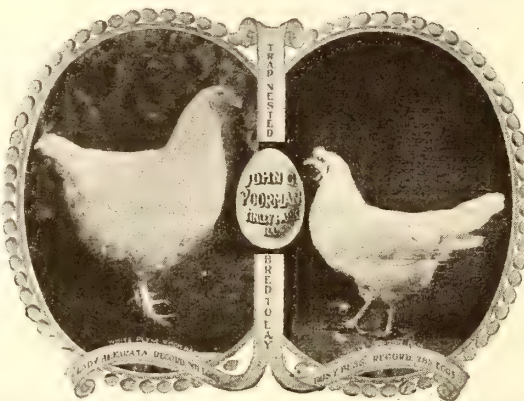
ISN'T it a serious matter when eggs are selling at 40c to 60c a dozen and your hens are not laying? Ask the man who has failed. Also ask him if he would recommend the breeder he bought his stock from.

You cannot be too careful in the selection of your foundation stock; the stock from which you will produce your future layers. **I breed for eggs** and can supply you with stock that will lay when the egg prices are high.

THAT MEANS YOUR SUCCESS

Eggs

My breeding pens are now mated, and I can usually make shipment of eggs promptly upon receipt of your order. I would, however, advise that your order be booked in advance. This will assure delivery when you desire them. Prices, 10c, 20c and 30c each.



LADY ALFARATA, Record 301 eggs

BUSY BESS, Record 285 eggs

Baby Chicks

I will commence hatching operations January 1. I am now booking orders for baby chicks for delivery any time thereafter, weather conditions permitting. Early orders simplify matters and assure mutual satisfaction. Instruct me to book your order now. Prices, 20c, 35c and 50c each.

Buy Your Foundation Stock Now

In all of my eight varieties, namely, White and Buff Orpingtons, White and Barred Rocks, Rose and Single Comb Reds, White Wyandottes and Single Comb White Leghorns, I can supply Breeding Stock, young or old, that will produce a future flock of the kind that has in the past given entire satisfaction to over 3,000 customers. I herewith present your opportunity to start right. My free instructive catalog has helped others and will undoubtedly help you. Write for your copy today.

JOHN G. POORMAN

Box 100

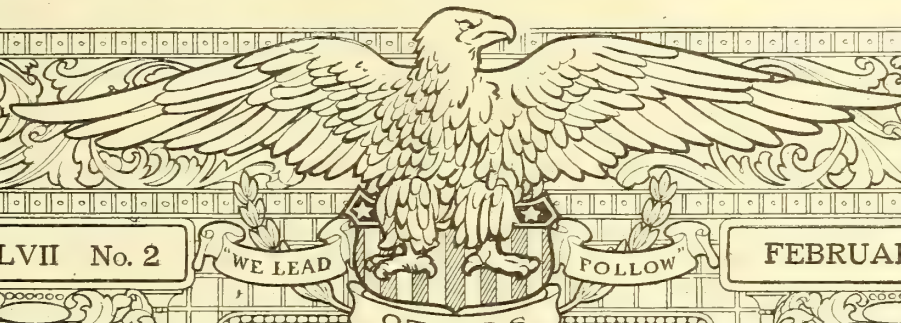
Tinley Park, Ill., U. S. A.

WHITE ORPINGTONS
BARRED PLYMOUTH ROCKS
R.C. RHODE ISLAND REDS
WHITE WYANDOTTES

TRAPNESTED
BRED-TO-LAY
POULTRY

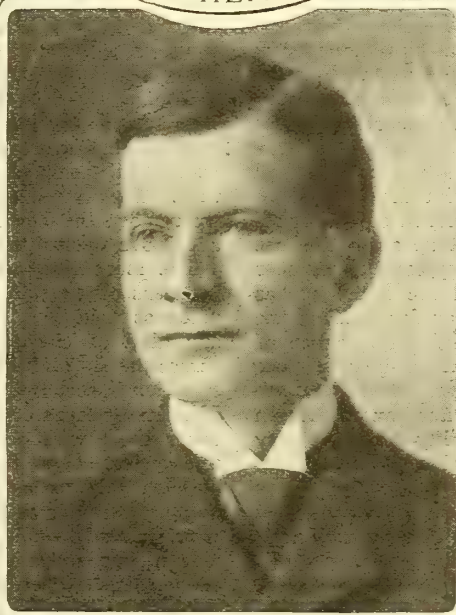
BUFF ORPINGTONS
WHITE PLYMOUTH ROCKS
S.C. RHODE ISLAND REDS
S.C. WHITE LEGHORNS

AMERICAN POULTRY JOURNAL



VOL. XLVII No. 2

FEBRUARY, 1916



VICTOR BRADLEY—PIONEER POULTRYMAN

VICTOR BRADLEY, of Bradley Bros., Lee, Mass., was born in his home town in 1868. He has been a farmer and breeder of fancy poultry for over thirty years. Since 1882 he has bred Barred Plymouth Rocks and has specialized in this variety for the past twenty-three years.

The Bradley Farm has been in the family for five generations and has been noted for bee culture and fancy Holstein dairy cattle for many years. The farm once paid as high as \$30 for a single bee for producing purposes and at one time imported 162 head of Holstein cattle direct from Holland. The poultry interests of this farm are better known in the name of Bradley Bros. The show records of Bradley Bros.

Barred Plymouth Rocks have been too well advertised to need mention here and it is sufficient to say that Bradley birds have been prominent in the winnings for 26 years in leading American shows.

Bradley Bros. claim the distinction of having bred and sold the highest priced Barred Plymouth Rock ever purchased for cash. The firm exports many fine fowls each season and has sent numbers to Japan, South Africa, Russia, England, Porto Rico, Jamaica and South America. Mr. Bradley is prominent in church and Masonic interests in his home town and is owner and manager of a 100 acre stock farm which has a quarry noted for its superior marble, which has been used in Government buildings in some of the largest cities of the United States.

Using Coal Burning Colony Brooders

Some Points on the Successful Management of Chicks in Large Flocks. *By Maurice H. Decker*



DURING THE PAST FOUR YEARS we have successfully used the coal burning colony stove brooders, which are capable of caring for large flocks of chicks and we believe they have firmly established their right to a place on every farm where considerable numbers of business chicks are reared each year. We have tried out three different styles of these brooders, have installed them in numerous sizes of buildings ranging from 8x8 ft. up to 16x20 ft., brooding chicks in flocks of 350 up to as many as 1,100 about a single stove, and have found them very economical in operative costs of both fuel and labor. Any poultryman can readily comprehend at once the difference in the amount of fuel and labor required to brood a dozen separate flocks of 50 chicks with kerosene lamp heaters and the same number about a single stove burning hard coal. In cold, wet seasons we have frequently burned $1\frac{1}{4}$ cent's worth of oil to a chick before our broods were old enough to do without artificial heat, while to date the most any of our coal brooded flocks have cost for fuel has been under $\frac{1}{2}$ cent each.

Another important advantage of the coal stove brooder is its adaptability to almost any size and style of building the poultryman possesses. This brooding equipment makes unnecessary large sums of money tied up in expensive brooder houses, which are usable but a few months of the year, a point that appeals very favorably to the tenant upon rented ground, the beginner making his start with day-old chicks, or the man who has not the capital to invest in costly brooding plants. The stove brooder can be set up ready for use or taken down to be stored away or replaced in another building in less than half an hour, and the house it has occupied kept in use straight thru the year for housing the pullets it has sheltered as chicks. We find this practice of brooding pullets in their future laying quarters insures more rapid development and earlier laying than when they are shifted first to colony, then permanent Winter houses. As an example of the convenience and adaptability of the colony brooder I offer a little of our own experience of last year. A customer for whom we were saving 400 day-old chicks delayed coming for them until they were three days old and then telephoned us that he could not take them at all. This put us in rather a hole, for every available brooder we had was full to the limit. The only thing we could do was to keep them in boxes around the kitchen stove until the problem of making room for them was solved. This was done, and it was finally decided that a brooder stove be ordered by telephone. Accordingly we phoned a dealer in a neighboring town we knew personally, who had a couple in stock and arranged for one to be expressed at once. In the meantime we cleaned out an 8x10 ft. colony building, cut the hole for the pipe, put in the litter and made all ready for the chicks. The stove came just five hours after we got the dealer on the 'phone, and was set up and a good fire going in twenty minutes more. We put the chicks about it at once and sat up the greater part of the night regulating and watching the fire, and after that they did fine, causing us very little trouble.

When thru with our stoves for brooding purposes we have used them with success to heat our work-shop and laundry and for sprouting oats for our fowls. This latter we accomplished by setting a stove up in a 12x12 ft. building with cement floor which is scrubbed clean and covered with an inch layer of soaked oats under the hover. A slow coal fire is maintained with little trouble and the grain sprinkled with warm water once a day. In this manner we frequently have produced a six-inch growth of sprouts in ten days' time.

By using the stove brooder in portable buildings the poultry raiser can escape the serious danger of soil contamination, a condition always to be reckoned with where fixed brooder houses and yards are used. We find it very advan-

tageous to be able to move our broods of chicks just where they will be best protected and have access to the most green food at the stage of growth it will do them the most good. During wet, dark days we find the chicks should be out away from all shade in order to get the much-needed sun-light which is usually a scarce article in early Spring, and later in the season they do best in the orchard where there is the necessary protection from the heat. Also there are about the farm many small left-overs and gleanings from the various crops that will help the young birds along and all this is easily taken advantage of when one uses the portable brooders.

Our experience has taught us that the most satisfactory building in which to install the colony brooder is one with a double board floor capable of being divided in two rooms of equal size, one to contain the heater and the other to be used for feeding and exercising the chicks. Such a building should range from 8x16 ft. to 12x24 ft. in size, anything larger or smaller being less satisfactory. To furnish this amount of room and still preserve the advantages of the portable brooder house we move two of our 8x8 ft. or 8x10 ft. colony houses up close together so their sides touch and cut two low wide doors in these adjacent sides for the chicks to use in passing from one to the other. All cracks between the corresponding doors and sides are closed tight with strips of roofing paper to conserve the heat and prevent any drafts. This combination of colony houses gives us the two separate compartments each accessible by a door in the front and can be moved separately and joined together in a very short time. Then when the chicks are old enough to be weaned, we remove the heater, place half the flock in each building and move them a short distance apart.

The most satisfactory floor upon which to brood chicks in flocks of any size that we have ever seen or heard of is made as follows: First we lay down a sub-floor of most any kind of cheap rough boards, placing them diagonally across the sill and joists which makes an unusually rigid construction especially for colony houses intended for moving. If knots or large cracks are found in these rough boards we cover them with scraps of roofing paper tacked upon the under side. Over them we lay either a heavy grade of tar building paper or cheap one-ply roofing, which can sometimes be purchased for as little as 60 cents per roll. This is lapped with two-inch seams, over which are nailed lath which provide nailing strips for the top floor of planed matched 1x6 yellow pine. When given a good coat of asphalt or creosote we have a lice-proof, wind-proof, cold and frost-proof floor suitable for any kind of poultry work. This floor may be raised upon blocks or stones and all sides left open below, which will eliminate all trouble from rats.

A double compartment brooder house is practically a necessity when the colony brooder stove is used. In cold weather the exercise room furnishes the chicks a sheltered place to be fed and a place to be confined when their sleeping room is being cleaner and aired. Even in very cold weather we believe baby chicks require a temperature lower than that of the brooding chamber in which to exercise and scratch; if they are to remain healthy, make rapid growth and acquire strong powers of resistance. As soon as they are properly trained to scamper back to the hover to warm up when chilled they should be encouraged to spend a considerable part of their time in the cooler exercise room, or even out of doors. We have given our colony brooder chicks outside runs as early as March 1st, when the earth was frozen and a light snow had to be scraped off the ground, with very good success, as the coal burning stove furnishes ample heat to quickly warm them up when a thawing out is necessary.

While as many as 1,500 chicks have been successfully brooded about a single stove we believe the average poultryman, and especially the beginner, will have better success with flocks of 400 to 600 chicks. We seldom put more than this latter number in one building, more frequently running

our hatches in flocks of 400 to 500. Even with the lesser number the operative costs per chick are very low. Last season, which was a record breaker for cold, wet weather, we gave some of our broods heat until they were nine weeks old and our stoves only consumed an average of 40 pounds of coal each seven days.

The beginner's main trouble in operating the coal burning brooder will be the difficulty in preventing the fire going out on warm days when little heat is required by the chicks. This trouble and the work of rebuilding the fire when evening approaches can be avoided by keeping up a good steady fire, no matter what the outside temperature may be, and cooling off the interior of the building by the opening of the doors and windows. The small volume of fire pot space in the brooder stove will not permit a hard coal fire to be throttled down by the regulator, for many hours at a time, without going out entirely. Vigorous shaking and dumping of the fire will also result in the extinguishing of a slow fire, so the safe plan is always to open the drafts wide and allow the fire to burn up vigorously for a few minutes before commencing these attentions. We also find that frequent shaking will result in the partially burned coal and ashes becoming so packed at the base of the fire that the draft is completely shut off, causing it to gradually die out. This can be remedied by using a straight piece of heavy wire to carefully pick open a few holes thru the ashes for the air to enter. This is done after each shaking of the grates. Never attempt to poke or stir up a hard coal fire to make it burn up faster, especially in the small brooder stoves, as this is the surest way to extinguish it. We keep a small box of short pieces of hard wood in the brooder house and, in case the fire does get too low to be saved, we clean out the ashes as quickly as possible and with this wood and a pint or so of kerosene can get "steam" up again in a few minutes. It does not pay to wait for a very slow hard coal fire to burn up if your chicks are getting cold. The best way is to dump it out and start another.

To obtain the proper draft the brooder stove should have at least ten feet of pipe extending straight up thru the roof of the building. Elbows always cut down its efficiency and a good stiff draft is necessary to enable the fire to climb up quickly when the stove is opened. To make a water tight joint about the pipe we used a galvanized iron chimney, procurable at any hardware store and which is a tapered piece of pipe with a flange soldered to it at the proper angle to fit the pitch of the roof. This is nailed over a hole cut in the roof and the edge seams calked with asphalt cement. The stove pipe from the stove goes up inside this chimney and that from above slips down over, making a perfectly weather proof joint. We use nothing but galvanized metal pipe and chimney, for the common black iron goods do not last long enough to warrant putting them up for longer than one season. When the pipe and stove are removed we cut a circular piece of heavy roofing fabric, slightly larger than the diameter of the chimney's top, and nail it to a foot length of 4x4. This is slipped down in the chimney from the top where its weight pulls the roofing down over the sharp edge of the metal, forming a wind and rain proof cap that will never blow off and can be removed in a second.

As hard coal forms the safest variety of fire, there is considerable less risk when the coal brooder is used than with kerosene and last year we found it an easy matter to have several small buildings, in which this type of heater was used, insured.

To ventilate the brooder compartment we use muslin covered windows in the front of the house which, supplemented by the automatic ventilation of the stove's draft, furnishes a constant supply of fresh pure air about the chicks' heads, an absolute necessity for health, good appetites and rapid growth. The stove brooder is the only type we have ever used which enables the fresh air "crank" to supply his broods with an abundance of oxygen without a waste of expensive fuel. We endeavor at all times to keep our windows as far open as possible and make up for any coldness by forcing the stove along.

Three days before our hatches are due we have the colony stove set up and burning. This gives us plenty of time to make sure it is working correctly and properly regulated, so when the chicks are out our main efforts may be devoted to

starting them off right in life. We use a litter of wheat straw cut up in inch lengths in a feed cutter, placing it about two inches deep about the stove, and eight to ten inches deep in the exercise room. When we have a good number of broods going and are pretty busy we lay cheap building, or even newspapers, on the floor under the litter, making sure, however, it is all covered so the chicks cannot get to it. This simplifies the operation of cleaning, as all we have to do is to roll up and remove the paper. Our chicks are always placed under the hover in the evening and confined there with a foot wide strip of quarter inch mesh galvanized wire cloth stood on edge. This strip is about 25 feet long and, by lapping the ends past each other, its diameter may be increased to give the chicks the run of the entire floor, or contracted sufficiently to hold them close under the hover. This keeps them under our complete control for the first few days, making it possible to allow them just the exact amount of liberty we wish them to have.

The next morning they are allowed to spread out about two feet on each side of the hover, where we look them carefully over and give them food and water. There are two of us for this task, and we spend the entire day educating the tiny little fellows in the ways of feed and water and in teaching them to scurry back close to the stove when cold. We have found that a few hours well spent in the first few days of a chick's life, in giving him proper training, will save weeks of worry and trouble, to say nothing of serious loss in the months to follow. We continue to keep them within the wire fence for the first three days, or even longer, if they display any reluctance about entering the hover when we think they should, giving them a little more liberty each morning. In case of trouble such as "piling up," all that is necessary is to draw the ends of the wire together and one person easily moves 500 chicks up under the hover. This is one of the principal secrets of success with raising chicks in large flocks. Keep them under constant control and do not allow them any more liberty or privileges than they are capable of using to advantage. You must particularly guard against your young chicks getting wet in cold weather. If they become even damp they are liable to run to the house and pile up in its corners. I still have a vivid memory of one day three years ago, when a flock of 800 four-weeks-old Barred Rock chicks were caught in a sudden shower and ran to the brooder house where, finding the fire out, they started to pile up three and four deep in the corners in an attempt to warm up. By quick work in scattering them with brooms my wife and I managed to save all but 68 from being smothered, and this incident thoroly taught me the necessity of closely watching weather conditions and of keeping up a good steady fire, when one has large flocks of young birds running out of doors.

When the chicks are thoroly "hover broke" they are fed in the exercise room, which has previously been prepared for deep litter feeding as follows: We first spread a layer of cut straw two inches deep over the floor, then scatter over it 100 pounds of chick food (a mixture of finely cracked grains), then repeat with more litter and feed until we have five layers of the one and 400 pounds of the other. The chicks are started scratching and digging by a few handfuls of grain thrown on the surface, and it is but a short time before all are busily earning their meals. We continue to feed by hand a gradually decreasing quantity of grain until we are sure every chick has had ample opportunity to learn this source of supply and how to reach it. The 400 pounds of chick food, supplemented by the dry mash and sprouted oats fed separately, will last a flock of 50 chicks about five weeks, when the litter is removed and another chick "shortcake" prepared. The advantage resulting from this practice of burying the chick food are many. First, it saves considerable of the time required for hand feeding and insures every healthy, thrifty chick getting his full share. It is the only method we have ever tried that will keep large flocks from acquiring the very bad habits of toe-pecking, feather-pulling and huddling in corners. The exercise makes husky, strong muscled fowls, capable of standing the heavy feeding necessary to develop profitable market chickens and heavy layers. Any individuals that show a reluctance to work for their food are removed from the flock to a separate pen and hand fed until large enough to market, for in all probability

they would mature into the drones found in most every flock.

There are, no doubt, many poultrymen who hold the opinion that good chickens can be raised successfully only in small flocks. This is doubtless correct when show stock is considered, but I believe the layers, broilers and roasters reared with the colony stoves will prove as profitable, and present as good an appearance, as those brooded in the regulation flocks of fifty. It is my opinion that too much attention has, in the past, been paid to developing striking and unique styles of brooders that depend upon and catch the poultryman's eye thru such features, which are generally nothing but talking points that make very readable advertising. All the practical chicken man needs is a simple device that will, with the least care and expense of fuel, keep his chicks comfortably warm, dry and abundantly supplied with pure air. The hard coal stove has been the standard for keeping humans surrounded by the proper temperature and

why it will not do the same for baby chicks I do not know. To be successful with your broods, obtain a good simple brooder and then spend the bulk of your time and money in providing them with pure wholesome food and cheerful surroundings. I know a man, who, years ago, raised each year very fine fowls in flocks of about 250 in a simple shed building heated by an ordinary kerosene wick heater. This sat in the middle of the floor, which was covered with sand upon which the chicks slept and scratched.

Since we have learned to properly handle chicks about the colony stove brooders, we are having very good success in raising our flocks of layers and market fowls. Our best record was made two years ago when we brought thru 376 chicks to weaning age out of a flock of 400. Last year, which was one of the hardest seasons for chicks we have ever experienced, we raised an average of 86% of all chicks brooded with this style of equipment.

Rearing Chickens with Hen or Brooder

Care and Management—Good Home-Made Brooder—Brood Coop and Colony Coop—Some Good Rations. *By Prince T. Woods, M. D.*



HOW TO REAR THE CHICKS RIGHT is one of the most important things to learn in the poultry business. No matter how well or carefully the breeding stock may be bred and managed, if the chicks are not properly hatched and grown they will not be first-class specimens. Poor management during the growing period will make a cull out of any chicken. There is much in line breeding, much in healthy breeding stock, but though you may have both of these important things in the fowls that produce the eggs, you will not get a good or satisfactory chicken unless you hatch it right and grow it right.

One reason experienced fanciers are so successful in growing splendid exhibition specimens, is because they hatch the chickens right and grow them right, and take particular pains to see that they get good wholesome food. Because of ignorance, carelessness, and bad management, we have seen worthless culls grown from precisely the same quality eggs that produced winners in the hands of other growers. There is abundant opportunity to prove this statement everywhere and during every season. You have only to use your eyes and look about you.

Chick rearing is comparatively simple and easy, if you know how, and because of this a good many growers—not all of them beginners either, for beginners are usually painstaking at first—get careless and slipshod in their methods. Successful chick rearing calls for the use of good sense, some observation and a lot of attention to little details. A well-hatched chick, out of a well incubated egg from healthy parent stock, is generally born to live. It is surprising what an amount of abuse they do stand and still make a good life of it.

Among the prime essentials for successful chick rearing are comfort for the chicks and wholesome food. If the chicks are kept comfortable they will be happy and thrive. They will not be comfortable if allowed to get chilled, if kept too warm and deprived of fresh air, if crowded, if allowed to become lousy, or if kept in unclean coops. They will not be comfortable and will not thrive if they are given unwholesome food. It is a lamentable fact that a large amount of poor grain is ground and sold as chick food, that the same buyer would refuse if he saw the whole grain. Then, too, cracked grains spoil quickly under some conditions, and a great deal of chick food is stale and partly spoiled before it reaches the buyer. Some is made from new corn or poor corn. New corn is much more liable to spoil than well cured, well aged corn. Only sound old corn should be used in chick foods. Spoiled or diseased corn is very dangerous to feed to chicks or fowls, and spoiled corn kills its millions of chicks every year. Manufacturers of

chick foods should be particularly careful to see that only good, sweet, sound old grain goes into the makeup of their foods. Pigeon growers learned a long time ago that spoiled or badly damaged grain is poisonous and will kill the squabs. Chicken growers are only just beginning to learn the importance of sound feeding grains. There are several good dependable, wholesome commercial chick foods, but any of them can spoil after they leave the manufacturer if not properly kept and handled or if kept too long. We hear a lot about "white diarrhoea" in chicks, but if our Experiment Stations would work harder to demonstrate the need and value of sound feeding grains, and to warn growers against spoiled and misbranded feeds, they would save more chickens and do more good for the chicken business than they are now accomplishing by so much scare talk about "white diarrhoea." In our experience we find that real "white diarrhoea" is a comparatively rare disease.

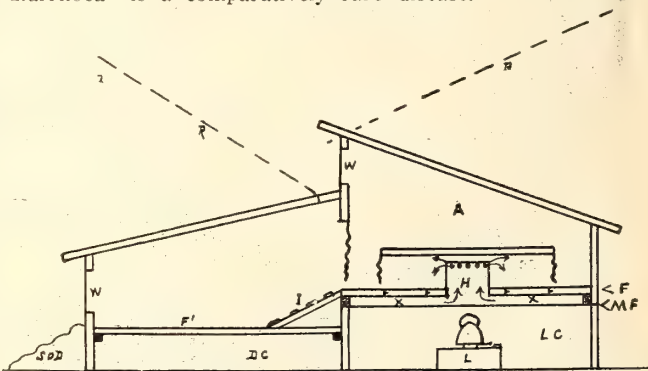


Fig. 1. Plan of a good home-made brooder of a type that has been in successful use for more than 20 years. A brooder that supplies fresh air and is easy and safe to use. "A" is the hover apartment, which is about 3x3 ft. "B" is the exercise room which is on a little lower level and is also about 3x3 ft. The over-all measurements of this brooder are: 6 ft. long by 3 ft. wide; 1 ft. 9 in. high in rear; 2 ft. 11 in. high at peak; 2 ft. 2 in. at rear of front roof; 1 ft. 6 in. high in front. A sod is used to make the outdoor incline for chicks to run in and out on. "L" is the lamp. "LC" is lamp chamber, the ceiling of which is a solid sheet of galvanized iron, see "MP". This lamp chamber is boxed in on all sides, making it a little less than 3x3 ft., so that all fumes are kept out of brooder apartments. "F" is matched board floor of hover apartment. "F'" is board floor of exercise room. "I" is a solid board incline, hinged at top, and fitted with cleats, for runway for chicks. It can be raised and hooked up to shut chicks in hover apartment at night. "H" is the heat flue, made from a large tomato can, open at lower end and with holes all around sides near the closed end at top. A hover board fitted with felt flaps, which may be either a circular or square hover, about 2 ft. across, is made to rest on top of heat flue or may be put on legs and placed so it will not quite touch flue. It should be about 5 in. above brooder floor. "XX" is a hot air space about 1½ in. high between wood floor "F" and the galvanized iron sheet "MP". Arrows indicate the direction taken by heated air which warms the hover. The air is drawn from outside brooder as shown in "Fig. 2." "W W" are glass windows. Dotted lines at "R R" show how front and back roof are raised. Roofs are fitted with hooks and strong hinges and are covered with waterproof roofing. The lamp is a common galvanized lamp with a "zenith" (or chimneyless) burner. A felt tab curtain is used between apartments as shown. Anyone handy with tools can make one of these brooders at a cost not to exceed \$5 for material. —P. T. W. (See "Rearing Chicks With Hen or Brooder.")



ROYAL—REDS

FIRST, SECOND, THIRD AND FOURTH PRIZE SINGLE COMB RHODE ISLAND RED PULLETS AT
COLISEUM SHOW CHICAGO DECEMBER 1913
F. E. HARRISON

BRED AND OWNED BY
MENOMINEE MICH.

Mr. Harrison has won 1st pullet at the Coliseum Chicago show each year for the past four years. The above cut represents 1st, 2d, 3d and 4th pullet in the strong class of the Chicago Coliseum, December, 1913-14. Mr. Harrison's winning of twenty-one 1st prizes at Chicago and best display four times in succession is a world's record and certainly bespeaks of the great quality in his Royal Red S. C. Rhode Island Reds.
—F. E. Harrison, Box 30, Menominee, Michigan.

We use incubators and hens for hatching. We also buy hatching eggs and day-old chicks, and we send eggs to a hatchery to be incubated and the chicks shipped back to us. In another article we have made suggestions concerning operation of incubators. An experienced incubator operator can turn out chicks from good eggs that appear in every way to be equal to hen-hatched chicks. You can get poor incubation and poor hatches with both hens and incubators. Buying hatching eggs is quite satisfactory if you deal with a reliable breeder and remember that you are buying his chances in those eggs and that hatching is always largely a matter of chance. For a good many years we have been buying day-old chicks, or buying chicks from our own eggs, from a hatchery that is seven hours away by express. For the past five seasons we have bought from several hundred to several thousand day-old chicks each season and we like the results so well that we expect to keep on doing it. We bought day-old chicks 21 years ago from an incubator

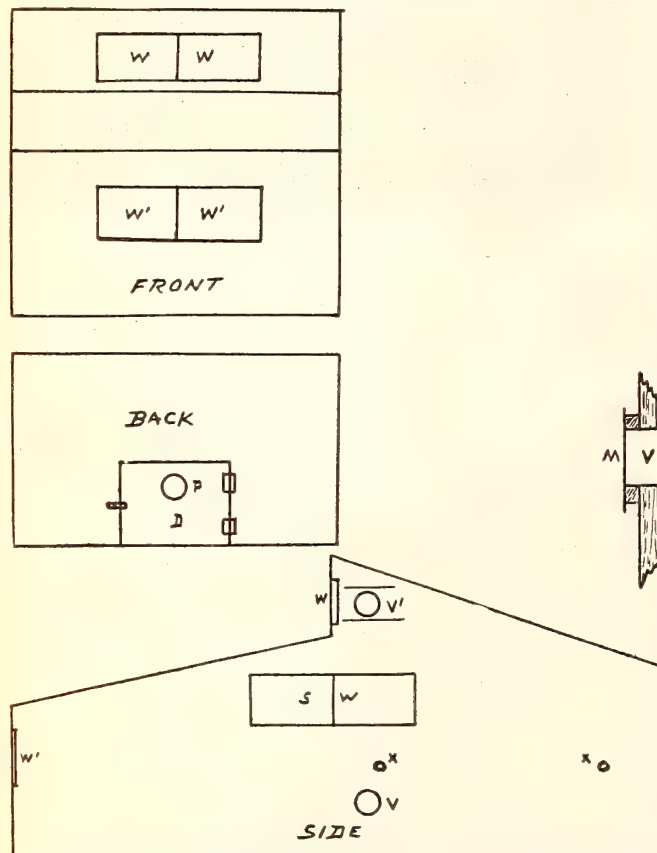


Fig. 2. Diagrams showing special detail of the home-made brooder shown in "Fig. 1." Side view shows position of side window "S W" made of two oblong pieces of glass, each about 6x9 in. These are fitted in a slide on outside of brooder so that the two pieces can be drawn apart to give an opening of desired size for fresh air. On inside of brooder tack common wire fly netting over opening. "V" is a 3 in. ventilating hole which should have a small galvanized iron slide to cover it. "X X" between galvanized iron sheet and wood floor and are to supply fresh air to heating part of brooder. The holes are in one side of brooder only. "W" is upper window made same as side window and with a screen back of it. "W'" is lower front window of two 6x9 in. pieces of glass fitted to slide in cleats, has no wire back of it and is used also as a chick door. "V" is a 3 in. vent for lamp chamber. Detail of this vent is shown above, "V" the 3 in. hole in brooder side. "M" a piece of metal on cleats covering hole inside lamp chamber, but open at sides between the cleats. It serves to break direct drafts. In Front view, position of windows are shown. In Back view the lamp door "D" is shown. "P" is a peep hole covered with mica and used for viewing the lamp flame.—P. T. W. (See "Rearing Chicks With Hen or Brooder.")

operator who lived 48 hours' express journey away from us and we had fine luck with them, and almost every year since then, that we have reared chickens, we have bought some chicks day-old from various distances from a few hours to three days' journey from us.

We have heard a lot of nonsense talked about the cruelty of shipping day-old chicks. We have never seen any cruelty, unless the fact that once in a great while the express company smothered a few chicks can be considered cruelty. Well packed day-old chicks ride very comfortably and they are much better off for being kept in the dark box, without food

for 48 to 72 hours. It seems to help rather than hurt them. Frequently day-old chicks shipped away by express will thrive better than those from the same lot reared on the home plant; we have noted this on several occasions. Certainly no cruelty

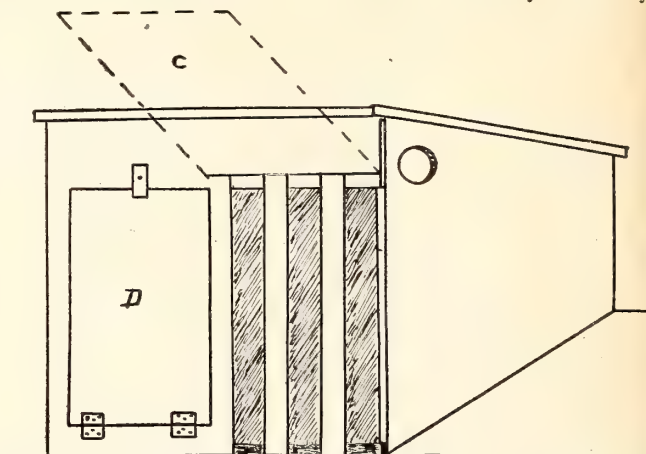


Fig. 3. A convenient brood coop for hen and chicks. If an elbow of two 14 in. strips of board 4 in. high is used in one corner on floor to make a nest, the coop can be used for sitters. Floor is of wood. Roof is a hinged lid of wood covered with waterproof roofing. Dimensions are 2½x2½ ft. About 2½ ft. high in front and 20 in. high in rear. The slats in front are 3 in. apart. The ventilating hole in side is 3 in. in diameter and is covered with fine wire netting. "D" is a solid board door, hinged at the bottom and held in place by a button on top. It will be found much more convenient to have this door so hinged at bottom as it gives free access to chicks and forms a runway when hen and chicks are freed. "C" is a cotton screen on a wood frame and made to hinge at top and swing up, held in place by string or chain. In ordinary use, hen is confined and chicks allowed to run.—P. T. W. (See "Rearing Chicks With Hen or Brooder.")

here. But we can appreciate that there are cases where it is cruel to allow some people to have adult fowls, day-old chicks, or even hatching eggs; for they manage, any or all, so badly that the poor things don't have a chance; but we do not see what is to be done in such cases. About all that can be done is to try to educate people to take better care of eggs, chicks and fowls.

Start with sound, healthy, vigorous breeding stock, or buy at a fair valuation good hatching eggs or day-old chicks and insist on having them out of healthy well-bred stock. The rest is "up to you," whether you get good results or poor results depends largely upon the amount of thought and intelligent effort you put into the work. It will not do to give one flock or brood good care and cleanly management and then let the rest "slide." Each and every flock or brood must have good care and attention to all necessary details. Whatever you neglect, you pay for in the end. Many a beginner, while his interest is hot, works well and does well

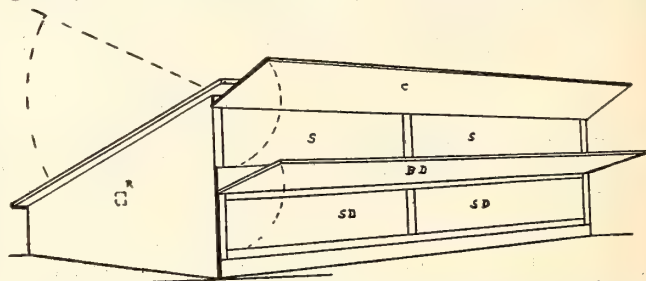


Fig. 4. An All-Season Colony Coop. Hens can be set in it and chicks kept in it until full grown. A fine practical coop modified from 100 similar coops used by D. W. Young. It is about 3 ft. deep by 6 ft. long. A little over 3 ft. high in front (the thickness of roof) and about 2½ ft. high in rear. Roof is of matched boards covered with waterproof roofing and hinged at top to open up as shown by dotted lines. "R" shows the position of 2x2 in. single roost which is placed in middle of coop about 14 in. above floor. It rests in cleats and is not used until birds are of roosting age. "S S" is open front covered with fine wire netting. "C" is a cotton screen on wood frame, hinged at top and made to swing up as shown and fastened at any height desired by a chain in middle. "B D" is a matched board door, hinged at top and made to swing up as shown; also fastened by chain. "S D" is a screen door of fine screen a trifle narrower than the board door and also hinged at top to swing up and out in same manner. Also fastened by chain. All doors are about 14 in. high by length of coop. Board door and cotton screen can be made to serve like an awning to protect inside of coop. When bottom screen door is opened it gives an opening nearly 14 in. high by entire width of coop so that birds can run in and out without injury from crowding. If desired to keep feathers and tails in best condition, one roost is enough. If used for growing market chicks, two roosts can be planned for. It is a good coop and not expensive to build.—P. T. W. (See "Rearing Chicks With Hen or Brooder.")

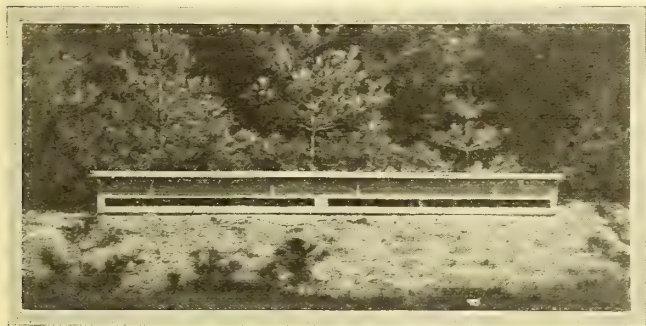
while things are new and clean.' He thinks he has "learned the game" and that it is "easy" and, of his "know it all" foolishness, carelessness is born and he gets a discouraging bump and costly experience. You can spend a lifetime with poultry and still find worth-while things to learn every day—you will also think you have learned some things only to find that you have to unlearn them later. When you cannot learn something new and worth while every day, then you are either dead or losing your mental grip.

HATCHING WITH HENS.

While a good incubator properly operated will turn out good chicks, no one has yet improved upon a good hen for hatching chickens. Some hens incubate poorly and are poor mothers; some incubate well but do not rear chicks well. When you get a hen that proves a good all around mother, she is well worth keeping for a number of years. We have used them when five, six and eight years old, and they knew their business and made a success of it.

Although it is wise for very early hatches, to set hens indoors, we much prefer outdoor hatching as soon as the below zero weather is over with. It does not seem to matter much whether you set a hen in the attic, a shed, the barn loft or in a straw stack—a good mother generally gets good results. Mr. Bell will testify that, when he was on our place last Spring, he saw 3 chicks that came from 30 eggs, hatched under two hens in our barn loft during April. We generally use a long bank of nests for outdoor hatching, ten nests built in a row and closed by wire net doors; bottoms of nests made of one inch mesh wire netting and bedded with pine needles. (See illustration.)

However, a brood coop, like Fig. 3, with a detachable nest

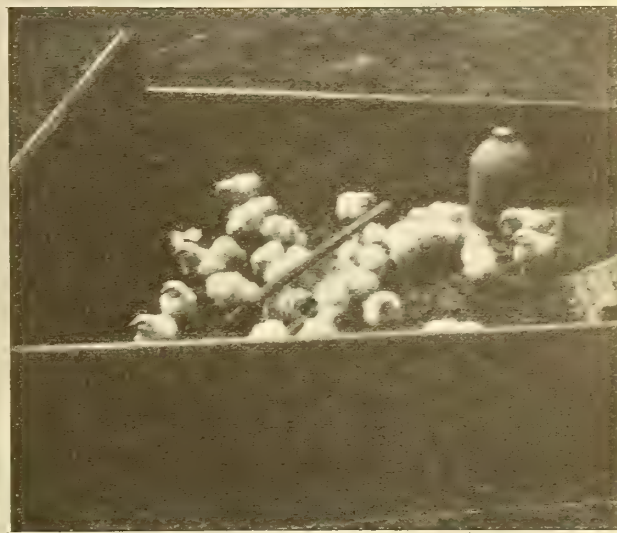


A bank of ten nests as used for setting hens out of doors by Dr. Woods. (See "Rearing Chicks With Hen or Brooder.")

built in one corner; or a colony coop, like Fig. 4, with two or more nests, makes a good place to set a hen or hens. We usually set two, four, eight or ten hens at the same time. This permits testing out the eggs and keeping only fertile eggs under the sitters—also it permits doubling up the broods of chicks and resetting some hens. We also, frequently, incubate eggs in an incubator for about two weeks (sometimes several lots, all dated as set) and then give the fertile ones to hens to hatch. This plan works well, especially early in season when broodies are scarce.

Always have the nest clean. If not made on the ground, put a little earth in the bottom of nest. On this use pine needles, soft hay, chaff or shavings. Don't dish the nest too much or make it too soft—if you do the hen will break more eggs. If eggs get broken, clean up others with warm water and put in new nesting material. Tobacco stems and chaff make good nests. Don't use straw, as it is liable to harbor mites. Dust the broody hen well with good fresh Persian insect powder the first night you find her on the nest, and use a tiny bit of blue mercurial ointment on the skin above and below her vent. Don't move her until you are sure she intends to stick to the nest. Then move her at night and let her have china nest eggs to sit on for a few days, until you know she will attend to business. Dust her with insect powder once each week. Just after the chicks are hatched and dry, put a very little of the blue ointment above and below her vent, under each wing close to body and on back of her head near base of comb. Use very little of the ointment as it is poisonous. Provide a good long run for the

setter to use when she comes off the nest, the further she runs and the more she jumps about, the better will she keep in condition. Let her off the nest at a regular hour once



Board shelter as used for first run of either hen or brooder chicks.—P. T. W. (See "Rearing Chicks With Hen or Brooder.")

each day. Provide her with corn, wheat, shells, grit and charcoal, as well as clean drinking water. See that there is a good dusting place where she can use it. Do not let her stay off the nest too long, but try to have her get exercise enough to have a good full evacuation of the bowels and be sure that she gets enough to eat. At hatching time, don't disturb her, but see that chicks do not fall out of nest and get chilled.

REARING WITH HENS.

When rearing with hens we like to keep the hen confined to the coop and permit the chicks to run free. Usually they get out on the ground as soon as they are ready to go. We do not feed them until they are hungry enough to cry for food. They get their first food and drink when from 36 to 72 hours old. This is usually rolled oats and bread or cracker crumbs rubbed up crumbly with hard boiled egg. They get this once a day for ten days. We feed them three times a day, the other feedings being home-ground chick food. The chick food is fed, after the first meal, almost just out of reach of the hen so she cannot waste it. She gets some whole corn and whole wheat for herself. Food is fed on a board or on a metal dish. We don't like to throw the food on the ground. For greens they get short sprouted oats until there is grass. The coops are kept clean, usually littered with cut



An early spring view of brooders and brood coops on range at "The Anchorage Farm."—P. T. W. (See "Rearing Chicks With Hen or Brooder.")

clover, mow chaff or alfalfa. The chicks run to the weather but have a board run at first near coop, with a shelter to keep out heavy rains.

REARING WITH BROODERS.

We like an outdoor brooder similar in pattern to that shown in the plan given in Fig. 1 and Fig. 2. From the dimensions given under the illustration any good "wood butcher" ought to be able to construct a good brooder. You can buy similar brooders ready-made, but they will cost you close to three times the price of the home-made machine. We start up the brooder before the chicks are expected, to be sure that it is properly warmed up and running right. We try to have it hold temperature about 95 to 100 degrees under the hover. After chicks are in, we forget about the thermometer and run it according to the comfort of the chicks—keep it warm enough so that they warm up quickly and don't hang around under the hover. At night it ought to be warm enough for them to sit all around edge of hover with heads peeping out from under the felts.

When we start the brooder we sand the floor of the hover apartment and put in a litter of cut clover, cut alfalfa or mow chaff. The brooder is clean at the start and kept clean. A



Metal brood coop with pine bough for shade. A Dark Cornish mother with a brood of 12 White Rock chicks at "The Anchorage Farm."—P. T. W. (See "Rearing Chicks With Hen or Brooder.")

little sand and litter is put on floor of exercise room. A strip of clean felt is wrapped around the heat flue below the holes, to protect the chicks from the hot metal. We use a long shallow metal feeding dish and in it put the same food we use for hen chicks. We also put in a galvanized drinking fountain with clean water. A felt tab at front of hover is pinned up to make it easy to get in and out. The inclined runway "I" is hooked up at first to keep chicks shut in hover apartment. We put the chicks in brooder in the afternoon about an hour before dark. This gives them just time to get their first meal and go to bed. We tuck them all under the hover once or twice and see that all are under after dark and the felt tab lowered. The next day they get three feedings and are tucked under the hover several times to get them used to it. If the day is sunny we open up the brooder and take out the hover for a few minutes' airing at noon feeding. If the chicks learn quickly they are usually ready to have a little run in the exercise room the following day. We don't rush them. Some broods learn more quickly than others and you must be guided by your brood. Keep them comfortable and happy. The first few times the chicks are only allowed in the exercise room for a few minutes and are then gently shoed up the incline into the hover apartment. When working with the chicks, until they get used to going in and out,

we keep a felt tab on partition between apartments and on hover pinned up to facilitate going in and out. Be patient with the chicks and don't be rough. If they don't take to the food quickly, tap the dish with your finger and hold up bits of food for them. They will soon get busy. We make a short board run outside the brooder and a sod incline for chicks to run on, and repeat the same lesson out of doors that we worked in the exercise room. They learn quickly if they are good chicks and if the operator has sense and patience.

We use these brooders out of doors from late February on and have fine luck with the chicks. Always select a fairly sheltered location, if possible. See that the brooder is level and bank it a little on all sides with sand or earth to keep the wind from blowing under it. For cold weather operation the "zenith" burner should be large size, having an inch wick. In warm weather a smaller size burner can be used. Feed the chicks three times daily just as you do the hen brooder flocks and give them greens.

CHICK RATIONS.

For a home-made chick food we like the following ground in a power mill or in an ordinary \$5 hand mill:

Sound old corn, yellow or white, flint preferred.....	10 lbs.
Sound Duram or macaroni wheat.....	10 lbs.
Heavy clipped white oats, hulls and all.....	5 lbs.
Clean sound heavy barley.....	5 lbs.

Grind all together into a coarse meal and add 5 pounds rolled oats and a little fine granulated charcoal and fine shells.

For a mash to be kept before the chicks, sift out the fine meal from above and mix with an equal part by measure of bran, and when chicks are a week old add about 5% of either fine fresh fish scraps or best quality fine beef scraps.

As stated, during the first ten days, cracker and bread crumbs rubbed up with hard boiled egg are fed once daily.

Raw potatoes, cut in chunks, and sprouted oats, about half an inch sprout, fed rootlets and all in a pan for chicks to scratch over. Give fresh daily. Remove all stale potatoes or oats.

After ten days old gradually work on to coarser ground chick food. Keep mash before them. Give scalded fresh fish when available. Increase size of outdoor run and give grass run if possible. Feed three times a day and feed well, keep them busy; keep coops and brooders clean; change litter often.

When three weeks to a month old the chicks will take practically the same ration as layers. Wean the chicks when well feathered, usually at from seven to eight weeks. From now on they will do best in colony coops on good grass range and should get three full feedings a day.

If kept clean and comfortable and well fed on wholesome food, they are certain to do well. Watch your chicks and learn to know their wants and what their calls mean. You will find that they have an easily understood language and that it pays you to be come familiar with it.

Mrs. Ruth E. Brown, of Baxter, Kans., is sure a woman of keen foresight. Last summer her grain fields were infested with great armies of grasshoppers that threatened to destroy the grain crop. Mrs. Brown is a breeder of White Orpingtons and she needed the grain for winter feed. She had a hunch. With the assistance of the hired help on the farm, she inaugurated a grasshopper drive and secured five bushels of the 'hoppers. In a week she had 100 bushels of fine, grain-fed grasshoppers put away in her barn loft to dry, to be fed to her White Orpingtons during the coming winter.

* * *

Rudolph Heim, president of the Buchanan Poultry Association, New Jersey, has found a use for sparrows. He chatches them in large cages, baited with grain, getting as high as twenty and thirty daily. After killing them he pulls out the large wing and tail feathers and then runs them thru a sausage grinding machine, feathers and all, mixing in some bran to absorb the blood. This combination of meat, blood, feathers and bran he feeds to his chickens and they greatly relish the mixture. Next!

Barred Plym. Rocks and Their Breeding

CHAPTER II. The Different Types of Barring in the Barred Plymouth Rocks, the Variations of the Contrasting Colors and Their Values in the Breeding Yard.

By C. H. Latham, Lancaster, Mass.



THE TWO POTENT COLORS of the plumage of the Barred Plymouth Rocks are black and white. Not 100% black in the dark bars, or 100% of white in the light bars, but a mixture of the two colors in each bar. That there is some other debasing color that has always been making trouble in perfecting our plumage color, there is no shadow of doubt, but to give this color its real name is a hard question to answer. It shows mostly in the way it destroys the purity of the two potent colors, causing many birds to have a decided brownish tinge to the plumage

soon after the feathers are grown, and this increases as the feathers get old and worn. It shows in a greater degree in birds having weak contrasting colors. The more pure and intense we get the two contrasting colors the less we see of the debasing color, probably from the fact that in these more carefully bred birds, there is a smaller per cent of the debasing color.

In the earlier Plymouth Rocks the bars were quite wide, and of weak contrasting colors, and the per cent of admixture of white in the dark bars, and black in the light bars, was much greater than in the birds of a later period.

These weak contrasting colors blended and softened one into the other, causing the birds to have a blueish tinge to the color of the plumage, as they were really two shades of practically the same color. They were spoken of as "Blue Barred" Plymouth Rocks, and even today we see birds of this type. This type of color faded very rapidly, and the birds in the late Summer months became very brown and dull looking. In many flocks of recent years, much more attention has been given to perfecting the type of barring, and a great improvement in color has been made. We still see in some specimens, and in some cases in whole flocks, these weak contrasting colors, and the dull brownish tinge after the feathers become old is very noticeable. Perhaps it is safe to say that over 50% of the Barred Plymouth Rocks of today are weak in this respect.

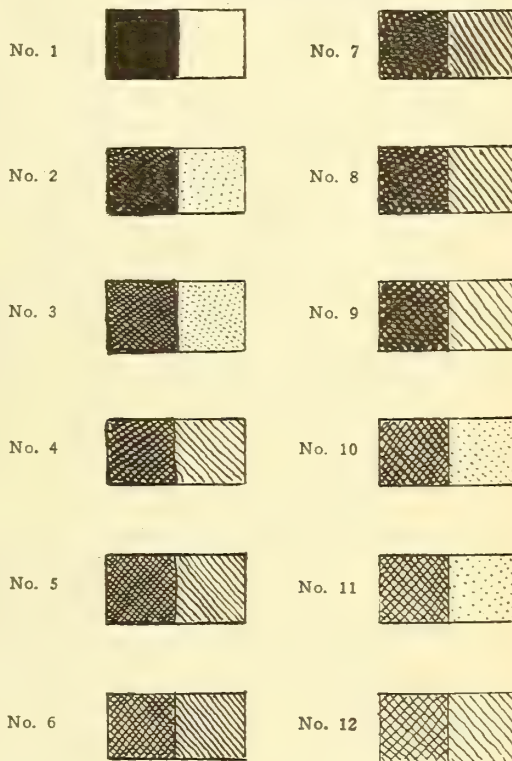
In breeding Barred Plymouth Rocks for present day requirements, a great deal of attention should be paid to the quality of the contrasting colors, and the value of the colors determined by the *different widths of the bars*, and how this affects the progeny of the mating. On this, in a large measure, hinges success or failure in breeding.

The Standard requirements of barring—and barring properly bred makes up the color of the plumage—are that the dark and light bars shall be of correspondingly equal width, and until such changes are made in the Standard to better the color description, we must keep this in view. Also the Standard requires that the two sexes shall be alike in color in exhibition specimens.

In the study of mating for color, let us take some things into very careful consideration. Nature demands that the male bird shall be of lighter color, or having a lighter appearance in color than his dam or sisters. This owing to the light bars of his plumage being wider than the dark bars, if his dam is a bird having the dark and light bars of equal width. If the male has bars of equal width, his dam will be found to have the dark bars of more width than her light bars. For this reason the "double mating" method of breeding is required in order to produce birds of both sexes that can be alike in color. That is, a special mating must be made to produce males of exhibition color, and another special mating made to produce females of exhibition color. A male bird may be identical in color as his dam, that is, the dark bars may be of exactly the same shade of color, the same value, and the same in the light bars, but owing to the difference in the widths of barring in the two birds, he will have a lighter

appearance. A male bird having weak contrasting colors, even tho the dark and light bars are of equal width, or having the darker bars the wider of the two, he is not a valuable bird for a breeder. See chart of color contrasts for examples of weak contrasts numbers 3-12.

Breeding fine colored Barred Plymouth Rocks is largely a matter of mixing the two colors black and white, and the combination of the two colors as regards the different widths of the contrasting bars. To illustrate: the attention of the reader is called to the chart of color contrasts which gives different shades of combinations of black and white in contrasts. No. 1 being the extreme, a contrast of positive black with pure white. No. 2 being a very slight departure from



pure black and white, by having a very small percent of each color in its contrasting color, so that the dark color stops short of being a positive black, and the light color a very delicate gray, very nearly approaching pure white. As the writer interprets the meaning of the Standard description, this is the ideal color of the plumage of the Barred Plymouth Rocks. Other numbers on the chart showing weaker contrasts, caused by a larger percent of opposite color mixture in one or both of the contrasting colors. A bird with plumage closely like No. 2 will be a bright snappy clean barred bird, that with other things being of equal merit, would be most attractive, both when in new feather, and during the whole season till new feathers appear in the annual moult. The colors are strong, pure and intense, and do not fade like the weaker contrasting colors.

The weaker the contrasting colors, the less valuable as a rule is the bird for a breeder. Weak contrasting colors combined with a wide, dark bar seem to be the most undesirable birds to use in the breeding yard, and should never be put together in a mating. In most any flock we will find specimens of these different types as represented on the chart. Much of it is owing to poor selection of breeding birds, and some of it is unavoidable. In years to come when more attention is paid to the study of color, a much more

uniform type of color will prevail thruout the country. A good deal of the differences in types of colors and barring is owing to the different ways in which many of us look at it, we do not interpret the Standard alike. If a bird is too dark in color, it is not because the dark bar is too near a positive black, but because the dark bar is too wide for its contrasting light bar, or contrasts with a light bar that is too dull from having too great an admixture of black in its make-up. And if a bird is too light in color it is apt to be just the opposite in combinations. If we should follow a set rule in breeding, using only those birds that show very high merit, according to Standard descriptions, we would confine ourselves to a very restricted path, and would discard many birds as useless that were really strong breeders. The breeding of fine poultry is an intricate work, requiring most careful study and painstaking efforts, that are crowned with some successes and fraught with many failures. But failures are only stepping stones to success, and the breeder must get these failures under his feet and keep reaching for higher things.

One thing the breeder should bear in mind, Nature is very coy in passing out phenomenal birds, they usually come in "clusters of one," and no matter how choice a mating may be, there will be a greater or less per cent of birds that will be ordinary specimens compared to their parents, and then there will be some that should be considered as culls. We will suppose that a breeder has a pair of very choice birds mated to produce exhibition females, a "pullet-mating" so-called. Among the progeny of this mating he may have a per cent of birds that are equally as good as the parent birds, and possibly a bird or two that are still better. The larger part of the progeny is likely to be birds that in appearances fall a good deal short of being birds of equal merit of their parents, still many of them may be excellent breeding birds if properly mated. The inferior in appearances, they are of the very same blood and breeding as the best specimens of the progeny, as closely so as anything we can get in breeding. When we stop to think that these brothers and sisters of the progeny of a pair of birds have four grandparents, eight great-grandparents, and sixteen great-great-grandparents, and so on, we can see that the admixture of the characteristics of many sires and dams is in their make-up, and the potent quality of some sire or dam shows itself in some offspring more than it does in some others. If we had the characteristics of only the one sire and dam to work with, it might be possible to breed a flock of birds as alike as peas in a pod. Among the progeny of this mating there may be some specimens quite dark in color, in the females showing a dark bar a good deal wider than the light bar, and sometimes closely approaching a cockerel-bred female in color. Tho far from an exhibition bird in color, she is a valuable bird for a breeder. This holds good in specimens that come quite light in color, having a light bar wider than the dark bar, but having a clean intense color in the dark bars. With these females having the wide dark bars, mate to them a male having narrow dark bars, that contrast with light bars of a good deal more width, a bird that the light portion of his color predominates. His barring should be as straight across the feather as possible, clean cut, that is with each color sharply defined. Such birds, if well bred, have good, bright wing and tail barring, often much needed in breeding to a strong colored female.

If the females are really quite dark in color, a male that even shows the dark bars a bit weak in color, if they are sharply defined and are quite narrow, will give fine results. This is an extreme mating, but one that many times produces very fine birds. We will take the other extreme, the light clean-cut, sharply defined barring of the lighter colored females, that have their light bars quite a good deal wider than their dark bars. These birds usually have good barring in wings and tails, and as a rule they have well-defined underbarring. Select for a mate a male that is somewhat darker than is usually used for a breeder of exhibition females, not of course as dark as an exhibition male, but approaching the other extreme of color from what the female have. This of course is another extreme mating, but one that should give results of practically the same as the mating of the darker females mated with the lighter male. In choosing the darker male, use great care in select-

ing one that is darker in color, from having his dark bars clean and intense in color, contrasting with a clean delicate gray light bar, with the dark and light bars closely approaching equal widths. This same method of course holds good in using the light or dark males of a mating, they are valuable breeders if properly mated. A good deal of study should be put into what constitutes a dark or a light bird. A dark bird of either sex that is dark because it has a clear intense dark bar, this bar being as wide or wider than its contrasting light bar, showing clear bright contrasts, having the light bar clean and closely approaching white in color, is a bird that will produce fine stock if correctly mated. But if he is dark from having the light bars a dull gray showing weak contrasts of color, he is not of much value as a breeder. And in the light birds of either sex, if it is light in color because the dark bar is weak, and this bar is quite wide, even of same width as the light bar, the light bar is liable to be a dull gray, and it is a bird of very little value as a breeder of high-class birds.

There can be made a number of different matings between these two extreme types till they meet on the middle ground and one has an ideal colored exhibition female mated to a medium colored pullet-bred male such as is usually considered a Standard type of pullet-bred male. Some will say why go to these extremes in mating? Why not follow a middle course? Somehow Nature does not seem to produce everything in the way we think she should. It is a supreme effort to now and then give us a phenomenal bird, one far in advance of the years' production. And often these phenomenal birds fall short by a long way in producing birds of high merit, they may produce only medium quality. And the ideal bird for a mating, such as we all have been looking for and hope to see in our flock, never shows up, we have to content ourselves with some bird that in many ways falls short of our ideal. A male bird that is of only good average quality, pretty good in all respects, as regards shape, color, and barring, will only produce a flock of birds of good average quality, he will not produce birds of a high type. But some bird that shows great merit in some respects, having in a measure some of the good things we have been hoping to have, has in his make-up fine breeding qualities. But almost invariably he will possess some glaring defect, of such a nature that one fears to use him as a breeder. But here is where Nature has marked high, has given us some of the qualities desired, tho she has thrown in some base metal along with the pure gold. It is up to the breeder to refine out that base metal and hold fast to the gold.

Many breeding males of this kind would be discarded as disqualified if the Standard were applied to them, because of one or more of these glaring defects.

A disqualified bird is supposed to be worthless, a cull, but *any bird that can produce high-class birds should not be considered a disqualified bird.*

The writer is strongly opposed to any defect being considered a disqualification, unless it amounts to an actual deformity. Because a bird has a bit of down between the toes, a stub feather on his shank, or a fleck of white in his lobes, little spike in his comb that does not stand plumb and in line with the others, or some other thing of this nature, he is thrown out as valueless. All wrong, and silly nonsense! We should consider our breeding birds as so many tools to work with, and *it is the cutting edge of a tool that counts.*

Edward Brown (England) says: "The use of houses with fronts made of wire netting, thus affording sufficient ventilation, is to be recommended, by reason of better laying, of greater vigor, of enhanced fertility and hatchability of the eggs laid, and of stronger chickens from these eggs."

* * *

If you want to have eggs next October and November when the prices are high, be sure to begin hatching in February and March. It takes early hatched pullets to yield Fall eggs worth five cents each.

* * *

The value of the poultry and eggs shipped into the Boston market in one year is estimated at \$12,216,556.20, and it is estimated that the value of poultry products shipped into the New York, Chicago, Boston and Philadelphia markets annually is upward of \$60,000,000.

Comment on Reports of A.P.A. Convention

The Poultry Business Is More Free from Dishonest Dealing and Misleading Advertising than Many Other Lines of Business. The Key to Bettering the Situation Is Not That of Censoring Advertising and Eliminating Competitors, but That of Educating the Public to Know and Appreciate Values and Demonstrating to Advertisers that Truth in Advertising is the Best Policy. *By Helen T. Woods*



OW THAT THE PROCEEDINGS of the fortieth annual convention of the American Poultry Association at San Francisco have reached the reading public through reports given in the various poultry magazines, those of us who were unable to attend, may well ask if at least a part of the matters considered and resolutions adopted at this convention, were intended as "jokes" or solemn propositions.

That this Association of six or more thousand members, with an object of furthering the interests of the poultry industry, should appropriate \$500 and appoint a committee for the purpose of investigating "hucksters" and "huckstering" among poultrymen in these United States is nothing short of ridiculous. I should like to ask the gentlemen who fathered this measure, how, and for what purpose is such work to be attempted? In a work of such magnitude, involving a warlike attack on business concerns representing hundreds of thousands of dollars in capital, located thruout the whole country, of what avail is the appropriation of the paltry sum of \$500? Why not donate it to the private expense account of the needy committee or give it to the heathen? The manufacturers of high-powered motor cars thruout the country might as well attempt to put the little "three-fifty" roadster out of business by means of automobile association legislation.

In common usage of the term, the "huckster" is a man who raises or deals in several varieties and who buys stock to sell again, generally buying cheap and selling at low prices. There are fanciers who have made use of huckster methods to help them to their present day success. It is wise to speak well of the bridge that carries one safely over the stream.

Huckstering can be and generally is a legitimate business. Undoubtedly there are frauds here, as there are in all branches of the business. But is it not a fact that customers really complain less about dealings with well-known huckster plants than they do of dealings with fanciers?

In appointing a committee to undertake a work which calls for generous breadth of reasoning, free from bias, it is unfortunate, that this huckstering investigation committee should have been made up of three members who have publicly and repeatedly expressed themselves so unqualifiedly against hucksters and huckstering.

How does the American Poultry Association propose to put a stop to a legitimate business? For the selling of fowls or day-old chicks of the various breeds, from big hatcheries or by hucksters thruout the country, cannot be classed as other than legitimate. That chicks so sold do not develop into Madison Square Garden winners, or because, in some instances, they show the result of the crossing of strains back of them, cannot make their sale as belonging to certain varieties a dishonest transaction.

Frank L. Platt, in December *Reliable Poultry Journal*, in an article, "Take No Chance on the 'Riff-Raff' Kind of Day-old Chicks," quotes as follows from an interview with "a neighbor":

"The business of selling day-old chicks has grown beyond the fondest expectations of its early promoters. One hatchery alone last year shipped 700,000 chicks, so I am reliably informed. Pray what were they? That is the question—and it is a question of vital importance to all promoters of the Standardbred industry, to all students and advocates of true poultry culture.

"But few of these hatcheries maintain a breeding establishment adequate to their needs. The employees or manag-

ers of some of them that I have knowledge of, drive over the countryside and buy the eggs at 45 to 50 cents per dozen. A farmer's flock of Plymouth Rocks—Buff Leghorns, with a Barred cockerel behind the barn—is good enough to shell out eggs for certain of these hatcheries. Meanwhile a hundred good breeders right here in the state of Ohio—and in every state—are not making money enough out of their established, dependable stocks to buy their wives new hats."

It would appear that here is a matter which, if it requires investigation on the part of the American Poultry Association, or the poultry journals, cannot begin with the sale of chicks alone or the big hatcheries. It is as much a crime to steal one dollar as one thousand, tho sometimes in the latter case the thief stands a better chance of making good his escape.

How would Mr. Platt, his neighbor, or the American Poultry Association, go about the task of guarding *ALL* sales of chicks or eggs for hatching that the same may be true to name and variety, according to the Standard of Perfection?

In our little community, there are scattered about on various farms and village lots, those who raise poultry and sell chicks and eggs for hatching. At The Anchorage Farm, we are also engaged in this work. Among other varieties, we raise White Plymouth Rocks. Tho we do not exhibit them, they are bred according to Standard requirements. When we sell eggs or chicks we ask a reasonable price for same. I could name a dozen or more people in this community who sell "White Rock" eggs for hatching, among which stock is a wide range of quality, at from 50 cents to \$1 per setting. Is there any reason why I should presume to investigate the business which is being carried on by these poultry keepers? Could such an investigation be instrumental in transforming them into "dyed in the wool" fanciers? I believe not. If we do not make good under the conditions, it is our fault rather than theirs.

However, most poultrymen thruout the East, fanciers or otherwise, would be very glad to welcome a hatchery in their community that would "drive over the countryside and buy eggs, at 45 to 50 cents a dozen" during the hatching season, for use in mammoth hatcheries, or wherever. In fact I talked with one of our most prominent and reliable Western fanciers at the Madison Square Garden Show two years ago, who told me he had great difficulty in getting 35 cents per dozen for his surplus eggs during the hatching season, and he had to pay all transportation charges. It looks very much to me, as tho both the A. P. A. and Mr. Platt had placed the cart before the horse in this matter of bettering conditions among poultry keepers. There are thousands of prospective poultry keepers who can buy only low priced stock, which stock may be perfectly fit in every particular except that of Standard quality. Who shall deny them the privilege? Certainly not the American Poultry Association, which is supposed to have the best interests of the poultry industry at heart.

Conditions such as Mr. Platt quotes, exist in every business under the sun. If, as he states, there are "hundreds of good breeders not making enough money to buy their wives new hats," it is the fault of the good breeders, not that of the mammoth hatcheries.

It is a well-known fact that the market end of the poultry industry is the biggest end of the business. Why is it not a good plan to boost it, and bring about better marketing conditions? The demand for exhibition quality, Standard fowl is limited, while the demand for record layers, or record meat producers, is almost unlimited. This matter of investigation, in so far as variety of chicks and fowls sold goes, can work both ways. Farmer poultrymen are already organizing. Freckled faced farmer boys are coming out of the tall grass toward the front. Suppose they attempt to tell the

fanciers that only egg record or meat record stock be sold? I have read of prominent fancier's plants where \$1,000 a month profit and over was being realized. Looking at the matter from another angle, is it not just as pertinent to know what the customers received in such cases? Sales must necessarily be overwhelmingly large and the quality somewhat varied, since ideal birds in all varieties are presumably scarce. If we are going to investigate, there will be work for all hands. The time and money to devote to it is all we need.

In a district covering a radius of some twenty miles or more, adjacent to my home, there are hundreds of poultry keepers who buy immense quantities of eggs for hatching and day-old chicks for the production of first quality market poultry. They are not fussy as to the Standard quality of the chicks. All they ask is that they should be from healthy, meat record stock, and good likely, liveable chicks, regardless of Standard quality. Is there any reason why we should presume to dictate to either the producers or the buyers of these eggs and chicks?

People everywhere are buying stock from the hucksters and chicks from the big hatcheries, are eager to do so, and in most cases are getting better bred and more nearly true to name birds than any they had heretofore owned. In the course of the past fifteen years, I have visited a great many poultry plants and hatcheries, many of the latter being so-called "huckster" concerns, and I am unable to see wherein the average hatchery is more dishonest in its dealings, or less desirable to the industry than the average "recognized" poultry plant.

We have to admit that the "billion dollar industry," which we love to talk about, is but a "teeny weeny" per cent a fancier's business, and while the fancier is rightfully proud of the important part he has played in the building up and furthering of thorobred poultry interests, very few, on giving thought to the matter, would wish to place themselves in the ridiculous position of presuming to investigate, with an eye to annihilating a branch of the industry which is at present as important, as the so-called "huckster" day-old chick business. These hatcheries are doing as much to increase the interest in poultry culture today and to build up the industry as any other one means.

To investigate and put up a fight against this branch of the poultry business is a sure way of seriously crippling the American Poultry Association. Modern business is not conducted on this plan. A business concern today which aims to bring about an improved order of things in the matters of efficiency or more honorable methods of dealing with the public, would not so much as consider the suggestion of forcing other houses to adopt their plan of doing business or to conduct investigations of questionable business concerns. Brains are too valuable an asset in the conduct of modern business to waste in the investigation of a questionable concern doing business at some obscure cross roads. The building up of its own business upon a broad and honorable basis worthy of emulation is the course pursued, and the success of thousands of the biggest and most reliable houses, throughout the country following this plan will testify that "it pays." The little fellows, and the new comers in the business, must eventually follow their lead.

Naturally the members of the American Poultry Association want to do all they can for the good of the industry—and they can do a great deal. But in order to "do it big," as the saying goes, they must "do it well," which means that the Association must work its reform from within outward, that would-be poultry keepers everywhere may see the worth of our work, and seeing, emulate it.

Let us assume that the "Ananias" Hatchery advertises Rhode Island Red chicks at 10 cents per. People everywhere this ad. is read, will buy these chicks and the chances are that they are worth the price and will stand just as good chance to live as if they were hatched from eggs from prize winning stock. To be sure their value may not be so great but the asking price is not so great. The fact that these chicks when grown would not take a prize in a class of two at a Skedunk show, is not a reason to attempt to put the "Ananias" gentlemen out of business. In fact we cannot put them out of business tho we may use our time, energy and a good useful \$500 fund of the American Poultry Association in an effort

to do so. The thing, however, is impossible so long as the said "Ananias" Company conforms reasonably near to the laws of the government under which they are doing business. That their Rhode Island Reds are grades—to be strictly plain—is none of our business. The chicks are undoubtedly more nearly Rhode Island Reds than any other variety.

The so-called "day-old chick huckster" has interested thousands, perhaps millions, of reliable people in poultry keeping. From the purchase of the 10 cent Rhode Island Red chick to one of "real show birds" is only a process of a few years and it aids in the development of a desire to own and breed Standard poultry. We might as well attempt to prevent a man from showing a bird which he did not raise, or prevent him from possessing anything which he did not make or manufacture.

In case the "Ananias" Hatchery is a downright "skin concern," as is claimed of some, it is only a question of a very short time when it will be forced out of business by its own customers, and in the meantime the American Poultry Association would be more profitably employed by attending to its own "knitting" of building up the Standardbred poultry business and educating members in business methods.

We need not worry about the general run of these big hatcheries. All along the line they are awakening to the possibilities of their business, especially to the fact, that the better their product, the greater the returns in profits and increase of business.

The following is quoted from a letter from one of the many practical business poultry plants now being developed in comparatively new poultry territory in the great Southwest. Many such letters are received by the editorial department of AMERICAN POULTRY JOURNAL:

"I am breeding S. C. White Leghorns here in the Salt River Valley. Leghorns are being kept extensively here and poultrymen are beginning to wake up to the fact that there is a difference in the breeding behind the chick. While prices are comparatively low on eggs and chicks, orders are generally large, running often from several hundred to two or three thousand, and competition is rather fierce. Most of the eggs and chicks offered come from 'just hens,' and while people kick over the number of black spotted chicks they get, they take them because the price is low—chicks \$10 per hundred, \$90 per thousand; eggs 5c to 10c per dozen above the market. There are a few real breeders here in the valley (an intensively cultivated area of 250,000 acres) but the majority of them are breeding show strains of Leghorns. The majority of those who are breeding along utility lines pay little attention to systematic or scientific breeding. There is quite a bit sent out of the state every year for eggs and chicks also.

"We breeders here have had some rather raw deals from Eastern fanciers. They think we are out here in the sage brush surrounded by the giant cactii and gila monsters and that we don't know anything, so that any old thing will go. With fancy fowls we have a Standard to judge them by and can tell at once if we are 'stung.' But when we get birds the price of which depends upon that invisible element—breeding—we have no Standard except the repute of the seller. It is to get this that I have written at such length."

We cannot, as an organization, assume the role of a mighty police domination over people wherever engaged in poultry culture. We do not need to so protect the buying public, since they are neither wholly ignorant nor helpless and ask not for our protection.

The surest and speediest way to bring about fair and honorable dealing among poultrymen, day-old-chick dealers, "hucksters," or whatever, is by education and example, rather than by coercion or force. There undoubtedly exists a crying need for a wider distribution of authentic poultry lore, but there is no hope to help the industry, or those engaged therein, thru investigations of those over whom we have no control. The government is doing educational work along this line, thru boys' and girls' clubs and extension work from agricultural colleges. In the matter of educating the general public, the investigation of hucksters plays no part. Members of the A. P. A. can make better use of their time by keeping right on producing quality Standardbred fowls, and exhibiting them, forgetting in the meantime the existence of those who are producing near-mongrels or offering them for sale. If there are such in any great quantity, as the reports of the

A. P. A. convention would lead us to believe, let us not be alarmed. It is a case of the survival of the fittest, illustrated in the story of the wolf and the deer. Who could have foreseen that the gentle desirable deer should have survived the snarling undesirable wolf in our forests? But minding their own business did it. The wolves squabbled among themselves and ate one another up. The deer practiced harmony and co-operation.

No real reforming has ever been brought about in this world except that resulting from good example. Arguments and clever speaking are of no avail. *They cannot outlive the breath which puts them into speech without the living example back of them.* To remember this would save us an immense amount of futile meddling. Even in the matter of muzzling dogs, we find that it has failed to stop the spread of rabbies, or to prevent dogs, so disposed, from biting. Besides it has been found practically impossible to enforce muzzling. Education of the public as to the cause and the prevention is the only solution.

In the matter of investigation of hucksters, who is to censor and judge the purity, as to variety, of chicks sold? Most of us have bought eggs for hatching from prize winners and gotten chicks that would not pass as Standardbred of their variety—and these from entirely reputable breeders.

In relation to the censoring of advertising, more than one member, would like to ask where is a beginning to be made by the American Poultry Association and who is to take the initial step? In every magazine published we read of the "purest" soaps and baking powders, of the automobiles with "the greatest endurance," of "the most efficient" telephone companies, of "the safest" railway systems, of "the only reliable" boilers, of "the sweetest" oranges. I quote the following from the December *Modern Hospital*," St. Louis:

"Cocoa is not commonly adulterated at the present time, and it is unfortunate that many manufacturers still feel that they must resort to exaggeration and misrepresentation in order to sell their product. Without mentioning the specific brands, the following false claims were found on the labels of certain cocoas listed in our tables; the purchaser who believes all he reads on the average cocoa label is foolish indeed:

"Owing to the removal of oil, it is certainly the most nutritious and wholesome cocoa now manufactured in the world." As a matter of fact, this brand contained more oil than most of the cocoas analyzed, and it is by no means the 'most nutritious.'

"Triple the strength of cocoa as usually prepared. Preserving in their entirety the nutritive properties of the natural bean." Both statements are obviously untrue.

"Acknowledged by the leading authorities to be absolutely the purest cocoa made." This is untrue, as it contains a large excess of added alkali.

"Soluble and digestible." Both statements are incorrect. "Cocoa is stronger and more economical than chocolate," the reverse of which is, of course, true.

"Double the strength of ordinary grades of cocoa." Obviously untrue.

"Soluble," most of the cocoa-butter has been eliminated, 'free from alkali.' This cocoa is not soluble, it contains more cocoa-butter than most brands, and it contains free alkali, showing that all three claims are false.

"Milk cocoa." The Reichert-Meissl number indicates the presence of no milk-fat.

"Instantly soluble in hot water," 'perfectly digestible,' 'unrivaled as a brain and nerve-food.' These statements are all false and misleading."

Similar misleading statements are found everywhere. But the matter does not end there, for there are firms today who are still advertising the fact that their product took the grand prize at the Centennial held in Philadelphia in 1876, and on down thru the list, World's Fair at Chicago, Paris Exposition, etc. They have every right to so advertise so long as they took such prizes. The censoring of advertising is a matter upon which the national and state governments have been at work for some years. Undoubtedly in time they will be able to work out the problem for the best good of the people generally. A penalty is now attached by law in some states where false, fraudulent or misleading advertising can be proved. This covers all classes of advertising. Poultrymen who desire to remain in business will eventually be obliged to be truthful in their advertising and honest in their dealings with customers.

The matter of censoring advertising in poultry magazines will call for exceedingly generous, unprejudiced, broad minded individuals, who are themselves not engaged in the business of advertising in the poultry magazines or directly interested in the sale of advertising space. Under any other plan it cannot be other than a farce. A statesman recently remarked that "Few ruling groups have ever been proof against the temptation to use power selfishly." Let us give long and careful thought before such a committee becomes a recognized fact in the American Poultry Association.

Since we have not yet reached the millenium, there are attempts to defraud in practically all lines of business. We find misbranded goods, deceptive descriptions, short weights, adulterations. The purchaser has to learn to keep his wits about him. Of course the key to bettering the situation is to educate the public to know and appreciate values. It is because of the beginning which has been made in this direction, thru government activity chiefly, that most products offered for sale today are more nearly what they are supposed to be. Manufacturers, producers and the best business concerns everywhere are learning that the Golden Rule in business pays.

There is room for improvement, as there probably always will be, but the improvement will come thru education of the public to appreciate values. The federal and state governments are everywhere, and in every branch of human knowledge, at work on this herculean task. Much of their work may be faulty and not borne out by experience, but this holds true of every increase in knowledge in the history of the human race.

"Upon the faults of his predecessors,
The future man may erect a building
Marvelous in beauty, and imperishable."

In connection with the findings of the executive board in the Harrison-Pennick case, and the subsequent discussions and "referring back" which said findings brought about, I take great pleasure in quoting the following from the report of the convention by Frank P. Johnson, Indianapolis, in *Inland Poultry Journal*:

"The only excitement of any consequence was at the session Thursday afternoon, in threshing out some grievances reported down from the committee, which we regret to hear or see come out on the floor of the convention. We cannot see where the public or the members of the A. P. A. can possibly derive any benefit thru such work. Almost every prominent breeder is a member of a specialty club of his breed, and if a breeder goes wrong, whether he is the buyer or the seller, the club soon finds out and spots him, and if he does not make good, he sooner or later goes out of business. The merchant, no matter in what line he is, who does not give one hundred cents' worth of goods for one dollar, soon finds out he is making a mistake, and he either makes good or he goes out of business."

The Pacific Fanciers' Monthly likewise classes the continuing of this case before the meeting as "irrelevant, incompetent and immaterial" and further states that it was "little calculated to make the poultry fancy, or industry as others call it, attractive to those listening to the wordy combat."

American Poultry World uses several columns in a drawn-out recital of the findings in this case, in which it appears that tho both litigants appeared personally and agreed to the first findings of the board, that the case was twice after allowed to be brought up by members on the floor; and that the genuineness of its second finding is actually disputed by Editor Curtis, both in the convention assembled in the presence of the executive board, and in the pages of the *World*.

A greater element of nobility of character should enter into the acceptance of such decisions. Once made, drop them! Forget them! Too much criticism is bad. A little in these cases goes a long way.

Once upon a time there was a man who considered himself just a common ordinary human unit, which, of course, proclaimed him an "uncommon man" by those so fortunate to own him as friend. This man once remarked that "if everything about him were known, he would be liable for about ten years' penal servitude," adding that he was probably as honest as any man in the assemblage. The fact is, he was more so.

The object of all Association work is presumably that of

getting together for the purpose of advancing a common cause, which in the long run is helping each other. Our cause will not suffer because we are generous with others thus engaged. Sometimes the enemy we would put to rout is acting in quite as good faith as we, and it is the part of wisdom to give him the benefit of the doubt. Character and credit are qualities which cannot be seized or appropriated, but can be destroyed. Their destruction affects others than those from whom they have been wrested.

If there are individuals in the poultry business, or in our Association who revert back to early ancestors and insist on tearing and biting as of old, or otherwise degrading and

unfitting themselves for constructive work, let us as far as possible ignore their prehistoric tendencies and go about our work of making the American Poultry Association, the biggest, most helpful and far-reaching of its kind, undisturbed by their desire to create a general state of upheaval. To follow their lead in such matters is to court disaster.

If we would hope to bring about permanent good to the poultry industry, we must deal generously with others engaged therein, *set a good example in our own business dealings*, encourage harmony in our association with others and *at least try to be lenient toward the short comings of poultrymen in the making.*

A Well-Conducted Specialty Farm

D. W. Young's Plant a Study in Efficiency and Common Sense Poultry Keeping.

By Prince T. Woods, M. D.



MAN AND BREED WELL MATCHED.—that was the way it impressed us when we visited D. W. Young at his home in Monroe, New York, on December 1, 1915. The S. C. White Leghorn is alert, active, nervous and an efficient worker, — the same can be said with equal truth of Dan Young, specialty breeder of S. C. White Leghorns.

D. W. Young was born in Highlands, N. Y., in 1867, and a part of his early training was received in the U. S. Navy, where for a time he served under George Dewey, now Admiral. Generally, wherever you find a naval man, there you find efficiency and the ability to accomplish a great deal with the least amount of fuss and expenditure of energy. This case is no exception, for efficiency and accomplishment is writ in plain view all over the poultry plant of D. W. Young. The plant is compact, with no need to waste steps or labor, altho there are 35 acres devoted to the poultry. Originality, common sense and labor-saving are everywhere in evidence. We spent part of one day on this farm and we could stay there for a month or more and see something of great interest and learn something worth while about poultry and poultry keeping for every day of our stay.

When we say that the man and breed are well matched, we do not mean temperamentally alone, for D. W. Young understands Leghorns and their needs and it is apparent that they understand him. The methods employed here might not work in all locations or with some other breeds, but they are eminently suited to this particular location and to specialty breeding White Leghorns. The whole thing, man, breed, plant, and operation of same, "nick" admirably, and you get a sense of the fitness of things with no discordant note.

From 2,800 to 3,000 head of breeding stock are wintered annually. There were at least 4,500 head of young and old stock on the plant when we were there. Each season from 1,500 to 1,800 chicks are grown on the home plant and many more are grown on neighboring farms from eggs that are "farmed out." All chickens are hen hatched and hen reared, —and we were told that there isn't an incubator or brooder on the plant. Each spring the countryside is scoured for available broody hens to do the hatching and rearing. Most of the hatching is done in May, tho a few earlier and later chicks may be hatched. D. W. Young, himself, and one \$60 a month man, whose only knowledge of poultry is derived from Mr. Young, do all the work of the plant.

D. W. Young has been interested in poultry from boyhood, his father bred poultry before him and imported White Leghorns as early as 1853 and from his father's Leghorns, without introduction of foreign blood, Young's strain has been built up thru 35 years of consistent and scientific line breeding. He says that he never saw an American Standard of Perfection to look between the covers until he had already arrived with an international reputation as a leading specialist in exhibition quality S. C. White Leghorns and had made many years of sensational winnings at the leading big shows. He did not become a member of the American Poultry Association until 1910. Yet, it is common knowledge, and pretty generally conceded, that Young's strain set the fashion and played an important part in making the present Standard for White Leghorns. With the old fashioned type of Leghorns of 35 years ago, where tail and hackle nearly met in an apparent absence of back, Dan Young started out to breed for what he believed to be an ideal type for the breed; how well he succeeded is attested by the beautiful symmetrical type we find in exhibition quality Leghorns of the present day. He possessed imagination, inventiveness and vision, combined



Close up views of colony coops used by D. W. Young, Monroe, N. Y. These coops carry the exhibition-bred birds from the incubation stage to full maturity. Hens are set here and the chickens mature here. The large door at bottom of front permits all to enter and leave coop without crowding or injury to body or plumage. The coop is 6 ft. long by 3 ft. deep; it is 3 ft. high in front and 2½ ft. high in rear. As will be noted the roof is hinged to facilitate cleaning. The long double doors in front are for ventilation and protection from storms and to permit free access. Each door is about 14 in. by the length of coop. Top opening has a wire screen and a wooden door hinged at top as shown. Lower opening has an outer wood door and an inner screen door, both hinged at top to swing out like an awning, same as top door. In spring these houses are fitted with nests for sitters, bedded with tobacco stems. As chicks mature a roost is provided. Owing to the activity of the Leghorns it is possible to run these coops close together to save labor and the growing birds have practically free range.—P. T. W.

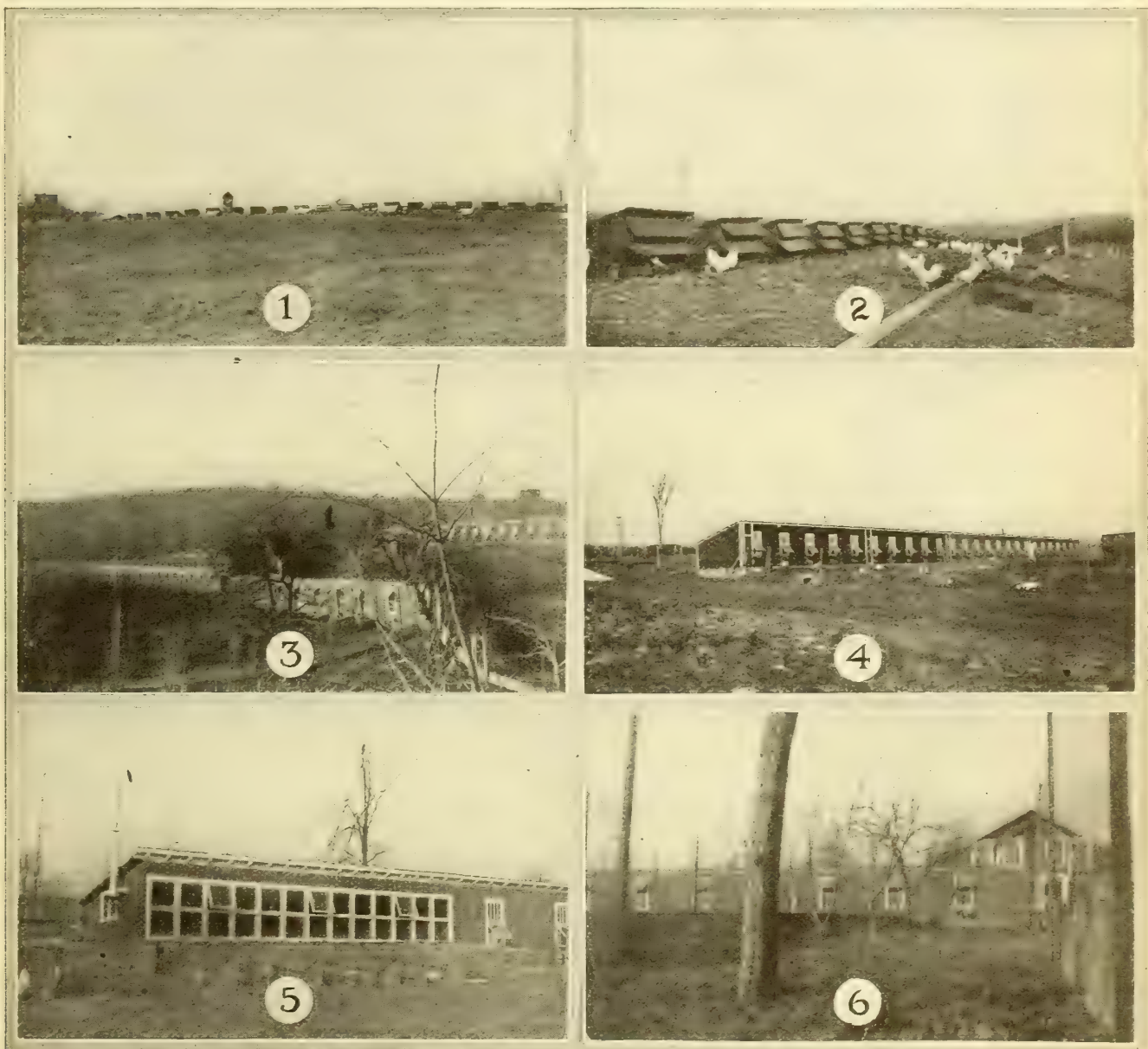
with ability, and he put his whole hearted effort into the development of his ideal of the breed. Today, he tells us, and we believe him, that his matings produce 97% good specimens and that culls are so rare that the family table, and occasional gifts of chicken to friends, will take care of all of the cull Leghorns produced on his plant.

Of his early interest in poultry the story is told of how Dan, when a little lad, was promised some settings of bantam eggs by a farmer, if he would come out to the farm and get them. The temptation was too great for little Dan to resist, and he "played hookey," for the first time in his school experience, and trudged the long walk out to the farm, where he was fairly loaded with bantam eggs. On the way home he "played out" and went to sleep in the woods with his arms around his beloved hatching eggs, and there the searching party found him. As punishment for being a truant, his parents decided that he should not set the eggs, but good old Grandma, as grandmothers always do, came to the rescue and told Dan that she would take the eggs to her home and he could hatch them there. Well, the bantam hatching went thru successfully, and from that time on the boy's interest in poultry thrived. Like many other successful fancier-breeders, he has bred a good many varieties, but he early

decided to specialize in White Leghorns, because the breed suited him better than any other.

Whatever real and personal property D. W. Young now possesses, and we do know that he has approximately \$40,000 invested in home and poultry buildings, and at one time turned down an offer of considerable over \$100,000 for his plant and poultry business. He says it was all made out of the thorobred poultry business and money made with poultry. No Wonder he retains so much of his early enthusiasm for the breed of fowls that has done so well in his hands and done so much for him. And right here we are going to tell you one of the secrets of Dan Young's success outside of his own ability and work and that is, he has a devoted wife who believes in him and who has a keen interest in all that he does and an interest in his fowls, that is second only to his own. That makes a life partnership that is certain to induce accomplishment.

Only long continuous breeding houses are used on the Young plant, and they are essentially Leghorn houses. There is one long house over 400 ft. long, with a feed house in the center, that contains pens each 14x16 ft. Another long breeding house about 424 ft. long with pens 12x12 ft. A special cockerel house 100 ft. long by 12 ft. wide and a wash house



Views taken on plant of D. W. Young, Monroe, N. Y., December 1, 1915. It was a cold day with poor light and we were further handicapped by getting a poor lot of films. 1. View of chick growing range where there is a row of one hundred colony coops and a "sentry box"—the tall building—used for a watchman when occasion demands. 2. A close view of colony coops, then housing surplus cockerels. 3. A winter bird's eye view of the long breeding houses and grain house in center. 4. One of the new long breeding houses. 5. The light, sunny, well-aired training, washing and conditioning house with yards for cooped males. 6. One of the big breeding yards 12x150 ft. just as it looked with heavy growth of rye and Kentucky blue grass ready for winter greens on December 1.—P. T. W.

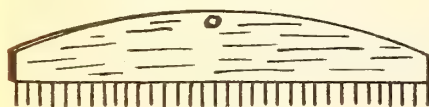
40x14 ft. All buildings are so placed that no steps are wasted in doing the routine work. All outdoor breeding yards for pens are 150 ft. long by the width of the pen, so that green stuff can be kept growing in the yards. Well-kept fruit trees are found in every yard, where they supply desired shade and a profitable amount of fruit. Every building is well built, permanently built, and made as nearly rat-proof as possible. The houses all have a concrete foundation and floor. The



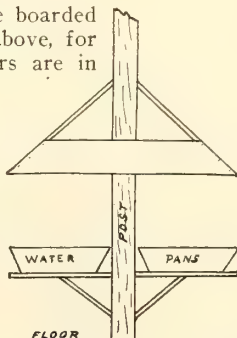
View of special cockerel coops. Show birds are successfully wintered here. D. W. Young is shown posing one of his blue ribbon Madison Square Garden winners and, in spite of the wind that was blowing, you can see the bird is a mighty good looker. Taken at Monroe, N. Y., December 1, 1915. These cockerel coops are a simple colony coop 3x6 ft., divided into two compartments, each 3x3 ft., with a comfortable roost. They are 4 ft. high in front and 3 ft. high in rear. The roost is placed about 2 ft. above floor to give bird plenty of room. The floor is of wood. In front of each compartment is a door containing a glass window. Attendant has access to the coop by the roof which is hinged in front. In front of these coops are placed special yards 6x14 ft., with a middle partition of boards, giving each bird a wire enclosed run 3x14 ft. This gives comfortable quarters for single birds and plenty of opportunity to exercise and keep in condition. It also makes work easy for attendant.—P. T. W.

breeding houses have a solid hard pine floor above the concrete and so protected that rats cannot get beneath it. The houses are of novelty siding and sheathed on inside to insulate them and make them weather proof. Each pen has a glass window 4½ ft. high by 3 ft. wide. This is divided in the middle and both halves hinged at the top and made to swing up and out, like an awning, and held in place by a special window bracket patented by Mr. Young. Inside the window is a screen door of fine mesh wire to keep fowls confined when window is open and to protect the glass. Below each window is a special ventilating opening at floor level. This consists of an opening 2 ft. high by 3 ft. wide, fitted with a frame door having cotton cloth on the outside and fine mesh wire netting on the inside. On outside of the house, hinged at top, is a door of novelty siding that fits awning-like above this ventilating opening and prevents any storm from driving in. The arrangement of windows and ventilating door make it possible to have an abundant supply of fresh air without any draft in the house, good ventilation at floor level—or "on the hen's level," as Mr. Young puts it—and an arrangement that positively prevents rain or snow driving in to wet the floors or litter.

The partitions in these houses are solid board from floor to roof in rear of house where roosts are and are boarded up about 2½ ft. from the floor, with wire netting above, for balance of the partition. The communicating doors are in



Home made hand rake for cleaning drop boards, used by D. W. Young, Monroe, N. Y. This rake is made of hard wood and is about 2 ft. long. The teeth are 8d coarse wire nails, with heads cut off. It is easy to make and easy to use. The drop boards are kept covered with thoroly dry, fine sand to the depth of half an inch or more. The sand takes up the moisture and clings to droppings. Where raking is done daily the work is comparatively easy. Droppings are raked off into light box, having a handle, and are transferred to a wheelbarrow.—P. T. W.



Plan for keeping drinking water clean used in the long cockerel house in basement of D. W. Young's barn. Pans rest on a shelf at convenient height and are protected above by a board hood.—P. T. W.

middle of partition. At regular intervals large doors in front of pens give access to the yards. The drop boards with roosts above are placed at back of pens about 2½ ft. from the floor. A strip of finish board is put on front of each drop board to give it a tray-edge and prevent sand and droppings being knocked off on to floor. Roosts are made of 2x4 in. stock, 2-inch side up and are placed about a foot above the drop board, and about 2 ft. from rear wall and 2 ft. apart from centers. This is to prevent injury to tail feathers of the birds.

In connection with the drop boards and their care, is one important item, which makes for labor saving—the drop boards are kept covered with thoroly dry sand a good half-inch leep. The droppings are removed daily by use of a home-made hand rake that makes the operation very simple and easy. A sweep of the rake beneath the roosts carries the droppings, with the sand that has absorbed moisture clinging to them, into a box carried by the attendant, who transfers them to a wheelbarrow. We saw a practical demonstration of this cleaning and it takes but a very few minutes to each pen to do the trick.

In the storeroom part of the breeding house is a well ventilated room, or bin, which contains many tons of well-dried sand, kept purposely for use on drop boards. This sand room is filled each year with a sufficient supply of dry sand during the dry season. Examination of the drop boards showed that no moisture from the droppings had penetrated to the wood, thus good sanitary conditions are insured. A little dry sand is also used on the floors and above this good dry litter of bright straw. The litter is not made too deep, as deep litter may invite dampness and packing of the straw. A watering device, in every other partition, waters two pens at one time. Hoppers are supplied for grit and other necessities and a special hopper for dry mash.

The grain room is particularly interesting. The floor of bins is of wood with concrete beneath. In the concrete and under all the sheathing is fine mesh, heavy wire netting to make the whole rat-proof. The bins for grain have slip fronts of matched boards so that entire front of bin may be opened for cleaning and ready access. There is storage room enough to hold about three carloads of feed.

Feeding the breeding birds is, with the exception of the dry mash, hand feeding, but here the work is simplified by having the morning scratch grain ration fed at night, after supper, when the birds are on the roosts, so that they can get busy at daylight in the morning. After supper, when he makes his rounds to close up the pens for the night, the attendant scatters scratch grain in the litter in the proportion of half a handful to each bird. Mr. Young says that any bird that went to bed the least bit hungry is sure to be one of the first off the roost in the morning and so this plan not only saves labor, but it serves to equalize the distribution of food. Another scratch grain feeding is given in the afternoon about 3 o'clock and never later than 3:30 p. m. The scratch grain is made of one part each of corn, wheat, and barley and two parts oats. At noon, to keep the birds busy a little oats and golden millet are scattered in the litter, but this is not fed if there is any scratch grain remaining in the litter.

Dry mash is fed in hoppers which are opened at noon and closed about 2 p. m. Mr. Young says that dry mash for his



Dry mash hopper used for birds on open range by D. W. Young, Monroe, N. Y. This hopper is 6 ft. long. The end board is about 11 in. wide by 18 in. high. The side strips are about 4 in. high. The roof is made detachable in one piece and is covered with roofing paper to make it watertight. It is hooked in place, at each end. The roof boards are about 12 in. wide on each side of hopper and extend about an inch and a half beyond each end. This keeps out all drip. The dotted lines show the position of the inside boards which make the hopper. These are placed straight up and down, so that mash cannot clog, and they extend to within about 2¼ in. of the floor. It makes a good practical hopper, easy to use, and it holds a little more than a full bag of mash.—P. T. W.

Leghorns is "like pie" and, altho he wants them to have a liberal supply, he wants them to get it quickly and not to get stalled on it by having it always before them. The dry mash is prepared by special formula at Orr's Mills from the usual ingredients. One special feature of this dry mash is that the beef scrap used in it is as fine ground as it is possible to obtain it. This makes it necessary for the birds to eat the whole mash mixture to get the beef scrap; it was found that where coarse scrap was used, some hoggish member of the flock was sure to pick out most of the meat and let the others go without, and also there was temptation to pick the mash mixture wastefully out of the hoppers in order to get at the meat. Houses are piped with faucets at regular intervals, so that watering is convenient and easy. Green food is supplied as available, but for the greater part of the year the yards carry a fine growth of rye and Kentucky blue grass, which serve the dual purpose of sweetening the soil and giving a splendid yield of the best kind of succulent greens. On December 1st we found rich, heavy, green growth of tender rye and blue grass in the runs.

The growing stock have practically free range over grass land, there being 85 adjoining acres of available range, of which Mr. Young has the use for his flocks. The colony houses for chicks, of which there are 100 or more, are placed in long rows close together. Here the hens are set, the chickens hatched and grown, with as little moving about and handling as possible. As stated, all hatching and rearing is done with hens and practically all is done in the month of May. This simplifies matters considerably. In front of the colony houses runs a long trough of boards at ground level, as no feeding on the ground is permitted. At regular intervals there are roofed hoppers for dry mash. The broody hens are set in these colony houses in nests made of tobacco stems. Before nests are made the houses are sprayed with a lice-killing mixture of one part crude carbolic acid to three parts kerosene and this is followed by a thoro whitewashing and the coops allowed to dry in air and sun. This gives a clean start. The brood hen gets a good dusting with lice powder before she is put on the nest. Each week she gets another dusting to make sure of getting any lice that escaped the former treatment or hatched since. The nest of tobacco stems is another safeguard against lice. When the hatch comes off the mother hen gets a very little 33% blue mercurial ointment applied above and below the vent and to the under side of wings close to body. With these precautions taken, Mr. Young says that lice trouble his fowls and chicks but very little. The lice-killing mixture mentioned is also used regularly on the roosts in houses for growing stock and adult birds to prevent lice. It is always applied early in the morning and allowed to dry in thoroly before the birds are permitted to roost.

In growing young chicks the mother hen is confined and the youngsters allowed to range. For greens they get good fresh grass. They are permitted out on the ground from the time they are ready to leave the nest. Great care is taken to supply chick food that is made from sound old grain only. The white corn used for feeding must be sound and three years old. More bowel trouble and disease is believed to come from poor and unsound corn than from any other cause. The first food is a chick food made of fine cracked white corn, cracked wheat, pinhead oatmeal, and cracked barley groats. Bran is supplied for mash. The range supplies greens and insects. Growing stock gets practically the same ration except that the cracked corn is of larger size and whole wheat, hulled oats and whole barley groats are used. No meat is fed until the birds are three months old, but they get plenty of grasshoppers, bugs and worms on range. Altho fed three times daily the chickens are not heavily fed, the object being to make good sound bone and muscle with but little fat.

The young and old stock we saw on Dan Young's farm certainly demonstrated that he breeds, feeds and manages for health and vigor. The birds were sound and in first-class order, and we did not see a sick or dopey specimen on the place. As for color, there was ample evidence that the birds breed white, for they were as naturally white in feather as are the beautiful white Homer pigeons that have always made a standard for white feather color. Everywhere it was the same, out on range where surplus cockerels still occupied

colony coops, in the cockerel pens and in the breeding pens. the birds were clean, white, in the pink of condition and healthy and vigorous. Such specimens cannot need a great deal of conditioning and preparation for exhibition, and, in fact, they do not get it.

Compared with the amount of business done, and with all white birds, the cooping and conditioning quarters are about as small as any we have seen. Most of the room in same is



Another close view of the colony coop used by D. W. Young, Monroe, N. Y. There was a cold, raw wind blowing at time photo was taken on a rather gray afternoon in December. Most of the birds are in the coop on the roost. These are surplus cockerels. A few feet in front of this row of coops is a flat wooden trough running the whole length of the row of coops, probably 400 ft., and all grain is fed here. No food is thrown on the ground. Mash hoppers are placed at regular intervals all along in front of this row of coops. Drinking places are provided at convenient distances. The birds are grown in condition and stay in condition.—P. T. W.

given to cockerel coops and outdoor runs. The wash room is small indeed. There is not a great deal of special cooping done. Whenever necessary to keep birds in training, they are generally in comfortable coops with an outdoor run. Close cooping is practiced as little as possible and for only brief intervals. One reason for this is that Young birds are always in condition. Another reason is that he keeps his birds tame and never breeds from what he calls a "wild, mean dispositioned specimen"—the birds are bred tame and are naturally tame, tho not lacking in vigor or aggressiveness. There is a lot of understanding between the breeder and his birds and it is a safe guess that Dan Young knows most of his birds as individuals. Therein lies another one of the secrets of his success. Birds that are naturally timid and nervous get their first handling at night, they are never frightened and care is taken to feed them some special tidbit, like meat or other specially liked food, to get them eager for a visit and handling. Then too the well-known scratching of throat and wattles, that is so well liked by poultry, is also invoked to encourage the birds to pose to best advantage. Except for special food, as mentioned, the birds in training receive practically the same ration as the breeding stock. So far as possible the real fitting and conditioning is a continuous process and conducted out in the open on good green range.

As has been stated, the Young strain has been line bred consistently for 35 years without the introduction of "new blood." The foundation stock was healthy and vigorous and represented several families. In a large measure these family lines have been maintained. When it is necessary to make an unusually close mating, extreme care is taken that the mating is well balanced, weakness of any kind is balanced by strength on the other side of the mating. Health and vigor is always required in the stock, and it is never lost sight of.

Breeding stock and eggs for hatching are sold every day in the year. A considerable volume of business is done every season with old customers. Every step in the business is conducted with simple, easily understood, common sense system. Protection against loss of breeding stock by fire is provided by the usual precautions and also by having good stock placed where all could not be swept away at one time—in other words, the eggs are not all in one basket.

Some market eggs are sold in the Fall, thru September, October and November, to take care of the surplus output. Each season chickens are grown on outlying farms from

Young strain eggs. Careful account is taken of the feeding of these flocks and the care that they receive. Even the best of poultry can be spoiled in the care, management and feeding during growth, and it is necessary to oversee farms where chick growing is farmed out. Mr. Young estimates that the cost of food required to grow a Leghorn chick from shell to three months old will range from 7 cents to 11 cents per chicken. He pays his growers \$1 each for growing early May hatched chicks and 60 cents each for growing chicks hatched after the middle of May. He requires that all chicks

grown for him must be natural hen-hatched and hen-reared, and that they must be cared for as he prescribes.

As a study in simplicity, system, efficiency, common sense management and perfection of details and labor saving, D. W. Young's plant is worth a visit by any person interested in poultry keeping. We have only briefly mentioned here a part of what we noted during our short visit. Some day we are going again in the chick growing season, and we expect to tell readers about it.

Fancier — Breeder — Utilityman

Why Not Be Poultrymen and All Work Together? The Field Is a Wide One With Opportunity for All. By Prince T. Woods, M. D.



WHY SO MUCH DISCUSSION about "fanciers," "breeders" and "utilitymen" and so much talk about "that word 'utility'?" Are we not all poultrymen and working for "more and better poultry?" The field of endeavor in poultry husbandry is a wide one, there is plenty of work that needs doing, there are many branches open to those who would specialize, and there is an opportunity waiting ready for every earnest worker. Why not try to get together and do a little team work for the common good?

How many real true fanciers have we?

We take it that the true fancier is a poultryman who is working to attain an ideal, striving to help create something beautiful and worth while, without looking for, or expecting to receive, financial reward for his labor. He does not breed poultry for gain. He shows his birds for the love of the sport and for the satisfaction of proving, in competitive exhibition, that he has really bred something better than his fellow fanciers. We have some such real fanciers, but how many?

When a "fancier" commercializes his business, seeks to make it pay, he really becomes a specialty breeder, does he not? You would hardly say that it was really true sport to show to win—even if one must buy birds to show and show only where the chances are most favorable—chiefly for the advertising value of such winnings, and the orders for breeding stock, hatching eggs and show birds it will bring in? An honorable and legitimate business surely, but why split hairs over definitions? Why not get right down to brass tacks and admit that we are all poultrymen and that breeding Standard-breds for exhibition values is a desirable interesting and remunerative branch of poultry husbandry? Also that breeding for utility or practical values, in greater egg yield and better poultry meat from Standard-breds, is another branch of poultry work, which may be combined with the production of exhibition quality, and which may be made equally desirable, interesting and remunerative? Surely it isn't necessary for A. P. A. judges to try to caponize the word "utility" and alter its real value and true meaning.

Just look over the following comment recently made concerning "Utility:"

"THAT WORD UTILITY."

"The word utility has come into extensive use, because it appealed to the masses of uninformed who either were without any experience or were about to engage in the poultry business and who had little or no conception of it. The term appealed to them as it should if it were applied to poultry in the dictionary meaning of the word. * * *

"Properly speaking the word utility as applied to poultry at the present time refers to that class of poultry that is discarded as culls by the fancier. Thro misconception the term has been misused, as the true meaning is 'useful.'"

"The word as first applied to poultry was used by breeders of Standard fowl who wished to dis-

"THE UTILITY CRAZE."

"The breeder of strictly fancy fowls, that is the man who does not pretend or wish to make his poultry money thru the sale of eating chickens or market eggs, is constantly studying his particular variety and spending many hours at night in planning a method of mating up his birds so as to produce the best young stock possible. * * *

"The man who turns out succulent and tasty fowl for the high-class markets is equally zealous in experimenting with crosses, finding new methods of quick fattening, studying the best means of picking and dressing and is anxious to surpass his neighbor in his own field of endeavor. * * *

"Let the public beware of false

pose of their culls—stock that was not good enough for exhibition or breeding purposes.

"Included in the so-called utility grades, the expert poultryman disposes of crow-headed birds that are lacking in stamina and vitality, and birds in which these qualities are missing can never be expected to do heavy work as laying fowl. Just as the 'expert' disposes of crow-headed birds, so does he also get rid of roach-backed, those in which the legs are not set well under, wide apart and those that are knock-kneed. Flat breasted birds are also included in this class, not one of which can be expected to do good work even as a laying fowl, as a table fowl or to meet the requirements of a breeder. * * *

"Standard-bred fowls are preferable for uniformity in product if for nothing else. In the so-called utility fowls this point is sure to be lacking and to grow in variation as the utility craze progresses, as the utility breeder does not care a straw for Standard requirements and trusts to luck in his breeding. Having no Standard ideal to go by (the majority of these so-called utility breeders never saw a copy of the book), they can mate for but one purpose and that is to renew their flock. It goes without saying that a variation in form or shape will shortly be apparent and in many cases be exaggerated. * * *

"To give the devil his due, we believe that the greed for perfectly good dollars on the part of certain breeders of Standard-bred fowl led them to attach this word utility to their culls in order to dispose of them to advantage to the unsuspecting and uninitiated poultry public. This is purely a logical interpretation of the cause forced upon us by the wide publicity given the so-called utility cause in the poultry press. With column after column of this buncombe, appearing month after month, it is only natural that a great amount of favorable sentiment would be created and that the beginners would turn to the class of fowls that had been heralded as mortgage lifters and producers of quick riches. But, let us ask, how many are there who have started with stock of this class that have made a success of poultry raising? True it is, that there are exceptions, but where there has been one success, there have been one hundred failures."—William C. Denny in November A. P. W.

prophets in the land of poultry; let it think before it acts and let it disabuse its mind of the thought that there are two distinct and separate kinds of poultry 'utility and fancy,' for one is actually the same as the other. They both sprang and always will spring from the same parents. They are not distinct, but one and the same and if any difference does exist it is only along the line of specialization. Let the public remember that because one man's birds lay better than another's, or because they are more full of meat than another's, does not make them a separate or distinct breed or variety. It does not put them in the so-called 'utility' class as distinct from the other man's and it does not make them any better in the true sense of the word than originals from whence they sprang. They are simply bred along certain lines to their detriment along other lines. I myself carry a large number of what other people call utility Leghorns, that is these birds are bred with the special object in view of securing a certain strain which will year after year produce a high flock average of marketable eggs—with that sole object in view; that is I have ceased to expend any effort with these birds upon their minor fancy points. I do not care particularly whether the birds have combs with five or six points. I do not care particularly whether they carry their tails at an angle of 30 or 45 degrees. I do not care if their ear lobes show sometimes a little buff or a little red. My particular object in reference to these birds is to have them continue to yield a large number of eggs. Thus these birds are not as good in fancy or Standard-bred requirements as some others which I have of the same variety, and it is a good deal easier for me to bend my effort in one direction only, rather than strive to maintain all of the fancy points together with the ability to lay eggs; but that does not mean, and never will mean, that either myself or any other man cannot produce and continue to produce a strain of Leghorns which will have both the ability to lay a large number of eggs and all of the smaller points required by the Standard of Perfection. Such a strain can be built up and has been built up by many men and the fact that my birds, like hundreds of others, are not perfected in all respects does not entitle them to be called 'utility Leghorns' as distinct from Standard-bred Leghorns; for please remember that they are all Standard-bred. They are all pure Leghorns. They are all line bred Leghorns. They are simply not show Leghorns because they have not been bred for show Leghorns."—Charles D. Cleveland in November Everybody's Poultry Magazine.

Read the above quotations painted in parallel column and we believe that you will agree with us that, while Poultry Judge Charles D. Cleveland appears to be swimming grace-

fully and toward a definite goal, Poultry Judge William C. Denny appears to be beyond his depth, unable to swim, and floundering in a most distressing manner. It is too bad, for if we are to take Mr. Denny's word for the doings of "experts," "certain breeders," and "fanciers" we might be obliged to classify them with the other "pirates and parasites" we have heard so much about.

Now, as a matter of fact Mr. Cleveland is right that "utility" poultry and "fancy" poultry are both Standard-bred poultry and that the difference is only in the manner, and for what purpose, the strain has been bred. It *positively is not true* that "utility" specimens are "fanciers' culls," including crow-heads, roach-backs, knock-knees, and so lacking in stamina and vitality that they cannot lay or breed right. If any breeders sell that kind of "culls" as utility specimens, then they are woefully ignorant or criminally dishonest. The only reason for selling deformed and physically weak specimens as utility stock must either be ignorance or actual crookedness.

We know a good many fanciers and specialty breeders, good men and true and some of the finest men we ever tucked our feet under the same table with. We know that these men do not sell weak, sickly, deformed culls as utility stock. Some carry special lots of breeding birds that are line bred for egg production, or for meat and quick growth, or for both. Others mate up large flocks of surplus sales stock and Standard-bred specimens that are lacking in minor show points, generally using a large number of females with several very good males, and call these their "utility matings," from which "incubator eggs" and low-priced settings are sold. We have, however, dealt with some little known breeders and have received very inferior culls for utility stock. In each case we put it down to ignorance and not dishonesty.

Now, we also know intimately a number of good poultrymen who are utility specialists and they one and all use pure bred Standard poultry, with a few exceptions, who specialize exclusively in quick grown market chickens and use first crosses of Standard-breds. We also know quite a few successful breeders of exhibition quality Standard-bred poultry, who began as "utility men" as egg farmers and as eggs and market poultry producers. Some of these men have, of recent years, been consistent winners at the leading big shows.

Utility poultry never did and never will really mean weaklings and unfit culls, no matter what ignorant or dishonest persons may have done. Plenty of utility specialists own Standards and use them. True utility bred poultry is Standard-bred poultry. The utility feature is simply a line of specialty breeding, just as breeding for show points is specialty breeding. As for "failures," didn't a friend of Mr. Denny's tell on the floor of the A. P. A. Atlantic City Convention about the "poor suckers" who failed in the breeding of Standard-bred poultry, because they tried to mate Standard ideal males with Standard ideal females and became disgusted because they could not get results? Was not an argument made that instructions for mating and breeding should be included in the separate breed Standards, so that beginners might mate understandingly and get better results? Isn't it pretty generally admitted that show females and show males mated together will not get a good percentage of show specimens? The Standard describes the ideal male and female for exhibition purposes, but it don't tell how to mate to get them. It takes experience and skill to mate and breed birds that will win in the show room. It is a branch of Standard poultry culture, this specialty breeding for exhibition quality and it is a mighty interesting and desirable specialty. Show poultry and utility poultry are and should be Standard-bred poultry. The fancier and breeder breeds his Standard-breds for show quality or to produce show quality. The utility specialist works along eggs and meat lines with his Standard-breds. The former gives great attention to the lesser Standard points, and the latter heeds the small show points little, but does breed to Standard, even tho he gives greatest attention to egg production, quick growth and uniformity.

To breed Standard-breds for utility qualities, that is along either eggs or meat lines, or both, the chief foundation requisites are HEALTH, VIGOR and VITALITY. Without such a foundation the man who breeds along utility lines cannot succeed, he must have a healthy foundation stock that possesses abundant constitutional vigor. We know what we

are talking about, for we have been breeding poultry along these lines for some time, getting right out on the farm with them—not sitting in a city office and dictating guesses to a stenographer on the top floor of a brick block, where the only "chickens" in sight wear their feathers on hats or on detachable neck gear.

No man who specializes in utility lines with Standard-bred poultry can afford to breed, or sell as breeders and layers, deformed specimens or those lacking in health, vigor and vitality. In fact, the sensible utility poultryman will never breed a bird that has had any serious illness at any age. He breeds for health and vigor. He breeds for uniformity in growth and yield. He breeds for uniformity in quick development and uniformity in maturity. He has to do this in order to stay in the game and make a profit.

There is absolutely no money to be made in the haphazard breeding of nondescript poultry for market eggs and meat. You can't get back a new dollar for an old one working that way. It takes specialty breeding and expert selection to grow poultry successfully along utility lines. To maintain a flock of heavy layers, one must have health and vigor and must select and breed with egg yield as an object, and it is best to stick pretty close to the main Standard requirements for the variety, for uniformity in the flock is an essential in breeding for eggs. If breeding for meat, one must work for uniformity in quick growth, size at any given age, husky big bodies and well set large legs. There absolutely is no place for a crow-headed, roach-backed, wry-tailed, crooked-breasted, knock-kneed bird in a utility specialist's yards. Every poultryman may get some such weaklings, but he should always sell such as quickly as they are marketable, to the hen trader, who buys for the cheaper class market trade. There are a great many grades of market poultry, but it pays to grow only the best.

Look up any poultry article exploiting any of the so-called "popular varieties" and you will invariably find reference to their superior laying qualities or meat qualities, or both. Now if beauty and utility are not wanted in double harness, why always make a bid for boosting a variety by talking about its utility qualities? We most emphatically believe in Standard-bred poultry and we believe in combining beauty or show qualities with utility or practical qualities, just as far as it is possible to do so. But we have no doubt that there will always have to be specialists in all branches of poultry culture and that the specialists will do the most business and earn the greatest profits.

While it is true that all Standard poultry possess, in some degree, certain utility value, it is also true that some are more to be desired from a fancy breeding and show room point of view than for their utility merit. As a rule the true fancier of such varieties don't care much about their utility qualities so long as they lay well enough to give him birds to show and win with. He generally considers them as preeminently "fanciers' fowls." Yet, all of the leading Standard varieties possess exceptional value for eggs or for meat, or as general purpose varieties for both eggs and meat: all that is needed is specialty breeding and experienced selection, with certain skill in handling, to get the desired results.

So, why not dust the chips from off your shoulders, friend fanciers, breeders and utilitymen? Just remember you are all good fellows together, all poultrymen, and all interested in more and better Standard-bred poultry.

The proposition of establishing poultry plants at each of the state institutions—penal and charitable—is being agitated in Oklahoma. It has already been tried out at the institution for feeble-minded at Enid and has proved successful. Some time ago a small plant was installed and now there are over 1,000 chickens on the place. The object is to make these institutions at least partially self-sustaining.

* * *

Prof. N. E. Chapman, of the Agricultural Extension Division, University of Minnesota, estimates that there are 16,000,000 hens on the 160,000 farms in Minnesota. He has figured it out that if these hens will average one dozen eggs per month during the winter, the income of Minnesota's farmers from eggs alone would be about \$5,000,000 per month.

"WE LEAD, OTHERS FOLLOW"

EDITORIAL

American Poultry Journal

Entered as Second-Class Matter August 9, 1886, at the Postoffice at Chicago, Ill., under Act of March 3, 1879

65,000 A. P. J.'s for February, 1916.

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State of Illinois, County of Cook, ss.:

G. M. Atwell, president of the Atwell Printing House, Chicago, being duly sworn, certifies that the American Poultry Journal has contracted for printing and binding 65,000 copies of the February, 1916, issue.

G. M. ATWELL.

Subscribed and sworn to before me this 15th day of January, 1916.

[SEAL]

HENRY G. EISERT,
Notary Public.

OUR GUARANTEE.

We guarantee our subscribers against loss due to fraudulent misrepresentation in any display advertisement appearing in the American Poultry Journal, providing the subscriber when ordering the fowls or merchandise states that the advertisement was seen in the American Poultry Journal, and places the order during the month or months in which the ad is inserted in our columns and notifies us of the fraudulent misrepresentation of the advertiser, giving full particulars, as soon as it occurs.

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Look at the address on your wrapper. See that it is absolutely correct and notify us of any mistake, no matter how slight. Note the expiration date which appears thereon, and renew your subscription before the expiration date.

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AMERICAN POULTRY JOURNAL is the oldest poultry paper in America. It has a national and world-wide reputation. The best writers on poultry matters contribute to its columns. It receives the patronage and endorsement of the foremost representative breeders of standard poultry and manufacturers of poultry appliances in the country.



WITH PRACTICALLY all of the Old World under the restraint of the CENSOR, it is not particularly surprising that the censoring craze should afflict the mercurial minds of some of the hot heads in this country.

Nevertheless, the spectacle of the American Poultry Association, in convention assembled at San Francisco, seriously voting to censor poultry advertising and to investigate the plants and business of "hucksters", day-old chick hatcheries, and certain other poultrymen, strikes us ridiculously funny. The absurdity of the whole thing is increased by the fact that the men, appointed on the committees, have already demonstrated in the public print that they are biased and prejudiced in the matters to be investigated or censored.

Just where this little handful of members,—who by no means represent the whole association,—get their authority, or where the association has any legal authority, to conduct such investigations or attempt such censorship, or that they could be depended upon to conduct such in a fair, unbiased and just manner, does not appear.

Also, there is very good reason to believe that some of the advertising, acts, and methods of the association itself, might well be reformed in the interests of truth, fair play and good fanciership.

Please do not misunderstand us. We believe in and are just as strong for Truth in advertising, and Honesty and the Golden Rule in business, as anyone. We know there is room for a lot of improvement in all advertising, we insist upon a good many changes before we accept advertising and we believe that truth in advertising is coming fast. But we

cannot get into the state of mind of the man who throws a fit because of the other fellow's advertising and then goes to work, in his own catalogs and display ads, and perpetrates something infinitely worse and much more calculated to deceive. That sort of reform is humbug, and to see it proposed is the height of the ridiculous. When a surgeon wants a festering sore to heal, he tries to get the healing process to work from within outward,—and that is the only way he can succeed. The same thing applies to the sore spots in the poultry business. Start the healing process from within. Let the clean up come in the association and, particularly, in the methods of the would-be reformers.

We like to see, and want to see, truth in advertising, but we really cannot get very much excited over advertising catch lines like "Best in the World," etc. We Americans do not easily get away from the idea that a certain amount of "hot air" is required in advertising. Poultrymen are, most of them, enthusiasts. The last big show is always the "biggest and best ever held." It is largely the same sort of emotional display that causes the young bridegroom to proclaim that he has "the best little wife in the world." Probably he has, FOR HIM. We have had very prominent breeders most seriously tell us about the superlative value of their strain and that they did not know where on earth they could go to get new blood, if they had to. Sure, they believed, and believe it. It is because they believe just this, that they succeed so well as specialists. You can't tell us that that sort of thing is not honest. We look on enthusiasm and interest of that sort as one of the most honest and worth while things in the world, and we don't believe in trying to kill it.



SOMEBODY, a long time ago, said that the poultry business is a "season business," confined to the "short show season" and the "hatching season." Wiseacres repeated this "season business" buncombe until pretty nearly the whole fraternity has hypnotized itself into believing it. We said "pretty nearly" all, for there are a few successful leaders in the business, who are perfectly willing that the majority should swallow the "season business" dope—it leaves the field more free to them—and they are keeping busy and doing business every day in the year.

It is about time to forget about "season business" and to talk and work for "all the year around business." The every-day-in-the-year poultry business is no dream of a visionary,—it is a very ordinary fact. This is a big country and somewhere within it, eggs are being incubated and chickens grown every day, and we have nearly every known variation of climate. We don't have to limit our poultry business entirely to our own country, and we do not do it, for our poultry magazines go all over the world and bring in business from every country where there is interest in pure bred fowls.

Yet, the "season business" habit keeps merrily on. Our poultry magazines for about five months of the year have to thin down to almost half size because of the small amount of advertising carried during the "slack season." Our incubator and supply houses—many of them, but not all—make a big noise, put on extra working force and work overtime, for a few months, and then almost close down and make only "feeble peeps" for publicity during the rest of the year. Many of our breeders boost their favorites strenuously from November to May and then drop out of sight, so far as the public is concerned. The "show season" starts with a lot of fuss and feathers in the fall, shows plenty of life and vigor for a few short months and then retires for another long rest with the close of the big winter shows. After the first rush of the "breeding and hatching egg season" the whole fraternity seems to become afflicted with "sleeping sickness" and drops out of ken of the general public to store up energy for another spasmodic outburst of enthusiasm "next season."

Is that the best we can do? It is not! The books of some of our leading successful breeders show that they do business the year around, they sell eggs for hatching and breeding stock practically every work day of the year. How do they do it? They keep before the public all through the year—keep up their advertising the year around—and do not content themselves with a little spasmodic splurge of space and bid for business during a few short months. They are in the business to do business and they keep busy and everlastingly at it. Some wide-awake manufacturers and dealers are advertising for year around business AND THEY ARE GETTING IT. It has been said that you couldn't keep up interest in poultry shows "out of season," yet one of the most successful poultry shows—one of the best business shows for management and for exhibitors—proved to be an almost continuous summer show. Just as soon as advertisers get out and hustle for business the year thru, and keep good sized ads running every month in the year, then you will see poultry magazines fat up to full size for twelve

months in the year, interest will increase and there will be BETTER BUSINESS FOR EVERYBODY. You can't enthuse and rush for about six months and then drop out of sight and stagnate for the next six months, and hope to accomplish anything worth while. You have to keep pegging away every work day in the year and maybe on some Sabbaths,—tho we don't believe in Sunday work.

The sooner we all forget this "season business" buncombe, that has been stinging us with the sleeping sickness for nearly half the period of our usefulness, the sooner we shall begin to get somewhere and accomplish something in the pure bred poultry business. Why not turn over a new leaf this year—it is not too late now—and start out with a determination to make this poultry business show up as a good legitimate year around business. Keep the advertising space working, make it work every month, every day, in the year. It will do a whole lot to build up your business, strengthen your purse and put a little helpful, healthful "ginger" into poultry interests.

Get busy! KEEP BUSY! STAY BUSY!



VALUES ARE queer things. What one man may value highly another may rate as almost worthless. One of the first things a young doctor has to learn, when he begins practice, is that some families value his services very highly and others "wouldn't have him to attend a sick cat." We have "been there" and we know, and when anyone gets to talking on values of Standardbred poultry, we, somehow, can't help recalling other comparisons of values.

At a recent big show, the first prize pen, in a class of 15 pens, sold for just \$25, or \$5 per bird, and there were some fine pens in the class. The buyer said he bought the pen because he particularly wanted two of the females in it and that he considered the advertising value of the win worth more than he paid for the pen. At the same show a first prize cockerel was sold for \$150, and a winning string of one variety cost the exhibitor over \$2,000.

Exhibition quality Standardbreds may sell anywhere at prices that range from \$5 to \$50 each for females and \$10 to \$100 for males. Prices on single birds to win at certain shows have gone up to several hundred dollars each, the price fixed not only on the bird's value but on the value of the win. Breeding stock prices may range from \$3 to \$25 for males and \$2 to \$20 for females. Any male priced below \$10, or female below \$5, may be good sound utility value stock, but it is pretty certain to have quite a few defects. When the quality price, for a specimen that closely approaches Standard exhibition quality—and remember, none of them are perfect—is placed at \$50 to \$100 per bird, you cannot expect to get everything that the Standard calls for at \$5 to \$10 each.

We have known a record layer in White Rocks to bring \$800 and the buyer considered her worth it. We have known of a good many sales of bred-to-lay, utility stock that brought from \$15 to as high as \$100 per breeding bird,—not on exhibition values, but on what both seller and buyer considered breeding values worth the money.

The great majority of beginners want to buy low priced birds,—we believe largely because they can-

not afford to pay more—and from \$2 to \$10 is about their limit. The biggest demand is for "utility" breeding and laying stock at \$2 to \$3 each. Obviously, if the buyer of such low priced stock gets good, strong, healthy specimens, free from deformities, and fairly represents the characteristics of the variety, he gets all he pays for. We figure that we cannot afford to coop and ship a single bird at less than \$2 and we cannot wash, coop, and ship one bird for less than \$5.

We can get from \$1 to \$1.50 each for most of the birds we raise, from the market poultry buyer, for birds sold live weight, right on the home farm. Females, if vigorous, healthy, and free from deformities,—regardless of breed or minor disqualifying defects,—are worth from \$1.50 to \$2 each when ready to lay—will bring these prices sold just for layers and nothing else.

While values should be governed to a certain extent by the production cost, mighty few folks know what the production cost is or how to figure it, and

as a general rule the selling price is fixed by *what the seller is willing to take and what the buyer is willing to pay*. Better learn to appraise values. Don't expect too much for too little.

How It Looks Over Seas.

WE have no brief to defend or uphold F. E. Harrison. This magazine has kept out of the Harrison-Pennick-Curtis controversy and we do not believe that such "public washing of dirty linen" ever does any good, and we do know that the sort of mud-slinging that has been printed in at least two poultry journals does do incalculable injury to everybody in the fancy poultry business. In spite of the fact that the Executive Board of the American Poultry Association has acted on the evidence presented in the Harrison-Pennick case and that Mr. Harrison still remains a member of the association—which may be presumed to be exonerating him from any suspicion of conduct unbecoming a member—the slurring and mud-slinging continue in

the Curtis reports of the San Francisco convention.

It is not our purpose or intention in this editorial to indorse Mr. Harrison. It is printed in the interest of fair play and to present a letter from an Australian missionary which bears directly on the subject. So far as the personal opinion of the writer goes, Mr. Harrison is no worse and no better than a good many other well known poultry breeders.

From the report of proceedings given in *American Poultry Word* we learn that the Executive Board on Monday, November 15, found as follows:

"That the said F. E. Harrison should reimburse Mr. R. L. Pennick in the sum of two hundred (\$200) dollars as a satisfactory settlement. Both the parties to the case, appearing in person before the Board, agreeing to submit to the decision of the Board as final."

To any fair minded person that would appear to be the right place to stop,—a final settlement agreed to by both parties. Before this report was read to the convention, Mr. Curtis asked that the reading be postponed until he could present a motion referring the case back to the Executive Board to receive additional evidence and hear new witnesses. This motion was voted down. The report was then read. After which Mr. Curtis talked the assembly into accepting a lengthy motion referring the case back to the board for a rehearing. Mr. Harrison said he was willing to have a rehearing, but quite naturally voted against it, at least the report says he did so.

On Thursday, November 18, the following report of the Executive Board was adopted:

"We, the Executive Board, to whom was referred the case of R. L. Pennick vs. F. E. Harrison, for a rehearing, beg leave to report

RED SUSSEX EGGS FOR HATCHING

Mating list will be mailed the 15th of this month. I will be pleased to send you a copy free. Write for it today. My flock is in good condition and strong fertility assured. As for quality, read the following letter from Judge A. H. Emch:



"I sure did spend a pleasant day with you and enjoyed looking over the birds, and am so glad to know that you have so much quality in your flock. Am sure you have the best flock of Red Sussex in America. After one has seen the best the other breeders have, one can see and appreciate the lead you have over them."

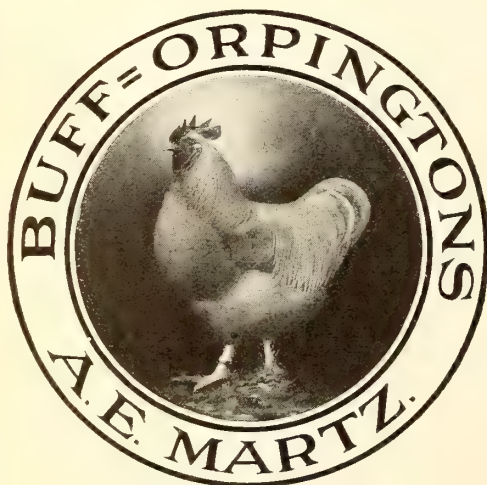
Mr. Emch is a Licensed Judge, all varieties, and has officiated at the Cleveland, Ohio, Richmond, Va., and Madison Square Garden, New York, shows. He is a successful breeder of Red Sussex himself, having won 1st cockerel, with special for color, at the recent Palace Show on a bird of his own breeding; also 1st cockerel, 1st and special pullet at Buffalo. Birds hatched from my eggs last season have made wonderful winnings at the best shows in the U. S. and Canada, and I feel that my matings this year are superior. Send for 1916 mating list, free.

F. L. PLATT

SWANTON, OHIO

Fashion Plate Buffs

Buy one of our \$10 or \$15 cockerels and improve your flock by the introduction of FASHION PLATE blood.



Buy a yearling cock bird at the same price to mate with your pullets and note the improvement in your 1916 chicks.

Pullets or hens, all raised from our trap-nested families, at \$3.00, \$4.00 or \$5.00 each—guaranteed to please or money refunded.

Eggs Eggs Eggs

Send for the new *Fashion Plate Book*; study our 30 matings, articles on trap-nesting, conditioning show birds, dry mash feeding, care of little chicks, etc. 60 pages. Free.

A. E. MARTZ

Buff Orpington Specialist and Judge

Box A

ARCADIA, INDIANA

that after hearing each of the litigants' and permitting them to introduce all matters that they termed new evidence, we beg leave to report that after a careful consideration of the same we exonerate the defendant in this action from the charge of fraud and dishonorable conduct and recommend that he return to the plaintiff the sum of Two Hundred (\$200) Dollars as an equitable adjustment."

Even tho the Executive Board presented this report to the assembly and that body adopted the same,—with the addition of the last four words on recommendation of the president,—Mr. Curtis was not satisfied. Then followed action on Friday, November 19, that certainly appears as a disgrace to the association. Altho the board and the association had accepted this report, Mr. Curtis questioned its validity, demanded to know who was author of it, and finally succeeded, by sheer force of what on the other side of the world is now termed "frightfulness," in compelling a reconsideration of the matter. The case was finally settled by the adoption of the recommendation that "F. E. Harrison return to Mr. Pennick the sum of Two Hundred (\$200) Dollars as a satisfactory settlement of the case."

All that waste of valuable time and money of the association in an attempt to pacify one angry little member with a personal grievance and of whom the officials appeared to be afraid. Afraid of what? We don't know, but there are a good many people who believe that these personal attacks are designed to put fear of what may happen to them

into the minds of other breeders, rather than for the purpose of really making the industry cleaner and better. It is a pity that so much good white paper and so much vital energy should be expended in muck-raking this case and that the "retrial" of the case in public print should continue so long after the convention.

As an example of how this case looks to poultry keepers who live outside our own country, and who read our publications, we present the following letter received from a missionary in Australia:

Editor, AMERICAN POULTRY JOURNAL:—As your books will show, I am a subscriber to your journal. I have read in other American papers things concerning the method of F. E. Harrison in dealing with customers. I should like to state my experience in reference to the above. Some time ago I sent to Mr. Harrison for four birds. I am a good many thousand miles, by land and water, distant from Michigan, but the birds came out of the coop just as vigorous and just as fresh as if picked from the

farm there and then. One of the hens appeared to be bagged down. I wrote Mr. Harrison about this and he assured me that it must have happened during the long journey, which is very possible. In his reply he said that if I was not entirely satisfied he would send me another hen and pay half the export charges. Could anything be fairer than this? Mr. Harrison's methods of dealing and his birds too, satisfy us at this part of the world. This is absolutely unsolicited by Mr. Harrison. Kogarah, Australia. JOHN T. WYNN. November 21, 1915.

The above letter is written on the regular letter head of the "Sidney City Mission, Waterloo and Alexandria Branch", bearing the printed name "John T. Wynn, Missionary," and also his signature in ink.

We have received a number of letters of similar character in reference to this case from various parts of the United States and several foreign countries. It shows that there are two sides to every question and that continued vigor-

Smith's White Leghorns

Win at the World's Fair and Chicago Coliseum, 1915! Only Eastern exhibitor of White Leghorns to get in the money at 'Frisco, November, 1915, and only breeder to win in all classes shown at Chicago Coliseum, December, 1915. The most consistent win of any exhibitor at the Coliseum. Grandest matings in the country for 1916. Catalog telling all about my Leghorns sent free. Eugene Smith, 317 Galena Blvd., Aurora, Ill.

A. A. CARVER'S 1916 Mating List R. I. Reds and Sussex OUT

Contains the greatest lists of winners in the history of Carver's Red Farm. Why not buy this season of the man who mates and grows his own winners? Our last season's egg customers have won in the strongest competition.

Rhode Island Reds

CARVER'S QUEEN QUALITY STRAIN WINS
AT CHICAGO COLISEUM

First Young Pen, Second Old Pen. Also 10 Firsts in Ohio's two big shows—Forest City and Ohio State Fairs. Caesar The Great, also won First N. Y. State Fair, defeating over 50 cocks the season. All above winners grown from our own matings. Our last season's egg customers also report heavy winnings.

CARVER'S RED FARMS

Lock Box 200

Seville, Ohio



Sussex Speckled and Red

Importers from England's Best Sussex Breeder

Now on our farm, direct from England, the Great Champion International Cock King, First Crystal Palace, London, England. At National Sussex Meet, Chicago Coliseum, in tremendous competition—First Young Pen Red Sussex, and 15 Firsts in Sussex alone at the three big fall shows.

Our Sussex customers win at Buffalo, Philadelphia, and other shows too numerous to mention. Will it not pay you to buy of one whose customers Win as well as himself?

A. A. CARVER, Specialty Breeder

Lock Box 200

Seville, Ohio

Myers' Barred Plymouth Rocks

"LADY BEAUTIFUL" STRAIN,
PULLET LINE EXCLUSIVELY

My winnings, year after year, at the leading shows of America, where the Barred Plymouth Rock Classes are the strongest, show conclusively the quality of my line.

AT THE GREAT HAGERSTOWN SHOW, 1915

My winnings there for three years are history. This year my birds won: Hen, 1, 2, 3; Pullets, 1, 2; Pullet-Bred Males, 1, 2, 3, 4, 5; Championship Special Female, Etc.

C. N. MYERS - Box A - Hanover, Pa.



FIRST PULLET
PHILADELPHIA-Dec. 1913
Owned and Bred by C. N. MYERS Hanover, Pa.

Winners of Five Championship Female Specials at Madison Square Garden, New York, 1914; Philadelphia, 1913-14; Hagerstown, 1914; Williamsport, 1914.

This unapproachable record stands unequalled. It was made at my last five exhibits, competing against all birds in the American Classes.

ous personal attacks upon a man are liable to earn for him a good deal of sympathy and friendship both at home and abroad.

One Successful Boy.

THERE is a sad lack of harmony between some classes of poultrymen. "Tis true, 'tis true, 'tis pity; and pity 'tis 'tis true." Yet, we know there are fanciers who "see red" the moment "that word 'utility'" is mentioned, and utility men who rave even worse at the mention of "fancy poultry." Better understanding among all classes, a disposition to work together for the good of all, and some real, good, honest, harmonious, team work would be better for all concerned.

One of our good friends and correspondents, but a very aggressive "utility crank," dares us to write an editorial that will demonstrate any real utility—useful and worth while—value of purely fancy poultry "some bantams for example." Well, here goes, it always was difficult for us to withstand a "dare."

This is a true story and you can verify it if you wish. We think it shows decidedly useful qualities, or utility values, in bantams in this case. Anything that contributes to the success of a growing boy has utility value. This is the story of a successful boy.

When we were at Owen Farms late last fall we met Clarence Frank Davey, a 13 years. He is the son of the superintendent, Frank H. Davey, who is well known as an expert in breeding fancy poultry and in conditioning them for the shows, and who has a good record as a competent judge. This 13-year-old boy is an ardent fancier of bantams. At the time we met him, he was in the wash room, with sleeves rolled up and wearing a rubber apron. He was washing a Black-Tailed Japanese Bantam hen. While we were there, without assistance from anyone, he put his own string of bantams into condition for a big city show. We were interested and we asked questions. Both Mr. Delano and Supt. Davey assured us that Master Davey attends to his fancy poultry business

himself, without assistance from grown ups. From sales, and winnings of prize money, this boy has put over \$600 in the bank. All made by himself with his fancy bantams. He has kept his bright eyes and quick ears open and he has learned a good many things that it would be good for some grown up breeders to know. He is learning business methods rapidly. He keeps his own checking account in the bank and knows how to, and does, handle it properly. How many 13-year-old boys do you know who can show a business record and training equal to this?

His interest and enthusiasm as a fancier of fancy bantams has given this boy something decidedly useful to do, it has taught him many things well worth while. His boyhood success will help him all thru life and will help him to successful manhood. If that isn't real utility—useful—value from fancy bantams, what is it?

Inspectors and Investigation.

IN our home town we have a most efficient selectman, who is 84 years young, who has served well and faithfully in town, county and state offices for many years, and who, today, has clearer vision and shows more practical activity in matters of public welfare than many of our younger men. He is well posted on agricultural affairs and has had wide experience. In an open letter to delinquent taxpayers, recently, he said in part:

"We are enjoying much at the public expense, in all our towns, which would have been regarded as wasteful extravagance by the people in the memory of men and women now living. To meet these extravagant measures of state, county and town, an unprecedented tax is assessed upon us, heavy and burdensome, and made more oppressive and excessive by the legislation of each year and the consequent increase of the number of commissions and inspectors, who meddle with local affairs to the disgust of every public officer or private citizen. Unreasonable orders are often given by parties ignorant of a business or of local conditions. All this adds to the tax levy and is driving business, cattle and capital out of the state. Already the cattle have been reduced by thousands and dairy men have been obliged to abandon their business on account of dictation of persons not qualified to enlighten the

most ordinary farmer concerning the most common affairs of his calling. The taxpayer has our unstinted sympathy, but we must demand the tax."

We quote the above because there is much in it that concerns everybody and that everybody should think about. Our town is not the only town where such conditions are felt. But, while in large measure we agree with all that our townsman has to say, there is a phase of the matter on which he does not touch. We have to meet present day conditions with present day methods. Our town, and many other towns, is still trying to do business in the old fashioned and now inefficient way. Take our highways for example. Instead of making one good stretch of road, well built and well finished, each year, we patch a little here and a little more there until all the money is gone and our roads are worse than when we started. We still employ taxpayers to do the road work to help them "work off taxes," some of whom have abundant means, and many of whom we would never employ at the same wage per day to do work for ourselves. Everywhere town money is wasted by incompetent and inefficient individuals, who play at politics instead of working for public improvement. We need greater attention to modern business methods in the conduct of our towns. Try to manage any business concern of equal magnitude in the way town business is managed—frequently with new and inexperienced officials every year or so—and it wouldn't take long to put that business concern into bankruptcy. In such cases a competent "receiver" might rescue a town from its own inefficiency. The remedy will probably come in the employment, at a fair wage, of a permanent, competent manager, or commission, to conduct town affairs, just as any business concern would be conducted.

As to inspectors, inspection and investigations, here is a condition where abuses and incompetence are well nigh unbearable. Inspectors that do not inspect. Inspection that is close to blackmail. Investigations that result in whitewashing the rich offender and increas-

REGALS ARE RECORD LAYERS



Regal White Wyandottes have always been a great winning strain, but this alone does not account for their wonderful popularity. It consists in the fact that they stand today as the greatest known combination of beauty and utility. They are grand layers, make rapid growth and are true Wyandottes in type. Mr. M. K. Boyer of Hammon, N. J., is one of America's oldest and best known fanciers. The following letter gives his opinion of the Regals:

My Dear Mr. Martin:

It may interest you to know that I have a pen of Dorcas hens that are doing remarkable laying. I bought them in the fall of 1913, while pullets, from a party who purchased the eggs from you. There were ten of them and for the year beginning November, 1913, they laid 1,920 eggs, or an average of 192 eggs each. This year is not quite completed, but at the rate they have been laying, I know they will not fall far short of repeating their performance as yearling hens.

For the combination of beauty and utility, I do not believe there is a strain in the world that can beat yours.

Respectfully,
(Signed) MICHAEL K. BOYER.

State of New Jersey } ss.
Atlantic County }

Personally appeared before me Geo. E. Strouse, a Notary Public for the State of New Jersey, Michael K. Boyer, who being duly sworn according to law, deposeth and saith, that the above statement is true and correct.

Sworn and subscribed to before me this eleventh day of September, 1915,
(Signed) GEO. E. STROUSE, Notary Public.

2,000 Cocks, Hens, Cockerels and Pullets For Sale, 2,000

SPECIAL—500 beautiful exhibition cockerels and pullets ready now to win the blue ribbon for you. One hundred well matured cockerels from my heavy laying Dorcas line, \$8, \$10, \$15, \$20 and \$25 each. Dorcas pullets, \$3, \$4 and \$5 each. Breeding pens (male and four females), \$20, \$25, \$35 and \$50. Stay white, vigorous utility cockerels, \$3 and \$5 each.

Eggs for hatching, Exhibition Matings, pens 1 to 20 (as they run), \$5 per 15, \$9 per 30, \$12 per 45, \$24 per 100. Dorcas Matings, \$5 per 15, \$15 per 50, \$27 per 100. Special Matings, \$10 per 15, \$18 per 30, \$25 per 45, \$50 per 100. Utility Matings from heavy laying stock, \$9 per 100, \$25 per 300, \$75 per 1,000.

Send one dime for the Regal White Wyandotte book telling all about the Regal Strain. FREE—Send for my 20-page catalog and mating list giving description of all my matings.

JOHN S. MARTIN

Box 51

PORT DOVER, CANADA

ing his profits, but which send the poor man to jail. Just so long as the appointment of inspectors and investigators remains a political matter, just so long will such abuses continue. The country is full of "inspectors" who are "not qualified to enlighten the most ordinary farmer concerning the most common affairs of his calling."

But inspection of all places where food supplies are produced is undoubtedly here to stay. The thing to work for is to have only competent men appointed as inspectors, to make them take a rigid civil service examination to prove their qualifications and fitness, to have them under Federal control, but to keep them out of politics.

It will not be so very long before we have inspectors who will inspect all poultry plants—fancy or utility—and we hope that they will prove better qualified than the kind of inspectors we now have inspecting other live stock. The action of the American Poultry Association at San Francisco, and the frequently repeated broadcast and indefinite accusations of fraud and fraudulent advertising in the poultry business, is certain to start something, and, when it starts, the investigation and inspection is likely to be far reaching. We may, any of us, be called to make a show down as to whether we are breeding with a purpose of bettering and increasing the national

food supply, or simply for the sport of winning ribbons. If the inspection comes, it will call for sanitary measures and healthy flocks, it may even make the keeping of accurate egg records—at least flock records—necessary. When we advertise layers, or any other special feature, the inspection may demand tangible proof. In the matter of many supplies sold to poultrymen it may perhaps demand to know why so many articles costing from 2 cents to 10 cents each are offered to poultrymen at 50 cents and a dollar each, when if the unfortunate was properly informed he could buy such in the open market himself at the low price. It might even attempt to draw a line between what is "pure bred" and what is "mongrel" and, if we are not mistaken, that is a subject that was tackled by Darwin and some other scientists, who were not able to make such classification in regard to domestic poultry.

If, as some would have us believe, we are so much in need of a clean up that a poultry association, representing very considerably less than one percent of the poultry breeders of the country, feels called upon to appoint a perpetual committee and make an appropriation for investigation, then it behooves everybody to put his house in order and get ready for government inspection and investigation, which will surely come.

Personally, we are inclined to believe that much of the agitation for inspection and investigation is born of a political purpose and selfish interest; mostly "much ado about nothing."

Rose Comb White Leghorns Next!

ATTENTION! Breeders of Rose Comb White Leghorns! It is your turn next. We have the following generous offer from M. C. Wilson, breeder of R. C. White Leghorns, Oil City, Pa.:

Editor American Poultry Journal:—You are striking the right chord in your breed article contests. You may announce that I will give as a first prize a trio of my "Beauty and Business" Rose Comb White Leghorns and as second prize a pair of the same, for the best and second best articles respectively on "How to Breed Rose Comb White Leghorns and Why." You to be the judge.

I consider them the breed that comes nearest perfection in both beauty and utility,—vigorous, active, bright-eyed beauties full of vim and business and so like their pictures in the Standard that it takes an expert to tell the difference. The blood of the Australian Laying Contest winners flows in their veins and they prove over 90% non-sitters.

Come on everybody, loost for the Rose Comb White Leghorns! They suit me, how do they suit you? M. C. Wilson.
Oil City, Pa., December 25, 1915.

Mr. Wilson sends with his offer a clipping showing his winnings in a recent show of the Franklin Poultry and Pet Stock Association.

Here is your opportunity, friends of

NAPOLEON

at the zenith of his colossal career
never gained a more complete

VICTORY

— over all his powerful enemies than was gained by —

Halbach's W. Plymouth Rocks

IN THE ARENA OF THE RECENT COLISEUM CHICAGO SHOW



King Champion 2d

IT WAS A BATTLE ROYAL. The Kings, the Monarchs and Rulers in the World of Wh. Plymouth Rocks had marshalled the flower of their forces in battle array at this show, so that it was asserted again and again that never had any show-room in America seen such a magnificent gathering of the truly greatest birds in White Rocks. Chicago this year was without a doubt the stage for the greatest White Plymouth Rock battle that has ever been witnessed by man. It was in this GREAT BATTLE ROYAL that Halbach's White Rocks won such a

Glorious Victory

that it will go down in White Rock history as the greatest, most complete and most decisive ever chronicled. They won—not only one first—not only two or three firsts—but EVERY first prize, except one, in the entire show. **First Cock, First Hen, First Pullet, First old Pen, First young Pen**—and they didn't stop even there—oh no!—but won EVERY second prize in the show down the entire line, except one, and EVERY third, but one. Such a brilliant victory in such a show, where only the best, the very best were in competition with each other means but one thing—that



Madam Snow-drop

Halbach's White Rocks Are Unequaled

WISE BREEDERS will take notice and will study the above with care and with thought. While this strain of birds has been the foremost winner for the past seven years, they have never been boomed and boosted as they should have been—NOW, HOWEVER

THE HALBACH STRAIN OF WHITE ROCKS

will be boomed and advertised as never before. They seem to be the best now being bred anywhere in this wide world and the world shall know it. Every Halbach White Rock is positively guaranteed to please the purchaser or the entire purchase price will be refunded. If you are interested on this basis, write me. A big, beautiful illustrated catalog sent for 20 cents. Keep this in mind

HALBACH HAS THE MOST BEAUTIFUL WHITE ROCKS

H. W. HALBACH

Rural Route 1
Dept. C

WATERFORD, WIS.

Eggs from the Best Show Birds ever produced—\$12 per 15, \$23 per 30 or \$70 per 100.

SPECIAL

300 cocks and cockerels at cut prices. Head your pen with one of these Champion-bred males at \$8.00, \$10.00, \$15.00 and \$25.00 each. Breeding trios, perfectly mated that will start you with this great line at \$15.00, \$20.00, \$30.00, \$35.00, \$50.00. Order direct from this advertisement. Get satisfaction.

the Rose Comb White Leghorns, get busy and see what you can do. The contest will be decided by the Editor of AMERICAN POULTRY JOURNAL. All articles must be in our hands by March 1st. The winning articles will appear in April issue.

Articles may contain from 800 to 1,000 words and must be written on one side of the paper only. We reserve the right to retain all articles and to publish such as we believe worthy of space. Be sure to tell how to breed them and give reasons why one should breed R. C. White Leghorns.

Send all articles marked "R. C. White Leghorn Contest" to Dr. Prince T. Woods, Lock Box 4, Silver Lake, Plymouth County, Mass. Here is a big opportunity to win either a trio or a pair well worth your effort. Get your articles in early.

More About Day-Old Chicks.

ACCORDING to the thirteenth census, in 1910, there were 5,578,525 farms reporting chickens,—over five and a half million farmer poultry breeders, showing an average of 50 fowls per farm. The average value per fowl was given as 50 cents. For nearly a million more farms no report of chickens was made. Also only farms were reported and no account was taken of chickens on farms of less than three acres or of chickens kept in cities, towns, and villages. The average number of chickens produced on these farms in 1909 was 88 each. The average value of chickens sold was 49 cents. The total number of eggs produced was 1,591,311,371 dozens. The average value of eggs per dozen, as sold, was 19½ cents. The value of poultry raised and eggs produced on these farms in 1909, is given as \$509,195,232. It is estimated that there is an annual loss of \$45,000,000 in eggs which are spoiled or broken before they reach the consumer,—mainly due to the eggs being overheated and partially incubated. Secretary Wilson in 1910 estimated the total valuation of poultry and poultry pro-

ducts for the United States in round numbers at \$750,000,000.

Just bear in mind that that estimate covers only the poultry of farms. It represents 75% of the "billion dollar industry" that we are so fond of talking about. It does not take into consideration the millions of people who keep "just chickens" in cities, towns and villages; probably these poultry keepers will swell the percentage considerably, until we find our little handful of *perhaps* 3,000 active members of the American Poultry Association is a mighty small unit in the "big poultry industry," and most of these farmer poultry raisers never heard of the American Poultry Association and know next to nothing about our poultry journals. Are we not beginning to "feel our oats" and get the "swelled head" a bit, when we attempt, as a poultry breeders' association, to dictate to this vast multitude of poultry keepers what they shall buy or sell as poultry and what price they shall pay? Can we hope to *compel* them to accept our only "recognized breeds and varieties" and descriptions of same? Isn't it possible that in assuming the *parentage* and *control* of the "billion dollar poultry industry" we are making ourselves ridiculous? It might be well to think a bit before the tail assumes the authority to wag the dog. Before now it has been customary with some thoroughbred dogs to cut off, or dock, the tail. The association may become a great power for good, if we get rid of the selfish politics that now control it, but it should first clean house and get rid of the humbug and misrepresentation within itself, before it attempts to clean house for six million or more poultry keepers who are doing just as clean and legitimate poultry business as many of our members. Rather than try to compel this big army of poultry keepers to do things our way, it would be better to set them a good example and have them *want* to do our way *because it is good*.

No one thing that the American Poultry Association has done is more absurd than the stand some officials and mem-

bers have taken against the day-old chick business. Just because some member thinks he is losing hatching egg business or because some other member's incubator doesn't work well, or isn't the success he expected it to be, is no reason for jumping hot foot on the perfectly legitimate and desirable day-old chick business. The hatcheries have come, they have proved their worth and made good and we believe they are here to stay. While there is no practical way at present to take a census of the day-old chick hatcheries, we do know that the business has made surprising growth in the past few years. The demand for day-old chicks, particularly for *low priced* day-old chicks, is simply wonderful. Most hatcheries appear to be giving good value for the price asked, this is proved by the large number of repeat orders they get. One hatchery near us received, last season, *over 80% of its business from old customers*. If it was not delivering the goods that could not happen. While there may be some cases where values are misrepresented and where the customers are lead to expect too much, we don't need to worry about them. Any hatchery that misrepresents its chicks, and that fails to deliver one hundred cents value for one dollar, will put itself out of business in a few short years,—for the dissatisfied customers will place their orders elsewhere and get others to do so too. Such hatcheries as have come under our personal observation are giving better values in pure bred chicks this season than ever before. Why? We believe it is because they realize that they must make good in order to meet competition and stay in business.

Near our home is a hatchery that uses small incubators exclusively. It has about 90 of them, with a total capacity at one sitting of 35,000 eggs. Last season that hatchery ran at full capacity from the last of January until the first of October and could not supply the demand. Eggs were bought from breeders of good stock all about the countryside. We sold that hatchery a good many eggs

Keeler's Vigorous Wh. Wyandottes



FASHION PLATE FOURTH
BRED BY FASHION PLATE 3RD HEAD OF YOUNG PEN INDIANAPOLIS 1915
BRED & OWNED BY CHAS. V. KEELER, WINAMAC, IND.

The Aristocrats of the White Wyandotte World

For 21 years my strain of White Wyandottes has been winning for me and my customers at such shows as Chicago, New York, St. Louis, New Orleans, Kansas City, Pittsburgh, Denver, etc. This is a record to be proud of and you will be getting the benefit of these 21 years of experience and breeding that are back of my birds when you purchase White Wyandottes from me. Have by far the finest and largest lot that I ever reared. Birds that will be the winners at America's best shows this fall and winter and birds that you will be proud to own.

The World's Greatest Strain

My birds not only win prizes but produce satisfactory results in filling the egg basket, laying as high as 265 eggs per year—The prize winning females are selected from among these layers.

Fine head points, wonderful size and shape, pure white, stay-white plumage, broad backs, and well spread tails combined with their wonderful laying ability, their power of reproduction and their habit of winning 1st prizes are the results of careful systematic, pedigreed line breeding. The result of my 21 years of experience I am offering to you at low prices (quality of birds and breeding considered).

2000 — Birds for Sale — 2000

Females, \$5.00 to \$25.00. Males, \$5.00 to \$35.00. Limited number, extra choice of the best breeding, \$50.00 each. Breeding pens \$20.00, \$25.00 and \$35.00. Show Pens \$50.00, \$75.00 and \$100.00. I have no cheap birds—nothing but the best—so please do not write for \$2.00 or \$3.00 birds.

Eggs—Eggs—Eggs—Eggs—Eggs—etc.

The pens that will produce the 1916-17 winners, mated December 15th, and after January 1st am ready to furnish you eggs from the 16 best matings of White Wyandottes in America. 1916 illustrated 64 page art catalog of America's finest White Wyandottes FREE. Send for your copy today. Eggs, \$5.00 per 15; \$9.00 per 30; \$14.00 per 50; \$25.00 per 100. Shall spare a very limited number from special matings at \$10.00 and \$15.00 per 15. State wants definitely and address.

Chas. V. Keeler, R. F. D. No. 11 Winamac, Ind.

ourself at about 15 cents per dozen advance above the market. The hatchery sold "broiler" and "market" chicks at \$8 per hundred, and true to name pure bred chicks at from 12 cents to 25 cents each, according to quality and quantity. That may be "huckstering," but we can't see anything wrong with it. It is a legitimate business and it helps the "poultry industry."

From figures we have concerning two large incubators, successful mammoths, we know of 1,361 hatcheries with a total capacity of 6,964,200 eggs at one sitting, or an average of above 5,100 egg capacity each. These hatcheries alone represent an initial investment of approximately three million dollars and include only a very small percent of the hatcheries in the country.

It is pretty generally known now, that the resolution offered as opposed to the day-old chick business, and making charges of cruelty in day-old chick shipments, at the Atlantic City Convention, was instigated by two manufacturers of small incubators, who feared that the day-old chick business was going to hurt the sale of their incubators. It was sprung at the last minute in hope that it would slip thru before anyone woke up to it. However, it was voted down. It is just the same sort of dirty politics and selfish interest that before now has killed many an association.

So far as the element of cruelty is concerned, the charge is absurd. Properly packed day-old chicks do not suffer any inconvenience during shipment. In fact most of them are benefitted by being kept in a dark warm box without food for from 24 to 72 hours. It is common knowledge that day-old chicks shipped a 72-hour journey will often make a better live and thrive of it than chicks from the same incubator brooded on the home plant. The cruelty charge is only made by selfish interests in hope to deceive the public. The huckstering buncombe is now being handed to us for pretty much the same reasons.

Some people have so little common sense that it is, in a sense, cruel to let them keep any kind of animals or to permit them to buy eggs and attempt to hatch them. But that would not be a good reason for trying to kill the trade in animals or prevent the sale of hatching eggs.

With the exception of five years when we bought no chickens for ourself and did not grow any at home, we have for

21 years been buying day-old chicks in quantities of from 200 to several thousand per season. *We can state positively that we find the purchase of day-old chicks very satisfactory, and that there is absolutely no cruelty in shipping day-old chicks when properly packed.* We have repeatedly seen on our own farm, and on plants of other purchasers of chicks, 50 chickens reared from the 51 to 53 chickens shipped by the hatchery. At no time have we ever known of losses of chicks—chick mortality—being any greater, under similar conditions, than where chicks were brooded on the farm where hatched. Heavy mortality is the *exception*, the unusual case, where day-old chicks are purchased.

Now if there are six million—more or less—poultry keepers who may be interested in the purchase of low priced day-old chicks every season, who is going to forbid them to buy, or forbid honest hatcheries selling chicks for what they are worth? We are against misrepresentation and dishonest dealing in every case, whether it be buyer or seller; but if, as some folks claim, some chicks, as fancy stock, are worth \$2 each,—how in the name of reason can you complain about the sale of good husky, healthy grade, or useful pure bred, chicks sold at 8, 10, 12 or 15 cents each? And bear in mind that we have bought chicks at from 12 to 20 cents each that were just as good pure bred, close to Standard stock as any we have ever seen,—and some of them came from the section of the country where according to the census the farmers produce 55.2% of all the chickens of the country. This geographic section, so reported, includes the states of Ohio, Indiana, Illinois, Michigan, Wisconsin, Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska and Kansas. New England only produces about 2.4% and the Pacific Coast about 3.4% of the farm poultry in this country, yet the average quality of poultry farms the country over is pretty much the same. Though we know that some will dispute it, we believe that the big hatcheries selling low priced chicks, remarkably true to name for the price asked, have done more to put better quality poultry on our farms than any other one influence.

It is just as well to consider these things carefully before we let a few agitators try to wreck the train that is helping us toward more and better food poultry.

DR. WOODS' NOTES AND COMMENT.

FEBRUARY.

Come when the rains
Have glazed the snow and clothed the trees
with ice,
While the slant sun of February pours
Into the bowers a flood of light. Approach!
The incrustured surface shall unbar their steps
And the broad arching portals of the grove
Welcome thy entering. —Bryant.

* * *

Hatching time. Chicks hatched the latter part of this month and in early March will grow well and rapidly if properly cared for. February and March chicks make good June roasters, that sell at a good price. The early pullets will lay well next Fall when egg prices are high.

* * *

If the new board of censors undertakes to censor all advertising—including their own personal advertising—and to investigate all competitors; wonder who will investigate and censor the work of the censors? If Association paternalism is to be the rule—where will the authority come from, or will the committee get its authority from the federal government by special grant? Having supposed, up to now, that a dog wags its own tail—we are interested to learn just how the tail is going to wag the dog.

* * *

What is a healthy, husky, livable day-old chicken worth, regardless of whether it is a mongrel or a thoroughbred—just a good hardy chick fit to grow and live and be marketed? Most folks wouldn't consider 10 cents each in small lots and \$8 per hundred too much to pay for such chicks. The market grower who buys eggs from cross-bred flocks for growing broilers and roasters, averages to pay \$5 per hundred for eggs for hatching. The flush season for eggs is close at hand, when eggs will be plenty and the prices low—except on specially selected hatching eggs. With a good farm flock of utility bred fowls, averaging fairly well in Standard points, and mated to several good males, isn't it better to turn the eggs into chicks to be sold at 10 cents each, than to sell the eggs in the market at 20 cents a dozen or less? With eggs for market selling at 20 cents a dozen or less, isn't it better to sell eggs from such a flock to a hatchery—representing them just as they are—for \$10.50 a case than to lose the extra 15 cents a dozen? If the eggs or



William Cook & Sons Originators of all the Orpingtons

Box A

SCOTCH PLAINS

NEW JERSEY

(Established 1873)

EVENTUALLY if wanting the Best Orpingtons, any variety, you will send to their **Originators**. Why not now, and avoid loss and disappointment? Our guarantee of satisfaction is backed by a reputation of 43 year's standing; this means something to you.

Lower prices and better quality than anyone else. How do we do it? By breeding thousands of birds from the best in the world, and having made the Orpingtons, we **KNOW** how to mate for the best results. This knowledge *saves you money*. Advice free.

We have won over fifteen thousand first prizes. Our birds are recognized as the finest layers in the world.

Send for our new 1916 Illustrated Catalog with history of the Orpingtons and hints on poultry keeping.

Eggs from our winners and the finest Orpingtons in the world \$20 a setting; from fine stock at \$10 and \$5 a setting. Ornamental land and water fowl for sale.

Cook's Roup and Worm powder and Laying and Condition powder, at \$1 a box, are recognized as the best.

chicks sold are represented to be just what they are—and if everybody knows or should know that you cannot buy \$2 quality for 10 cents—wherein does such business fail to be honest and legitimate? Such dishonesty as there may be in this or any other business comes from misrepresentation and misbranding of the goods sold.

* * *

Where one keeps pure bred fowls there are usually times in the Spring when surplus eggs, above those needed for sale or use for hatching, must be marketed. There are a good many people who try to buy such eggs at market prices, saying they want eggs for table purposes, when in reality they are trying to buy hatching eggs cheap. In our county we know of two grocery stores—and there are probably many more of them—that regularly check up, sort out and sell for hatching, market eggs which they buy from breeders of pure bred fowl. There is one big wholesale store within thirty miles of us that has regularly sold, at 50 cents a dozen by the case, the market eggs which they have bought every Spring from several specialty farms. Just how to stop this practice, if it can be stopped, is a problem. The grocers claim that, having bought the eggs, they have the right to sell them as they see fit. Our own solution of the problem is to keep a few pens without males to supply infertile eggs for sale as table eggs and to sell our surplus eggs from mated pens to nearby hatcheries at a 15 cents per dozen advance above market egg prices. The hatchery takes the eggs "as they run" and this permits us to use only selected hatching eggs for home use or for sale.

We know that some breeders use a needle to punch large end of egg and tear the membrane of air cell, to prevent eggs from hatching when sold as table eggs. We do not like this plan, as it injures the keeping quality of the eggs, causes them to spoil quickly and may make the eggs unfit for food. We had rather have a few dishonest customers "sting" us, than to have one honest customer feel that we had made "poor delivery" to him. Usually when sharp buyers acquire hatching eggs by such unfair methods it profits them little in the end.

* * *

Some big export shipments of dressed poultry and eggs are being made this Winter. On December 17th the White Star S. S. "Cymric" carried over one million pounds of dressed chickens, averaging 3 to 3½ lbs. each, and destined for the use of "The Allies." Fully as large a lot of dressed chickens were ordered for shipment before February 1st. Two steamers sailing from Boston December 21st carried 3,600,000 "fresh Western eggs;" of which eight thousand cases were carried on the Allan Line S. S. "British Monarch" for Glasgow and two thousand cases on the Leyland S. S. "Colonian" for Avonmouth and London. Total valuation on these eggs was stated as \$120,000, or 40 cents a dozen. In addition to the eggs these steamers carried immense general cargoes, the quantities on both ships totaling: 42,603 bushels of wheat; 89,466 bushels of barley; 42,603 bushels of rye; 600 tons of flour; 350 tons of general provisions; 8,000 barrels of apples; 500 tons of steel; 100 tons of leather; 890 horses and a large list of "sundries."

We believe in Standardbred poultry and in poultry associations and have consistently boosted both and expect to continue. But it does seem to us that a few writers on poultry subjects are taking the matter altogether too seriously and becoming afflicted with Standardbreditis in an incurable form, which will not do them or the Standardbred poultry business any good. There are still a good many good breeds that are not yet recognized by the American Standard. It is customary to develop a breed, organize a specialty club, fix on a club standard, and show the birds, before a breed or variety is considered for admission to the Standard. Just what some of our rabid anti-utility folks, afflicted with standardbreditis, are driving at is difficult to understand. One would think that a few of them believe that they can make it a misdemeanor to breed anything but breeds and varieties that are recognized by the American Standard. Carry that kind of nonsense to its natural conclusion and you will, sooner or later, have some powerful group of specialists saying, "Thou shalt breed but one breed and that must be our breed." You will also discourage the development of new breeds and varieties or the coming back of old breeds. This country is not yet an autocracy like Holy Russia; we are still a comparatively "free people" and hope to remain so. We have a notion that you can probably encourage and induce the poultry loving American public to breed poultry to a Standard, but we don't believe you can compel them to breed only "recognized" breeds and varieties to a Standard that changes, more or less, every few years.

* * *

And that reminds us, that one of our

LATHAM'S Barred Rocks WIN

BEAUTY AND UTILITY STRAIN

AT PALACE SHOW, New York, Dec., 1915 and Boston Show, 1916, the two largest of America's Great Shows of the year, winning 23 Regular and Special prizes, including first hen at both shows (on different hens), **Champion Female Special** and other high honors—winning the largest number of prizes on hens and pullets of any exhibitor at both shows, making total winnings of this strain, bred, raised, and exhibited by the owner and originator, of over **320 prizes** including **42 first prizes** and **15 Sweepstakes Champion prizes**.

Beauty and Utility Strain Leads Them All

Strong, hearty breeding birds of down-to-date requirements for the production of exhibition females for sale.

Eggs for Hatching, \$10 per Sitting

The best blood and breeding in Barred Plymouth Rocks is in the **Beauty and Utility Strain**. Buy of the originator and owner,

C. H. LATHAM

Box 145

LANCASTER, MASS.



2nd Prize Pullet Bred Cockerel, Palace Show, 1915



First Prize Speckled Sussex Hen
Chicago, December, 1915

A. C. WILLIAMS Ravenna, Ohio

BREEDER OF

Speckled Sussex and Buff Orpingtons

SPECKLED SUSSEX

At the National Meeting and Club Show, Chicago, December, 1915, we won 1st Cock, 1st and 4th Hens, 4th Cockerel, 5th Pullet, 2d Old Pen, 3d Young Pen. At Cleveland, January, 1916, we won 1st and 2d Young Pens, 1st Old Pen, 1st and 2d Hens, 1st Cockerel, 1st, 2d and 5th Pullets.

BUFF ORPINGTONS

At the National Meeting and Club Show, December, 1915, we won eleven (11) prizes out of fifteen entries. At Cleveland, January, 1916, we won 1st, 3d and 4th Young Pens, 1st and 3d Old Pens, 2d, 3d and 5th on Cocks, 3d Hen, 1st, 2d and 5th on Cockerels; 4th and 5th on Pullets.

Stock of Both Varieties for Sale. Mated Trios and Pens a Specialty. Eggs in Season. Write Me Your Wants.

good friends, an exhibitor for many successful years, a member of the A. P. A. and as good a fancier as they make 'em—is working on a little flock to develop a new and beautiful variety. He doesn't want it generally known yet what it is like and he is only letting a few close friends in on it, because, when he gets them "coming a little better," he intends to "spring a surprise on the boys" at one of the big shows. In writing this we haven't "given away" anything and we don't intend to. However, we hope that the czar of the poultry business won't send this breeder to Siberia for his audacity in trying to develop something new.

* * *

Frank P. Johnson, of Indianapolis, writing for the *Inland* of the San Francisco convention, says: "The Wednesday afternoon session was wholly taken up with discussing the report of the committee on Standard for market poultry and eggs; and while there was a vote taken on the report, it is the opinion of the writer that there is no Standard in sight."

The committee on the "Utility or Market Poultry and Egg Standard" was appointed, we believe, in September, 1911 and made its first report at Nashville convention in August, 1912. It has "reported" quite regularly ever since and various sums have been appropriated to further the work. After the expenditure of more than \$2,000 as "expense" in the interest of a "Utility Standard" for a fancier's organization, it is not very encouraging to be told that "there is no Standard in sight." At the Chicago convention members of the committee left the impression that if the A. P. A.

did not want a Market Standard, which was practically ready for publishing, several members stood ready to publish the book immediately as a private enterprise. What is the matter?

* * *

When we get that "Utility or Market Standard," if we ever do, and also have the regular "Standard of Perfection," will we have a Standard difference between "Utility" and "Standardbred" poultry? If so, what? Wonder if Judge Denny's definition of utility poultry as "fanciers' culls," "roach-backed," "crow headed," "lacking in stamina," and "stock not good enough for exhibition or breeding purposes," will be included in the work. Of course such weakly and deformed stuff never was and never will be utility poultry, or useful, but that appears to be Mr. Denny's idea of the way the term has been applied and we believe he once had a hand in editing the "regular Standard." Funny what "a state of mind" some folks can get into when they get worked up, or want to work up something.

* * *

The Standard says that "removing or attempting to remove foreign color from face or ear-lobes" and the "bleaching of any feather or feathers" is "faking." Any kind of faking debars the specimen so treated from competition in the show room. "Bleaching by means of chemicals" is especially condemned as faking and as a "harmful practice."

Without questioning the "law," after visiting a great many exhibits during quite a number of years, we would like to know just how and where judges draw the line between bleaching that is "natural" and bleaching that is "faking."

Cloth that is naturally yellowish, or that has yellowed by being kept in the dark, will bleach white if wet and placed in the sun. White fowls running to the weather and wet by the rain will bleach whiter when drying out in the sun. If they get too much sun, they sunburn. If they do not get enough sun, they do not show as good white color.

Now, no man can wash a white bird and put it in a light sunny room to dry, without bleaching the feathers. The combination of wet white feathers and the natural chemical action of sunlight will bleach the feathers. If a trace of bluing is used in the last rinse water, the bleaching process is encouraged and skillful conditioners get a better bleach—or as they term it better "condition"—but it is bleaching just the same.

It is said that of two White Leghorn cockerels, one grown on upland and the other on lowland where he can get into marsh—both birds from same stock—the upland male will have fine white lobes, while the lobes of the lowland male will be creamy or washleather color. Put the male into a coop in a dry sunny room and his lobes bleach just as white, in a few days, as those of his brother. That is a natural bleach. If the conditioner rubs those yellowish lobes with a mixture of salt and lemon juice to hasten the process, is he faking?

We certainly believe that bleaching with peroxide or other powerful bleaching agents, which make a change in plumage not at all natural to the fowl, cannot be too severely condemned. On the other hand, after seeing a good many specimens of white breeds and varieties shown "as is," just as they came from the pens, we confess we do not like to see white fowls exhibited

Young's Strain s.c.w. Leghorns

I Have No Other Breeds

Another Phenomenal Win at Madison Square Garden just closed



Cocks—1-2-3-5

Cockerels—1-2-3

Hens—1-2-3

Pullets—2-4-5

Pens—1-2

The one Strain that has made good. This is the fifteenth consecutive year that I have won best display, and from three to five first prizes at the world's supreme show, Madison Sq. Garden, New York. My strain is acknowledged thruout the world as being the standard for all the Leghorns of all America. They have been line bred for heavy egg production alone, since 1853, and the show birds have simply been chosen from the record layers, a point worth noting.

Hundreds of grand breeding Cockerels for sale that will improve your stock both in laying and exhibition qualities. Why not come to headquarters and get the best.

Mating List FREE.

Box E-12

D. W. YOUNG, Monroe, N. Y.

Speak for Themselves



Photograph
unretouched



SHEPPARD'S FAMOUS ANCONAS

Are the standard by which all Anconas are judged. They speak for themselves. At the leading show of the world, Madison Square Garden, New York City, Sheppard's Famous Anconas have won three times as many first and second prizes as all other Ancona breeders together, during the past nine consecutive years, which proves beyond a doubt that they are

The World's Best

At the 1916 Madison Square Garden Show, we won eight First prizes, seven Seconds, six Thirds, six Fourths, five Fifths. Now is the time to send your order for some good hatching eggs, or some breeders and get ready to win next year. Prices reasonable.

Champion Layers

Sheppard's Famous Anconas are greater winter layers and have a wonderful record of **256 average** for a flock.

Your order will have my personal attention—write at once—Catalog on request. Stock, Chicks or Eggs for sale.

H. Cecil Sheppard

President International Ancona Club

See my ad on opposite page
and front inside cover.

Box M-2, BEREA, OHIO

unwashed. Dirty white feathers are not attractive and an unwashed white bird, in the high lights of an exhibition hall, is not an attractive sight. Yet, if you wash them in water with any good soap, and dry them where it is light, or where they get sunlight, you certainly do bleach the plumage as well as take the dirt out of it. We have read a lot of discussion on the subject of bleaching, but we have never seen any satisfactory explanation of how and where the line is to be drawn between faking and fair practice.

* * *

We all know that cleaners use gasoline to cleanse clothing and so improve or strengthen the natural color of the cloth. It is not so generally known that some exhibitors of parti-colored and dark colored fowls, while they do not wash their birds, do sometimes rub down their feathers with a sponge dampened with gasoline to take out surface dirt and brighten up the plumage. As this is a cleansing process only and does not change the color, it cannot be considered faking. Anyhow the Standard does not mention it.

* * *

However, we have never been able to get a satisfactory decision on what is and what is not faking. When you simmer down all the talk on the subject and get close to the bottom of the brew, you gain the impression that whatever your informant does in the preparation of his birds for the show room, is just "conditioning" pure, simple and undefiled; but what his competitor does, tho it be practically the same thing, is just "rank faking." Tho it shouldn't, the point of view, and the particular shoe that pinches, is apparently what makes the difference. Even the man who breeds them right, grows them right and shows them right, gets accused of faking—generally unjustly so—and we are of the opinion that there is a lot more *talk* about faking than there is actual faking. Most of the talk is inspired by jealousy, envy, and just plain disappointment. The "good loser" is still a rather rare bird, but it sure is a pleasure to meet him.

* * *

At the New York Palace Show Judge D. Lincoln Orr, was passing around a printed circular letter, signed by himself, as follows: "As you are an official of the American Poultry Association. I wish to call your attention to the fact that your licensed judges are ignoring the weight clause disqualification. I wish to ask if you think it right to ignore that clause and then to follow so closely the down between the toes disqualifications, also foreign colored feathers, speck of foreign color on earlobe, and several other foolish minor defects? I am bringing this before you for your honest help, as I feel that a great harm is being done when the law is only half lived up to. Personally I am opposed to all disqualification except deformities."

We have never been able to see the sense or justice of some of the disqualifying defects mentioned in the Standard. Defects that no sensible breeder would, for even a moment, consider as barring the specimen from the breeding pen, ought not to disqualify the specimen. But we do believe that all deformities should disqualify and that diseased specimens should always be disqualified. Good health and sound constitutional vigor ought to count for

more than it does in the show pen. It is a sorry spectacle to see judges trying to dose a bird into fit condition to be judged, when the bird is almost too sick to stand, or to see ribbons on specimens that show chicken-pox, or severe head colds and rousy eyes. Yet, it may be noticed quite often. If a bird, no matter how good, gets sick on the way to the show, or ill from eating his bedding, before being judged; that is a great misfortune for the exhibitor—one which calls for honest sympathy—but the sick bird should not get a place in the ribbons.

* * *

We understand that the A. P. A. is to have an examining board to examine applicants for judge's licenses and that it has also voted to insist upon all licensed judges applying the Standard and obeying the law in making awards. If this is lived up to, it ought to prove a good thing. However, it does very little good to print good resolutions and rules in the "Proceedings," and other literature, and then forget all about the matter. Every law, or rule, good or bad, should be enforced. If when enforced it proves to be a poor or bad rule or law, then it should be repealed or properly amended. Only, to enforce rules or laws it is necessary to have authority. Also there should be equal justice for all.

* * *

Do you like chicken and eggs? We do, any way the Mrs. cooks 'em and there's a variety of ways—simply surprising how many. But we want our eggs "with the cackle on." For breakfast we get them right off the top of the basket that was brought in from the coop the night before. We insist that an egg to be at its best must—when broken—stand right up in the pan and look you right in the eye. If every family would eat eggs and chickens the way our little family of four does, there would be some poultry boom. For the year 1915 we used a total of 104 chickens and 213 doz. eggs right in the home, and not so many visitors either. That represents a total valuation, at cost, of \$131.25 for eggs and chickens. Good wholesome food at moderate cost, that helps to cut down the well-known "high cost of living." Yes, we do like chicken and eggs—the home grown kind—but we don't take kindly to the hotel and restaurant table variety. No embalmed chicken and ancient eggs for us, thank you.

* * *

So much is said in breed articles about the fine tender flesh and good eating qualities of the breed or variety under discussion, that it may be well to say here that fine quality meat and toothsome-ness are not confined to any one breed, but are characteristics of nearly all breeds when properly grown and fed. The manner in which the chickens are grown, the food and the feeding, and particularly the final finishing, have much to do with the eating qualities when cooked. And, by the same token, you can spoil the best chicken ever grown by poor cooking. We have had unusually fine chickens all Summer and Fall—and these have included birds of seven different varieties. So far as breed goes there was no noticeable difference in the quality, or flavor, or juiciness of chickens in good table condition. The Leghorns "went by" quicker than the American or Asiatic birds—by this we mean they did not hold their soft meat condition as long and after

ANOTHER GREAT RECORD

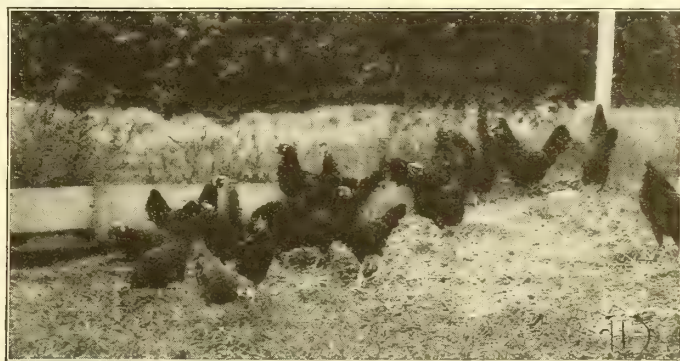
Three Generations of Sheppard's Famous Anconas

Looks Mighty Good, Doesn't It?



These are the birds that are world famed as winter layers. They have the wonderful record of 256 average for a flock. That is why my customers call them egg machines.

The pullets in the picture below were hatched from eggs laid by my birds in picture above, when parent birds were only four months, fifteen days old.



Here are the pullets that laid when four months, seven days old. Their eggs hatched these wonderful youngsters shown below, producing three generations in less than one year, making a record that stands alone.



Sheppard's Famous Anconas are bred to make good, both in the show room and as layers. They have made good for me. They will do the same for you. Stock, Eggs or Baby Chicks for sale. Send for our 86-page catalog which will be mailed upon request.

H. CECIL SHEPPARD, Box M-2, Berea, Ohio

See my ad on opposite page and front inside cover.

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THE WORLD'S BEST LAYERS

This is our sixteenth year in trapnesting and selecting breeders from high producers of S. C. W. Leghorns. We breed contest layers from our 52 pens of dams with records of 200 to 268 eggs. We can furnish a large number of Hatching Eggs and Day-Old Chicks from these pens. Also have many pens of yearling hens with records from 150 to 200 eggs at prices that will astonish you. Our catalog will tell you how to make them grow and pay. It's free for the asking.

LILY WHITE POULTRY FARM

J. F. Best, Manager

SAGINAW, MICHIGAN

The World's BEST BIRDS were Gathered at MADISON SQUARE GARDENS

1916

It was just another proof of the quality of our

White Orpingtons

Our pens are now mated, containing these Garden winners and many others. Write us today.

THE MORRIS POULTRY FARM LEBANON OHIO

CHICKS 400,000 FOR 1916

From winners at the largest shows and heavy layers for several generations. Ten times more fresh air goes through our incubators than any other system giving you greatest vitality in chicks. S. C. & R. C. White Leghorns & S. C. Brown Leghorns \$10 per 100; \$5.50 per 50; \$3 per 25. Barred P. Rocks, White P. Rocks, S. C. & R. C. Black Minorcas, White Wyandottes, S. C. & R. C. Reds, S. C. Anconas \$12.50 per 100; \$6.50 per 50; \$3.50 per 25. Our ninth season. Safe arrival and satisfaction guaranteed. **Cleveland Hatchery, 7916-18 West Madison Avenue - Cleveland, Ohio.**



CAMPINES-Blue-Orp's-SUSSEX

Winners at Hagerstown, Frederick, Norfolk, Washington, Chicago and Madison Sq. Garden. If interested, please write me your wants, mentioning breed. Eggs very reasonable.

Dr. J. H. Prudhomme, Desk A, Thurmont, Md.

Cline's White Plymouth Rocks

State Fair winners and excellent layers. Matured, healthy, vigorous birds of good quality at reasonable prices. Eggs for hatching. Write your wants.

Mrs. Walter Cline

Versailles, Mo.

"hardening" they were less tender and the meat dryer. But while still "soft" these little Mediterraneans were fine eating. There is, however, a considerable difference in the eating qualities of individuals in the same variety. We believe that our White Rock cockerels this season ripened better than ever before. They proved unusually fine roasters and were highly commended by all who had them. But one nine-pound cockerel stands out beyond all his fellows. That was the bird we had roasted for Sunday dinner on December 19th. He had been running in the pen with a flock that was being specially fattened and had had about four weeks of finishing. He was just ripe for killing, was dry chilled in a cold room, hung just the right time before going to the cook, and he was cooked just right. We never had capon that was any better than that cockerel—fattened evenly right thru the meat to the bone and plump and well meated all over. Even when finished as cold chicken, not a bit of dryness to the meat and tender enough to almost melt in the mouth. We have some Faverolles, Cornish and R. I. Reds that we expect to have equal that White Rock in table qualities; they show skin and flesh of good fine texture and they are getting the right sort of finishing. The thing that counts is to force them just enough, kill them—after a 24-hour fast—at just the right time, thoroly chill them and let them hang in a cold room for about three days—then it is up to the cook.

* * *

We have some friends who keep poultry but "don't care for chicken except at your house." They complain that their chickens are "dry and leathery." Well, it isn't the fault of the variety, for we have some of the same sort of chickens and our's are soft, juicy and tender meated. It is partly because of the feeding and care and partly because of the manner of killing, cooling and cooking. If you want the best results in the finished product, you have to work for them and do it right all thru the process. We use almost the same ration for fattening as for growing and laying, but it is fed more often and the birds get less exercise, altho they have room to be busy enough to stay in good order. The main thing in feeding is to have them eat plenty but never get "stalled" by overeating at any one time. They should always be eager for rations, but never too hungry and always go to roost with full crops.

* * *

We frequently read about the "dust bath" that "to be effective the dusting material must be very light and dry." While that information dates back a good many years and has been many times repeated—it positively is not true. A "dust bath" should be dust in name only. Light, dry, powdery dust is a very poor thing to have in a poultry house. It makes conditions favorable for and contributes to all sorts of diseases of the nose, throat and lungs. It is a mistaken notion that it is good for fowls to breathe dust laden air. Yet, if you pass an open-front scratch shed on almost any day, you will note the dust rolling out in clouds like smoke. Fowls like a "dust bath" that is a bit moist. Watch them in out-door weather and you will note that they invariably select a "dusting place" where the earth is moist. In open-front houses in Winter they will dig holes in the earth floor for "dusting" purposes, up near the

front where the earth is damp. A good many poultrymen are now using crude petroleum oil, or "hen roost oil," which sells for about 7 cents a gallon by the barrel, to sprinkle floors and lay the dust. On earth floors it is put on with a sprinkler and raked in. Used to take the dry dustiness out of the "dust bath" this crude oil is a good thing and it makes the bath more effective. Use only enough to keep down the dust.

* * *

In small chickens and fowls, more particularly those which are kept housed on board floors or confined in small yards, various forms of neuritis—not infrequently fatal—may be observed. Among the symptoms which indicate disease of the nerves, or of some part of the nervous system, are fits or cramps in chicks, the twisting of the head and neck back upon the body, twisting and deformity of the toes, some forms of leg weakness, trembling jerky walk, paralysis of the neck muscles, paralysis of wings or legs; "the yellows" a term applied where there is alternate yellowing and redness of the face and sometimes of head gear, the yellow color usually being difficult to detect unless the fowl is taken unawares, as startling brings redness; emaciation, either a sudden or gradual loss of flesh; and death, usually following loss of flesh, leg weakness and some form of paralysis.

While these symptoms of nerve disease not infrequently occur in connection with some other disease, particularly intestinal diseases or diseases of the digestive organs, we believe that the prime cause in most cases is *deficiency in nutrition*. Fowls in confinement, and kept on wood, cement, or old dirt floors, are wholly dependent upon the poultry keeper for their food supply. The bird on open range has an opportunity for balancing its ration that the confined bird cannot have unless the keeper is careful to supply the necessary variety. Too much sameness of food, too much carbohydrates; too much much-milled, much-polished and cleaned, cracked grains, that have been kiln dried to preserve them, all tend toward deficiency in nutrition and consequent disease of the nervous system.

All clean, sound, live grains as garnered by the farmer, all fresh raw greens and vegetables and partly cooked fish and meats, all insects, worms and greens obtained on range, contain vital principles—living cells with life giving properties—and such foods, in sufficient variety, will prevent neuritis or disease of the nerves.

A steady diet of screened corn grits, or of cleaned, polished or scoured wheat, if fed to confined fowls or chicks will soon result in putting them out of condition and later bring on symptoms of deficient nutrition. In the outer husk or bran of both corn and wheat are vital principles that are necessary to life of the bird. The confined birds are absolutely dependent upon their keeper for their food supply. That is why it is necessary to furnish a good variety of wholesome food, some meat food and plenty of greens—and the meat food should contain mineral matter (ash) to make up for any deficiency in the other foods.

Oyster shells help out the ration because they contain digestible mineral matter and a variety of nerve and bone feeding elements. Sprouted oats, fresh clover and even cut clover hay contain vital principals and necessary ash. But



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OUR 12TH SEASON SHIPPING CHICKS

WE furnish chicks hatched from the best Utility and Exhibition Stock. Our stock all have free range, thus insuring you good strong chicks.

Now is the time to place your orders for March and April deliveries.

	Per 25	Per 50	Per 100
S. C. W. Leghorns.....	\$2.75	\$5.00	\$10.00
S. C. B. Leghorns.....	2.50	5.00	10.00
B. P. Rocks.....	3.00	5.50	11.00
R. C. I. Reds.....	3.25	6.50	13.00
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Partridge P. Rocks, 50c each; can furnish only a limited number of this variety.			

We also have a coal burning Colony Brooder that will successfully brood your chicks. Be sure to get our FREE illustrated catalog and price list.

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1st Cock, New York State Fair, 1914

Hatching Eggs and Day-Old Chicks

from the

"Million Egg Farm"

5000 S. C. White Leghorn Eggs per day



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You can get fresh S. C. White Leghorn hatching eggs shipped when you want them from eggs laid in a single day. These eggs are laid on the RANCOCAS POULTRY FARM by choice, selected, fully-matured hens, bred for high egg production. Every breeder of our big, husky Rancocas strain—"The Laying Line"—has the style and finish of Standard Leghorns.

100 Per Cent Fertility. Over 1,100 customers in 41 States bought 146,000 hatching eggs from us last season. This year we can supply 200,000 hatching eggs—everyone with a guarantee behind it of 100 per cent fertility. No orders too small or none too large—all customers get the same quality and service. Don't wait until the rush season is on, but let us book your order NOW.

Day-Old Chicks—Delivery Guaranteed. A live chick guaranteed at your express station for every one ordered. All chicks sold are from eggs laid on our own farm and hatched just like the chicks we keep to supply our own flock. Order early, for even with our enormous incubator capacity and large flocks of layers, we cannot always fill orders unless booked ahead. Order today, and make sure of getting chicks when you want them.

Send today for free booklet, giving prices of S. C. White Leghorn hatching eggs and day-old chicks, produced at Rancocas Poultry Farm—"The Million Egg Farm."

Prize Winners. We breed winners for such shows as Madison Square Garden, where we won first pen February, 1915; New York State Fair, winning the Harriman Cup for best display of Leghorns; Buffalo, winning four first prizes; and winners of high awards at Chicago, Boston, Philadelphia and St. Louis. These winners and others just as good are mated in special pens. Our special mating list gives full description of these winning birds. This booklet is of great value to anyone interested in exhibition breeding. Send for free mating list.

RANCOCAS POULTRY FARM Box 638 Browns Mills, N. J.

Rockdale White Plymouth Rocks

Win highest honors at Des Moines, Ia., Dubuque, Ia., Madison, Wis., Springfield, Ill. **HEAVY LAYERS.** Fine quality in cockerels and pullets, \$2, \$3, \$5, \$8, \$10. Satisfaction, or money back. 15 years with White Rocks. Kindly write your wants.

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MINORCAS GIANT STRAIN

S. C. Black have again proven their superiority by winning at the Cleveland, O. Fair, 4 firsts, 2 seconds, 1 fourth, and champion ribbon. At Indiana State Fair, December, 1915. At Coliseum show, Chicago, December, 1915. 3d cock, 5th hen, 5th pullet. Mating list. JOHN L. BROWN, 1515 W. 7th St., Anderson, Ind.

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The Marvel Colony Brooder

For large or small flocks
Coal-burning, Self-regulating.

An efficient heater constructed of heavy castings, with AUTOMATIC control of the drafts. The POUCH FEED is a new and distinctive device.

Send for our free booklet describing the UP-TO-THE-MINUTE methods of brooding with coal burners; the FRESH AIR SYSTEM; the safety, convenience, labor-saving and economy in operation. Learn to brood without loss, making THREE PRODUCERS where only one chick grew before. Let us know your incubator capacity and the number of chicks you brood at one time, we can advise you how to get best results. A one-cent postal brings a prompt response.

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Pape's Single Comb Black Minorcas have maintained their reputation as the most profitable egg laying and prize winning strain for 21 consecutive years thruout America. At the Chicago Coliseum, 1915, won 1-2-4 Cock, 1-3 Hen, 2 Cockerel, 1-3-4 Pullet, 1 Old and 1 Young Pen. This verdict demonstrates the results of our 1915 efforts.

Get into work that is pleasant and that pays well.

Am offering cockerels that will improve any flock; hens and pullets laying; mated pens; eggs that will hatch and chicks at introductory prices. Guarantee covers good hatches and stock on approval. Write your requirements. Our 1916 mating list and assistance are free.

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WE ARE IN EVERY SENSE BREEDERS. WE ARE NOT A HATCHERY.

After years of careful study to perfect our stock we have accomplished our aim and today our birds are excelled by none for vigor and productiveness. Our own breeders possess the qualities to produce livable chicks and unsurpassed layers.

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Write us and we will astonish you with the prices we quote considering the quality we offer. We guarantee the safe delivery of chicks, the fertility of our eggs and that both will be the product of our own breeders; and, furthermore, that all customers must be satisfied when dealing with us. Remember, if you order from us you receive the benefit of years of care and study given to perfect our stock. You will not receive hatchery stock. Send us your order early to insure delivery date. We guarantee to fill orders when wanted or to promptly return your money. Write for free booklet, describing our methods and stock.

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THE ZERO SAFETY LAMP

in your incubator or brooder will insure your hatch. No danger of overheating or explosion. The only correct lamp. Has been successfully used for many years. Order one today and be on the safe side. Delivered anywhere in the United States, \$1.35 each, or three for \$4.00. Send for our catalog of Sanitary Poultry Supplies, showing our Chick Feeders, Chick Fountains and other appliances, with delivered price sheet.

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"NARROW BARS" Barred Plym. Rocks

Win at Chicago Coliseum 1915 in strongest competition this show has known. Grandest Matings in country for 1916. Catalog telling about my quality birds for asking.

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WHITE WYANDOTTES

We won at Bridgeton, N. J., November, 1915, 1st and 3d cock, 1st and 3d hen, 1st and 4th cockerel, 1st and 2d pullet, and 2d pen, two large silver cups for best display of Wyandottes. Also Philadelphia, Baltimore and Pittsburgh winners. Our birds are big winter layers, with records of 200 eggs and over; free range stock in the finest condition.

Eggs from all pens, including all of our Philadelphia and Bridgeton winners, \$2 per 15, \$5 per 50, and \$8 per 100. Chicks from the same pens \$5 per 25, \$9 per 50 and \$18 per 100. Send for free catalog.

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Choice Cockerels and Pullets for Sale

Bred from our prize-winning pens. Farm raised. Every bird guaranteed. Prices reasonable. Eggs for sale from best matings. Write today.

MRS. C. E. CLARK

Route 7

CARROLLTON, ILL.

where hay is given some fresh raw greens or vegetables must be supplied to get best results. To be of greatest value oats should be sprouted where they get sunlight and the sprouts are green. We like them best when the sprouts are less than an inch and a half long. One reason that home ground chick foods generally give better results than the screened and cleaned commercial foods, is that they contain all of the grain and it is fresh ground so that the vital principles are not lacking. If you will bear these feeding pointers in mind and put them into practice, you will have far less of the "mysterious" chicken and fowl diseases to contend with. Deficient nutrition and irritable and inflamed nerves, cause much trouble in confined flocks of all ages and generally pave the way for easy infection with "germ" diseases. This is not only true of poultry but of all animals, including the human animal. How much care and attention do you give to what your flocks eat?

* * *

Frozen or frosted combs and wattles are common at this season, whether you house your birds in closed buildings or those with open fronts. Usually the birds in the closed houses get the worst of it. Freezing of the head gear is largely a matter of poor condition of the bird, and dampness with sudden changes in temperature. Now and then a healthy, vigorous specimen in good order, will get frostbite from undue exposure, especially to freezing winds, but generally there will be no severe frostbite under ordinary circumstances unless the bird is out of condition, from indigestion, faulty nutrition, too much handling, poor cooping, etc. Exposure to severe cold winds when head gear is wet with drinking water—particularly warm water—is a common cause of freezing. For treatment, thaw out the frosted parts by rubbing with cold petrolatum; then apply a mixture of one ounce of sweet oil with one teaspoonful of spirits of turpentine. Apply daily. Do not take the bird into a warm room. Warmth will cause trouble.

* * *

We were talking recently with a market poultry grower who raises chickens and ducks. He said: "I don't care what the price of first feed is, I want the best. The little birds don't eat much of it anyway and the cheapest feed I can use is the one that raises the most birds. In every chicken or duck I can put into the market there is from 30 to 50 cents for me. The losses nearly all come in the first ten days and a dead bird is a dead loss. A dozen little birds saved will pay for a whole lot of feed. When you grow 'em in thousands it counts big. Another thing, profits depend a whole lot on getting all the little birds started right. When I go into a brooder house and see a man taking out dead birds by the hodful, I always think how he is burning up dollars of the season's profits, maybe just because he was trying to save cents on first feed. A feed that will start 'em right is worth all of 10 cents a pound to any grower, and it needn't cost more than half that."

* * *

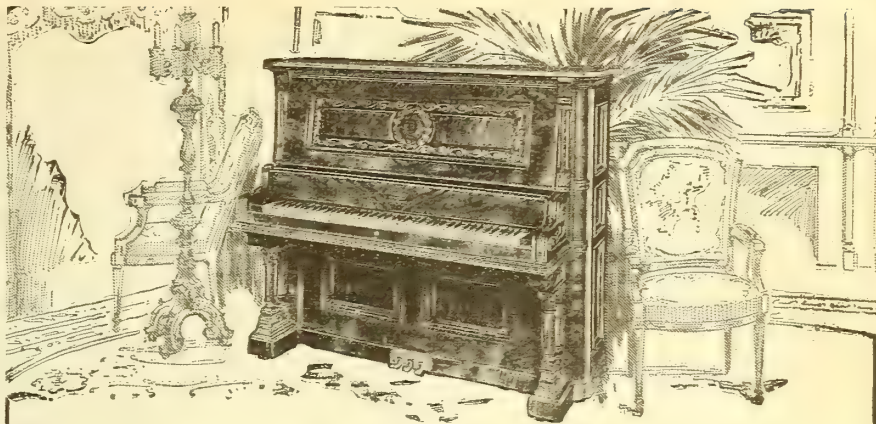
For a good starting food for chickens and ducks, we find that a good many growers are using rolled oats and cracker crumbs, about equal parts bulk, rubbed up moist and crumbly with hard boiled infertile eggs. This is fed sparingly, what they will clean up quickly.

Roller oats are also fed plain and bran is fed in an open hopper. Oat sprouts are fed cut fine, and later the whole sprouted oat is given. Plenty of good oats are believed to be necessary to make good bone and flesh and to give a bird good frame and sound body. Good rolled oats can be bought in 90-pound bags and by the barrel for about 31-3 to 4 cents a pound, and, results considered, are cheap at the price. When one lives near a cracker factory, good broken crackers can be had for about \$1 per barrel, and common crackers can usually be bought anywhere at from \$3.25 to \$3.75 a barrel.

We believe that more chickens and ducklings are killed by spoiled food, and mismanaged feeding, every season than die of disease. Well hatched chicks out of healthy stock are naturally hardy, and they often make a live of it in spite of a lot of abuse and careless handling. Indigestion and defective nutrition kill more young than do germ diseases; in fact, the disturbance of digestive organs is the thing that makes conditions favorable for "germ" invasion. If our experimenters would put more time into explaining the need of wholesome foods, what good foods are and what are unsafe foods, and given more attention to demonstrating how to breed, feed and manage for health—instead of working up so much general alarm about diseases and the "frightfulness" of germs—it would do a lot more good for poultrymen and for the cause of more and better poultry.

When an American doctor cleaned up the plague in a terror-stricken section of China and typhus in Serbia, he did not do it by starting a scare and yowling about disease germs—the people were scared enough already. He just demonstrated common sense hygiene and sanitation. Insisted on burning up those dead from disease; made everybody clean up and keep clean, enforced clean quarters, clean wholesome food and drink, and clean living. Under such conditions the disease had to quit the job and leave, and it did. Use a little common sense.

Edward Brown, in the *Smallholder* (England), has an article, "The Truth about Intensive Poultry-Keeping." He calls it "bird-cage poultry keeping" and says that "despite many trials it has never been known to pay." He believes that "backyarders," who have limited space, do their own work, and consider themselves "compensated by the pleasure obtained" may carry out intensive methods on a small scale with success. Smallholders who simply intend to winter a flock of layers may also benefit by intensive methods, if they keep expenses low. But as a business proposition it is "useless and could never be profitable."



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Wyckoff's S. C. White Leghorns

Acknowledged Everywhere the World's Greatest
Laying Strain. Unequalled in Standard Qualities

Remember that we are the **ORIGINATORS** and for 35 years specialty breeders of the justly celebrated **WYCKOFF** Strain of S. C. White Leghorns, the most profitable strain of poultry in America today. Place your orders at headquarters and make no mistake. **EGGS FOR HATCHING** in any quantity from the grandest of matings. Send for catalog and testimonials from satisfied customers from all over the world.

C. H. WYCKOFF & SON

AURORA, CAYUGA CO., NEW YORK

The editor of *Eggs and the Intensive World* (England), vigorously opposes Mr. Brown and says: "The statement 'despite many trials it has never been known to pay' is an absolute and willful untruth."

Mr. Brown says further: "So far as I have been able to learn, no one, either in this country or America, has made such an enterprise successful in production of eggs for market, which is the actual test. Such as have shown a profit have done so by finding an outlet for stock birds, eggs for hatching, and day-old chicks, or by selling their plants to someone else."

Mr. Brown appears to be getting unduly pessimistic. Any egg farm will necessarily—at some time—have fowls to dispose of, and, if chickens are grown

to renew flocks of layers, there will be surplus here to sell also. In the flush season there will be opportunity to sell hatching eggs and day-old chicks at better profit than in selling all eggs for market. These things are all a legitimate part of egg farming. The manufacturer looks after the sale of his surplus, his "scrap" and waste, and by-products, quite as keenly as he does that of his finished product. If he does not, he does not deserve to succeed. Except under favorable conditions there is not very much profit in the exclusive production of market eggs; the production cost is too high compared with the selling price and to date the producer has practically nothing to do with fixing the selling price. Too many people do not know what their eggs cost them,

and many farmers look upon eggs as something to be gotten rid of for whatever they will bring.

Intensive methods have made it possible for a good many blacklottery to get a great deal of pleasure out of poultry and to secure good food for the home table at moderate cost. Large flock intensive methods have worked well in the production of market eggs. Where only a limited amount of land is available, intensive methods permit keeping good sized flocks, if pullets are bought each Fall and kept solely for egg production. Just how well it pays, depends upon circumstances but quite a number of people are making their living, or increasing their income, that way. With all intensive methods, in order to succeed, it is necessary to observe clean-

Get The Brooder of Proven Efficiency

Experiments With Untried Devices Are Costly

The Newtown Giant Colony Brooder—the first successful brooder of this type—has demonstrated by *performance* that it merits your utmost confidence.

Thousands of these wonder-working machines have "made good" in the hands of professional and amateur poultrymen in all parts of the world. Under the widest range of conditions—in all climates—in all types of houses—the Newtown has given universal satisfaction. And *that is proof* that it is best for you, too! The

Newtown Giant Colony Brooder

has been as closely copied by other concerns as patent laws permit. But the imitations are years behind the original. The Newtown still leads and represents absolute perfection in brooding devices.

Why should you "take a chance," risk your valuable chicks in brooders of unknown quality, when you can just as easily get this "sure thing" machine? Remember—the Newtown has passed the most rigid tests—has made good—is no longer in the experimental stage—is the favorite of the men who know.

Some Valuable Newtown Features

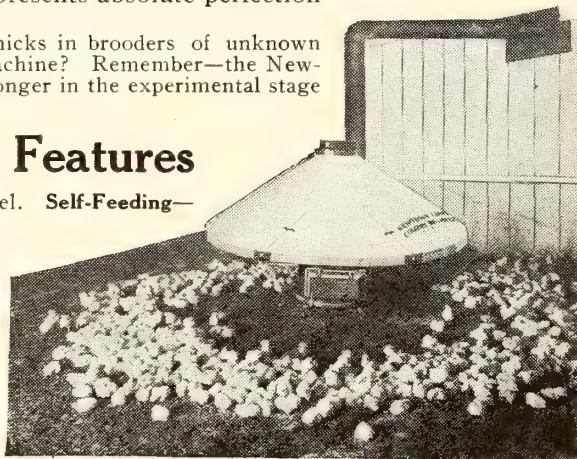
Coal-Burning—uses the cheapest and most satisfactory fuel. **Self-Feeding**—coal reservoir requires filling but once each day or two. **Self-Regulating**—automatically holds the desired temperature. **Safe**—no danger from fire. **Inexpensive to Install**—operates in any building. **Durable**—built for long-time service. **Efficient**—"raises the best chicks, the most chicks, with least labor and at lowest cost."

Your dealer should carry the genuine Newtown. If he doesn't we will ship direct. Write today for big Catalog—FREE.

NEWTOWN GIANT INCUBATOR CORP'N

21 Warsaw St.

Harrisonburg, Virginia



Market your eggs in the city with

Sefton Egg Shipping Boxes

Parcel Post and Express have brought the city market for fresh eggs right to your door; Sefton Egg Shipping Cases have made it possible to supply the demand. They're strong, light; do the work at the lowest rates.

You ought to have our booklet on express and parcel post for shippers of fresh eggs; helpful—no cost.

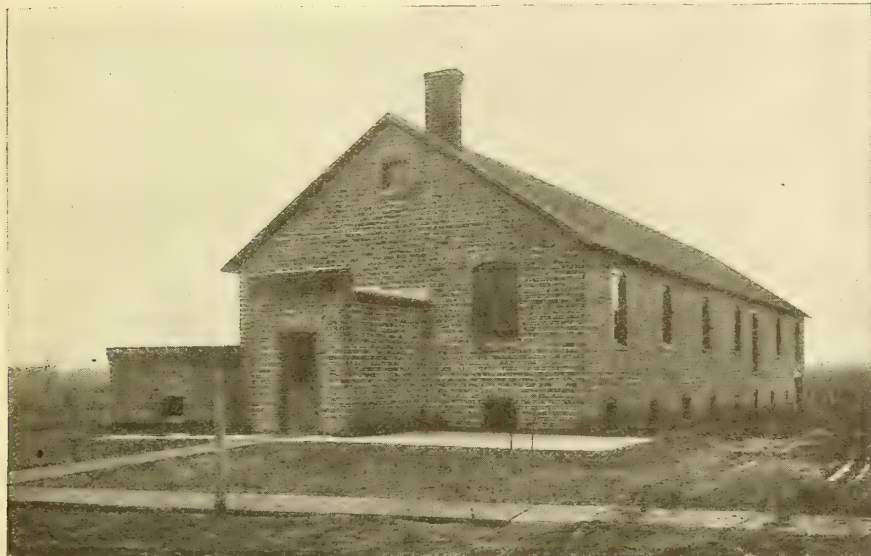
"Ask your paper jobber"

The Sefton Mfg. Co., 1329 W. 35th St., Chicago, Ill.



liness and, where runs are used, to keep the soil well cultivated and frequently cropped. The failure of intensive methods generally results from attempting to breed birds so kept, from continuous use of the same soil without cropping and sweetening it, from uncleanness, lack of sanitary measures, and an attempt to keep stock for too long a time under such conditions. Here, as elsewhere, bad management, is respon-

of intensive poultry keeping are not practical because too much labor is required but there are also intensive methods which effect a saving in labor. Intensive poultry keeping simply means keeping large flocks on a small area. Here, as with other methods, much will depend upon the *individual* who employs it. We prefer farm-range for poultry and an alternation of crops and poultry to keep the soil sweet; but for those



View of the 20th Century Hatchery, New Washington, Ohio. This building is 44x110 feet. The cellar is used for incubator rooms and the second floor is the office and show rooms and storage rooms.

sible for failure. If one is to breed poultry for best results, we do not care for too free use of intensive methods. The stock birds should have farm range for at least part of the year and the young stock should be grown on good range. But if one can secure farm-bred, farm-reared breeding or laying stock each season, or can farm out stock birds thru the Summer, there is no good reason for failure of intensive methods, provided sanitation is good and the management is sensible. Some sorts

who cannot have considerable land area and must be content with small flocks, there is an opportunity to make good use of intensive methods. Where there is the will there is a way, and, where health laws permit, anyone who enjoys working with fowls and who has a bit of land available, who will observe cleanliness and manage well, can get a great deal of satisfaction, pleasure and some cash profit out of intensive poultry keeping on a small lot.

S. C. BUFF ORPINGTONS

WINNERS

ALLENTOWN:

Ck. 1-4; hen, 1-2; ckl. 3-4; pullet 1; pen 1-2.

PHILADELPHIA:

Hen 1; pul. 1; ckl. 2; ck. 4; pen 2, (5 entries)
N. Y. State Fair, Hagerstown, Washington,
Grand Central Palace.

LAYERS

Established a 229 Egg Record in Third
North American Egg Laying Contest.

Led National Missouri Contest, November, 1915. Won cup for month.

CHOICE BREEDING STOCK

200 Pullets, \$2, \$3, \$5
Trios, \$10, \$15. Pens, \$15, \$25.

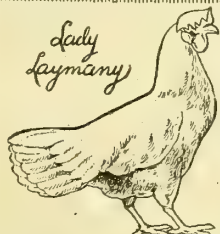
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TODAY
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EGGS FOR HATCHING

\$1.50, \$3, \$5, \$8, \$10
From Finest Pens Ever Mated

OLD FORGE BUFFS are noted for their wonderful Type, Color and Egg Producing Qualities.
(Satisfaction is absolutely guaranteed)

OLD FORGE POULTRY FARM, SPRING GROVE, PA.



LEGHORNS ARE MONEY HENS

Of all breeds of poultry none will stand the test of record keeping better than S. C. White Leghorns. They are recognized everywhere as the commercial hen. They lay well in winter, and cost little to raise. They produce more eggs and meat per pound of feed than all other breeds. They are winners in all of the egg-laying contests. Among White Leghorns, Yesterlaid Range-Raised Laying-Leghorns are the strain supreme, so recognized by twenty-three State Institutions, and Experiment Stations, which purchased Yesterlaid stock or eggs. All eggs or chicks have ancestral blood records of: Laying at 4½ months—261 eggs a year—443 eggs in two years. Free literature tells why White Leghorns are profitable for farmer, city man and fancier.

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Again We Lead

At the Great

Madison Square Garden, 1916

We did not exhibit Buff Orpingtons, as our Mr. Rawnsley was judging that class.

Speckled Sussex

WON

1-3 cock, 1-2 hen, 1-3 cockerel,
2-3 pullet, 1-2 pen.

At the Chicago Coliseum, December, 1915

which was the Sussex Club Show of America, we won 1st and 2nd cockerels, 1st and 2nd pullets, 1st old pen, 2nd and 4th young pen, 2nd and 4th cock, 2nd and 5th hen, and Grand Champion Cup best display; cup for best colored male; cup for best colored female; club ribbons for best cockerel and pullet. Winning 76 points in best class Sussex ever shown in America without question.

Limited number high class breeders and show birds for sale. Our egg matings headed by the best line of male birds in America.

Our matings will be headed by the two best male birds in the world—bar none. Our Buff Orpington cockerel, "King of the Coliseum," (a bird we bred and raised), and our Speckled Sussex cockerel, "Tommy Atkins," won champion trophy at Great Dairy Show, England, over all varieties.

At National

Buff Orpington

Club Show, Chicago Coliseum
December, 1915

Here are our winnings on S. C. Buff Orpingtons: 1st cockerel, 1st hen, 1st pullet, 1st, 3rd and 5th old pens, 1st and 2nd young pens.

SPECIALS

Color special for best colored male in show. Grand champion cup for best display, cup for best 3 old pens, cup for best 3 young pens. Winning 74 points all told, and 5 club ribbons. Magnificent, massive, rich Golden Buffs for sale in cocks, cockerels, trios, pens, at "live and let live prices."

Pens now mated containing these wonderful winners. Write us for list and prices, we can serve you.

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5173 N. High St. Columbus, O.

Horticulture for Poultry Keepers

Conducted by Thos. F. Rigg, Iowa Falls, Iowa.



IF you have not pruned the aged apple trees, do so this month if the weather will permit. The younger trees, especially those set out last season should not be pruned until just before growth starts in the Spring.

I used to cut back the raspberry canes (the bearing canes) at this time of year, but I do not do so now. I found that if the pruning was delayed until the leaf buds were showing, I got a far better crop. If the later pruning is practical, one can select the bearing wood to advantage and maybe this is the chief virtue of late pruning of the raspberry.

* * *

Senator H. M. Dunlap, the Apple King of Illinois, reports that the last season's crop of apples in his home orchard of 120 acres was 73,890 bushels. Even at the low price of \$1 a bushel, this would mean an average of \$615 per acre net.

* * *

Once in a while we find a man with a large acreage of early apples who is making his orchard pay. W. S. Perrine, of Centralia, Ill., reports that he received from \$500 to \$800 per acre from his Duchess and other early apples. But this orchard is "one in a thousand."

* * *

It is surprising how many old and neglected orchards will respond to intelligent care and treatment. Six years ago Joseph Weston, of Belton, Mo., bought an orchard that was certainly a run down one. The trees were then nine years old and had been given no care whatever. By pruning, spraying and other up-to-date orchard practice, he has put this orchard in shape so that 3,000 trees in 1915 produced 20,000 bushels of No. 1 apples, mostly Jonathan and Grimes Golden. These apples sold for \$4.05 per barrel. Mr. Weston is a city business man. When he started in with this orchard he had "no settled convictions" about orcharding. And because of this he was unhampered in his application of business principles in handling the orchard.

* * *

I like to look out upon the orchard and berry patch these days. There is about two feet of snow on the level and the trees and vines are mulched by this covering which nature has provided. It looks good to me.

* * *

I am greatly interested in your department and always read first what you have to say. I am writing to ask your advice about planting fruit trees in yards for poultry, with runs 20x120 ft. I wish to have a clover sod and would like to know what fruit trees would do well on black sandy soil with sod all around for the poultry, except a space of about 2½ ft. square. My plan is this—I am going to use the Woods' type house 20x20 ft., built 120 ft. back from the road. Next Spring I will plant oats between the road and poultry houses and then seed down to clover. Then the Spring of 1917 I thought I would plant a row of plums, etc., right down the center of the run. What other fruits would do well besides plums cultivated for a space of 5 ft. around them, and what varieties of each kind of fruit do you think would do for

my section (Genesee County, Michigan)? What variety of sweet clover would you recommend for poultry and that would not run all over the farm? C. M. Dutcher, Michigan.

Inasmuch as the runs in which Mr. Dutcher proposes planting the fruit trees are twenty feet wide the trees must stand twenty feet apart, at least one way. This is too close together for most varieties of apple trees. There are two methods which he can follow, either of which will produce good results. The Wagner, Duchess, King David, Yellow Transparent, and Liveland Raspberry apple trees are all upright growers and will be good for his planting 20x20 ft. I would suggest that he plant the Wagner, King David and Liveland Raspberry. There is another way and one which would be as well. Plant Delicious, Baldwin and Black Ben apple trees in these runs. Plant them 40x30 ft. That is, a tree in the center of pen No. 1. Skip pen No. 2 and plant a tree in center of pen No. 3, and so on, placing the trees thirty feet apart the other way. In the runs skipped, plant as fillers the varieties first mentioned. These trees will come into bearing before the Delicious Baldwin and Black Ben varieties and can be cut out when the trees begin to crowd in the future. At that time the permanent trees will be large enough to give sufficient shade to all the pens. I would recommend this second plan. I would not plant more than one of the pens to plum trees. There is no money in plums and the plum curculio is hard to control. In fact the plum should not be planted near apple trees. I do not know why Mr. Dutcher is going to wait until the Spring of 1917 to plant his trees. Why not plant these trees in the Spring of 1916? I would not attempt to maintain a sweet clover pasture for the fowls. I do not believe it can be done where the land is in comparatively small yards. The very best thing for such yards is a blue grass sod.

Mr. Dutcher asks "what varieties of each kind of fruit do you think would do well for my section." Genesee County is not in the most favorable fruit belt of the state. However, the apples as mentioned above will do well there. In cherries, plant the Montmorency. Pears, the Lincoln, Vermont Beauty and Seckel, with a few Keiffers. In plums, Mammoth Gold, America (America is particularly free from brown rot), and Omaha. In grapes, Worden, Concord, Diamond and Moore's Early. In gooseberries, Downing and Houghton. In currants, Diploma and London Market.

* * *

I am a very interested reader of the American Poultry Journal and have watched your department for something that would fit my case. I have lived in town and worked at my trade until three years ago when I moved out on a farm owned by a relative of mine. I liked it fine and did very well for one who had to get experience as he went along. Now this farm has been sold, and as land here is high priced I did not attempt to buy, as I thought it would put me too much in debt. Lately I have been reading

all the literature concerning Eastern farms, especially Southeastern Pennsylvania and Maryland, and I have been wondering if a man, strong and in good health, and not quite forty years old, were to go there and purchase a fully equipped farm, say at from four to five thousand dollars with about twenty-five hundred or three thousand to pay down. Would he, in your opinion, have a chance to pay for it in the next ten years? My idea is an acreage of about seventy-five to one hundred and twenty acres, with at least fifty acres good tillage land and the rest in pasture and possibly some timber. I should expect to do general farming, keep as many cows as I could handle, sheep and a few hogs, and, of course, I would expect to pay especial attention to what was advisable in that particular locality. People here tell me that you cannot raise corn there except a kind of flint and that the land has been fertilized until it does not take effect any more. I cannot quite think that, but would appreciate the advice of an unbiased person. Hence I am asking your opinion.

What part of Maryland is best adapted to general farming and what is the nature of the soil? R. P. Beevins, Ohio.

I think Mr. Beevins is doing well to consider purchasing a farm in the East or Southeast. In my opinion these sections offer more inducements to men situated as Mr. Beevins than do other sections of the country. I feel sure that the next land movement will be east and southeast. The East and Southeast have the best markets of the country at their doors. The soil is adapted to the growing of all grains, and as a grass land proposition they are far ahead of the West. The fuel question is solved very easily, for coal is cheap and timber abundant. Mr. Beevins need not think seriously about the land not being able to raise good corn. It will. There is extra good strong land in Maryland and some poor land, of course. The climate there is delightful and I am sure my correspondent will be able to pay out on a farm there, bought as he says he will buy, should he decide to locate there. I would suggest that Mr. Beevins make a careful inspection of the Piedmont section of Virginia. Personally I prefer this section to Maryland. I believe that the Piedmont section of Virginia holds today more inducements for farmers than any other section of the United States. It possesses about everything one can reasonably desire—magnificent scenery, fine climate, long growing seasons, fertile lands, and abundance of pure, soft water and plenty of timber. For the general farmer and fruit grower, it is a land of promise and fulfillment. Nowhere else in all America do people live as well as they do in this section of the Old Dominion.

The climate of Maryland is mild for the latitude, singularly so in the low-lying Eastern counties. The soils all approach a sandy loam in character. Tobacco, wheat and corn are largely cultivated in the Northern and Middle counties. That portion contiguous to Delaware emulates that state for great crops of peaches and other fruits.

* * *

One of the most profitable apple crops in Northwest Arkansas in 1915 was pro-

Great Crops of STRAWBERRIES and How to Grow Them



A KELLOGG SUPERB EVERBEARING PLANT

Photographed September 15th, lower leaves removed to show berries. 14,000 hills may be grown to the acre. Each hill will produce about two quarts of big, fancy berries. 20 to 30 berries fill a quart box. The price ranges from 30 cents to 45 cents per quart. Fruits continually from June until November. Our free book tells the rest.

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THE best asset on earth is a share of the earth. Grow strawberries the Kellogg way and get your share. Strawberries give quicker returns and bigger profits than any other crop. The profit from a single acre of strawberries in a single season will pay for two acres of high-priced land. Many men and women are now paying taxes instead of rent from the profits of strawberries.

Only a few years ago Mr. E. D. Andrews of Lansing, Michigan, was without a dollar. He now owns a fine home all paid for, valued at \$4,000.00. Just two acres of Kellogg pedigree plants—the Kellogg way—that's all. He says so.

At LaGrande, Oregon, Mr. Z. Chandler started with less than one acre of Kellogg plants. In five years that

short acre made him just \$4,390.50. And now Mr. Chandler is paying taxes instead of rent. He sent for our free book, made the try for a home, and won.

These are only two of the many reports that come to us. These men are just common everyday fellows. What they have done you can do if you will make the try. Send for our free book and let us help you earn a productive home.

Kellogg's Everbearers

Kellogg's everbearing varieties fruit continually through June, July, August, September and October. Heavy frost does not check their fruiting. Three months after plants are set you will be picking big, red berries. These plants produce large, fancy berries in great quantities. Many growers are making at the rate of \$1,000 to \$1,200 per acre the same season plants are set. These everbearers will produce more dollars per square rod and do it in less time than anything you can grow. Our FREE book pictures and describes seven of these varieties and tells you how to grow them.

Kellogg's Free Service

When you buy Kellogg Pedigree plants you also get Kellogg's Service. Whether you grow strawberries for home use, pleasure or profit you get full benefit of our thirty-three years of strawberry experience. We never are too busy to answer questions. Our Service Department is on the job six days in the week and 52 weeks in the year. We make big money growing strawberries and we enjoy helping others make money. Strawberry growing offers a grand opportunity. The world is hungry for delicious strawberries. Let us help you satisfy the world's strawberry appetite. Get our FREE book and read the letters from both beginners and old-timers, who tell about the benefits derived through our Free Service Department.

Strawberry Garden

A Kellogg strawberry garden will supply a large family with all the delicious strawberries they can eat summer and winter without cost. You can have strawberries picked fresh from the vines from June until November and canned berries, preserves and jam throughout the winter. Why should you pay a high price for common strawberries when you can grow the Kellogg kind right in your own garden or back yard? Our free book describes garden selections adapted to all soils and climatic conditions and shows beautiful pictures of the Kellogg gardens growing on the home grounds of customers. Get this book and learn how to supply your family free with the most delicious fruit that grows.

Great Crops of Strawberries and How to Grow Them

This is the best book on strawberry growing ever written. Worth its weight in gold. Used in agricultural colleges. Fully explains the Kellogg way of picking two big crops from each acre each year—a big profit in the spring and a bigger one in the fall. Tells how to make rain when the sun shines and how the wonderful Kellogg Pedigree plants are developed on the great Kellogg plant farms in Michigan and Idaho. Step by step every detail of the work is explained in a plain and practical manner. Beautifully illustrated and easy to

understand. You must read this book to appreciate its real worth. You will be delighted with the beautiful engravings of strawberries, strawberry fields and strawberry garden scenes made from actual photographs. This book gives you 64 pages of strawberry facts and 33 years of strawberry experience. A pleasant surprise and something you should know on every page. Get this book and learn the Kellogg way. Make \$500 to \$1200 per acre. The book tells you how. It is FREE.

R. M. KELLOGG COMPANY, Box 325, Three Rivers, Michigan

duced in the orchard of L. D. McClain. He secured 1,500 barrels from 550 trees of this yield but 190 bushels were culls. He sold the entire crop of No. 1 apples for \$2.50 per barrel, or \$3,750 for the entire product. At these figures, each tree produced \$6.81 worth of apples. Of course Mr. McClain took the best care of his trees to prevent insect and scale ravage.

H. B. Rollins, of Wisconsin, who is



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Over 700 illustrations of vegetables and flowers. Send yours and your neighbors' addresses.

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Buy direct from our catalog at wholesale—it's the safe way, you are protected by the absolute guarantee of the actual grower—Fruit Trees and Ornamentals grown in our Nursery, the largest in New York, are the finest we have ever produced in 32 years. Send today for big free wholesale catalog illustrated in colors.

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and other small fruits, shrubs, plants, vines, etc. Not cheap stock, but a rare chance to get the best at wonderful bargain prices. Don't miss it. Sent free on request.

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SAMPLE OUR SEED
Three earliest vegetables in cultivation for 10c. One packet each, Robinson's Earliest Tomato, Earliest Round Red Radish, Earliest Lettuce, 13c to new customers. Regular price 30c. CATALOG FREE.

C. N. Robinson & Bro., Dept. 66, Baltimore, Md.

thinking of moving to Missouri, wants me to give him the name of some apple grower down there who has actually "made money" in producing apples. There is Dr. C. R. Woodson, of St. Joseph. In 1915, he sold his apples in his large Buchanan County orchard for \$10,000, which he says is a net profit on the crop of 75 per cent. Write to him. He can and will tell you how to make money in raising apples in Missouri.

Still the letters are coming in from gentlemen who tell of the good apples they used to eat when they were boys, but which cannot now be secured. J. E. Ford, of Utah, writes me about an apple "called Pilot, which I used to get in Virginia when a boy and which I think was the best apple I ever tasted." The Pilot is still grown to a limited extent in Virginia, but it is not a commercial sort. It is not considered nearly so good as many other kinds. I think Mr. Ford could raise this apple in the mountains of Utah. He can get Pilot scions by applying to the Virginia State College.

Howard Merrill, of Nebraska, writes for information regarding the proper outfit for evaporating apples, saying he will thus use a part of his crop hereafter. I am unable to give him the desired information. I have no practical knowledge of this branch of fruit disposal. New York state evaporates more apples than any other state in the union. Mr. Merrill can secure all the facts in the case by writing the State Horticultural College at Ithaca.

Since the deep snow which fell a few days ago, the English sparrows are feeding on the buds of the plum trees. The ground beneath two Milton trees is as brown as though carpeted. The sparrows seem partial to the Milton buds. I suppose this is because the buds of this variety are larger than the buds on the trees of other varieties. Of course this work of the sparrows will injure the trees and about destroy the crop for next season, but I know no way to prevent these birds eating the buds. Next Fall after the plum trees drop their fo-

liage I am going to experiment with Sulfocide. I know that when the trunks of fruit trees are painted with a mixture of three parts Sulfocide and one part water, the rabbits will not injure the trees. I am going to spray the plum trees next Fall with the mixture as stated. I believe this will save the buds from the attack of the sparrows. Maybe it will not and perhaps it may injure the buds, but I shall try it on a few trees all the same.


Yesterday the sun shone brightly and the day was as warm as a day in early Fall. The bees were out in force and how they did enjoy this flight. This means that they will be content and able to withstand the several weeks confinement which they will be subjected to, now that Winter is fairly upon them. If they can have three or four flights during the Winter, they will be all right.

I want to urge the planting of more currants and gooseberries. These fruits are very profitable, are easily cared for and the vines are perfectly hardy. They are the most profitable fruits on our place, and altho I have a large planting and have set out bushes each Fall for several years I have never been able to supply the demand at twelve and one-half cents per quart.

In answer to N. S. Gardner, of Minnesota: Yes, Jonathan grafted on a bearing Hibernial will make a good union and the tree will bear abundantly. I am of the opinion that it will not withstand the severe Winters of Northern Minnesota, however. I believe the Northwestern Greening will be valuable for you. Here in Central Iowa and further south it is not desirable. It is giving good crops in Northwestern Iowa. This apple does not do well on the black prairie soil of Iowa, but on your lighter soil it ought to produce well and the fruit ought to be a far better keeper than it is with us. I advise you to plant but few Arctic apple trees. I have four trees of this variety now twelve years set. They have not produced one bushel of apples so far.

Poultrymen! Berries Will Pay Your Feed Bills

Plant your waste spaces to Allen's true-to-name berries. People are always willing to pay top prices for them. Allen's plants are hardy, healthy and heavy-bearing. Many varieties adapted to your soil, climate and markets: Packed fresh for shipment; We have over 300 acres in small fruits exclusively. Our 1916 Book of Berries describes each variety, and tells clearly how to select, plant, etc. 48 pages, 12 plates in natural colors. Send for your free copy today.



The W. F. Allen Co., 106 Market St., Salisbury, Md.

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The Fortieth Anniversary Edition of Burpee's Annual, the Leading American Seed Catalog for 1916, is brighter and better than ever before. It offers the greatest novelty in Sweet Peas, the unique "Fiery Cross", and other novelties in Rare Flowers and Choice Vegetables, some of which cannot be had elsewhere. This book of 182 pages tells all about proved and tested Seeds. It is mailed free. A post card will do. Write today, mention this publication.

W. ATLEE BURPEE & CO., Burpee Buildings, Philadelphia

MADISON SQUARE GARDEN



MADISON SQUARE GARDEN

POULTRY SHOW

"TWENTY-SEVEN years," so said one of the "old timers" reading the legend in the decoration of flags and bunting at either side of the "Old Garden," and, said he, "I haven't missed a single show, the year wouldn't be quite complete without the Old Garden Show." There is a deal of sentiment about the Madison Square Garden Poultry Show, it has grown to be one of the land marks of the poultry year, and when the rumors come, as they often have, that the Garden is to be torn down to make way for a more modern structure, there are a good many fanciers who feel that they would greatly miss the regular annual meet at the "Old Garden." Madison Square Garden still stands, and it is likely to be with us for many more poultry shows, but when the old building gives place to a more modern and more desirable exhibition hall, as it will some day, it is probable that Garden sentiment and Garden shows will continue.

The 27th annual exhibition of the New York Poultry and Pigeon Association, in Madison Square Garden, New York City, December 31st, 1915, to January 5th, 1916, was much like the shows that have gone before it. The weather was fine and mild. The poultry entries numbered 2909. The attendance, tho not quite up to previous years, was good and the interest shown by visitors was above the average. Secretary-Manager Charles D. Cleveland has reason to feel that his work has accomplished a well-merited success.

There was one feature of this show that we do not believe was appreciated to full value by some of the exhibitors. We refer to the educational exhibit made by the United States Government, the lantern slide lectures, the poultry moving pictures, and the special lectures by representatives of our Agricultural Colleges. This "poultry institute" work was one of the most valuable, helpful and desirable features of the whole show—yet we heard a few short-sighted "fanciers" commenting unfavorably about it. They objected to the picture show and the lectures, because the entertainment in the concert hall "drew people from the floor, where they might, otherwise, have done business and made purchases." One or two of the supply dealers also voiced a similar objection. What "penny-wise, pound-foolish" piffle.

If you only knew it, Mr. Silly Fancier-Dealer, that educational exhibit, those moving pictures, and institute lectures, mean big values to you and to all concerned in every branch of poultry culture and in the trades which make goods to sell to poultrymen. Mr. Cleveland deserves the congratulations of everybody for his enterprise and good sense in securing such a valuable addition and attraction for the Garden Show. It creates and stimulates interest in poultry, helps people to be more successful in poultry culture, and draws people to the show that otherwise might not even consider attending. Why, Mr. Fancier-Dealer, that educational exhibit

Twenty-seventh Annual Exhibition of New York Poultry and Pigeon Association, December 31, 1915, to January 5, 1916.

By Prince T. Woods, M. D.

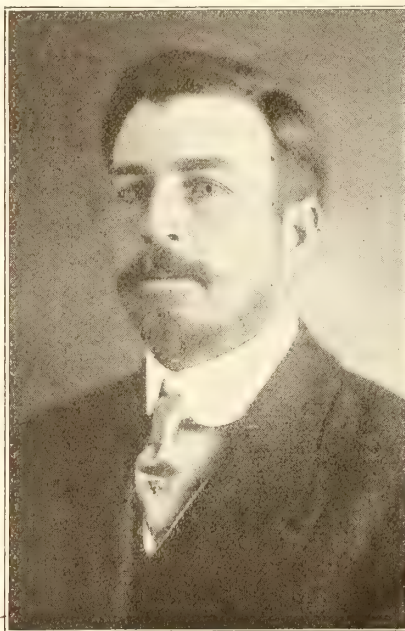
didn't draw customers away from you; it actually made new customers for you, developed new interest in poultry and made new poultry keepers. We attended a number of the lectures, we went three times to see the United States Government's poultry moving pictures, not only because we enjoyed seeing the pictures over again, but also because the interest manifested by the audiences appealed to us, and we wished to study the growth of that interest. Believe us, those poultry moving pictures and lantern slide lectures ought to be shown at every poultry show in the land, and, more than that, in every big Grange meet and in every district school. Such instructive exhibitions will help every legitimate business interest that is in any way connected with poultry culture.

One fancier-breeder sat with us thru the moving pictures, shown by the United States Department of Agriculture under the management of Harry M. Lamon. These movies included a practical demonstration of leg banding, hens working the trap nests, marking the eggs, hatching pedigree chicks in gauze bags to make identification positive, banding and toe-marking the chicks, weighing the chicks, the embryology of

the chick from the first day until hatched, every stage shown clearly in sharp, snappy, practical moving pictures of unusual interest. As we left the hall that fancier-breeder said: "I'm glad you brought me up here, I wouldn't have missed that for a ten dollar bill; I've learned something worth while." The government "poultry movies" have only made a beginning, but it is a worthwhile beginning, and we hope to see the idea grow and develop until we have many more such practical demonstrations in all branches of poultry husbandry and the pictures shown everywhere.

The lecture course conducted by the Agricultural Colleges gave much that was of value and held the interest of large audiences, but some of the talks were a bit over the heads of the people and over-technical and dry for beginners or the average run of poultry show audiences; but there is progress and improvement here that tells of better work and greater interest to come in the near future.

Another great drawing feature was the exhibition of the Bureau of Animal Husbandry, United States Department of Agriculture, in charge of Harry M. Lamon, Robt. R. Slocum and J. Wm. Kinghorne. In this exhibit were shown 23 oil colored enlarged bromide photographs of popular breeds and varieties of poultry. There was also a cooped exhibit of 20 live birds representing pure blooded fowl kept at the Government Experiment Farm, at Beltsville, Md. Each coop carried the name of the variety to which the specimen belonged and a statement concerning the purpose for which it was being kept or bred. In this exhibit were splendid quality specimens of S. C. White Leghorns, Buff Leghorns, Barred Plymouth Rocks, White Plymouth Rocks, S. C. Rhode Island Reds, White Wyandottes and S. C. Buff Orpingtons. An egg testing table, showing, by means of candling, the difference between fertile and infertile eggs, at temperature of 103 degrees, of 24, 36, 60 and 90 hours incubation, was the center of a great deal of interest and had a good crowd of visitors lined up most of the time. Practical working models of the government trap nest, brood coop, colony house and long laying house, together with a fattening battery were shown. These models were all well made in detail, showing manner of construction clearly that an amateur could easily learn how to build. Bulletins were also supplied giving plans and specifications of the equipment shown. Two stands showed 60 colored transparencies—photographs colored and lighted electrically—presenting various views of the Government Experimenting Farm and some fowls bred there. There was also an egg exhibit showing eggs of ostriches, several varieties of poultry, turkeys, guineas, and ducks. And also a display of mounted feathers taken from several pure-bred varieties of poultry. This educational exhibit undoubtedly drew



Charles D. Cleveland, Secretary New York Poultry, Pigeon and Pet Stock Ass'n.

(Continued on Page 279)



IMPERIAL
"RINGLET"

UNRETOUCHED PHOTO

BARRED PLYMOUTH ROCK

FIRST PRIZE PULLET

MADISON SQUARE GARDEN, - 1916.

bred and owned by

E. B. THOMPSON — AMENIA, NEW YORK

This beautiful bird was winner of first Barred Rock pullet, Madison Square Garden, 1916. The unretouched picture tells the story of Thompson Quality much better than a book full of mere words. Go over this picture carefully, friend reader, then you will understand why Thompson's Ringlets have attained the position they now hold in the poultry world. Bred and owned by E. B. Thompson, Amenia, N. Y.—P. K. W.



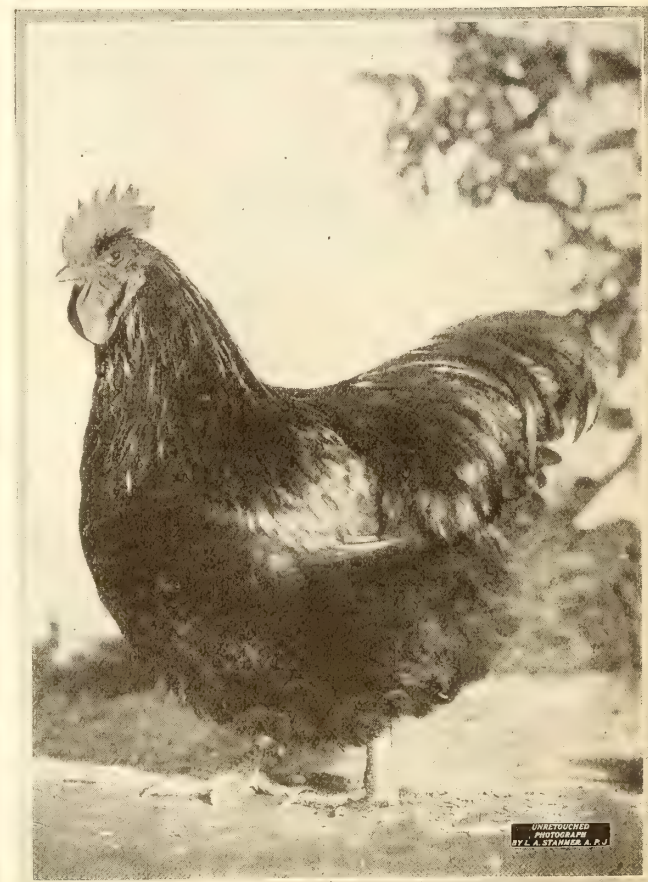
Second S. C. Buff Orpington cockerel, Madison Square, 1916. Good type and color thruout. Owned by Owen Farms, Vineyard Haven, Mass.



First S. C. Buff Orpington hen, in strong class, Madison Square, 1916. Owned by Owen Farms, Vineyard Haven, Mass.



First S. C. Black Orpington pullet, Madison Square, 1916, bred and owned by Foxhurst Farm, Lime Rock, Conn. Without doubt one of the most beautiful specimens of this breed that has ever been produced. —P. K. W.



A magnificent bird and many an admiring eye was directed toward him. As is true with all Foxhurst birds, he has that brilliant green sheen color. Winner of first S. C. Black Orpington cockerel, Madison Square, 1916. Bred and owned by Foxhurst Farm, Lime Rock, Conn.

THE
GREAT LAYING
AND
EXHIBITION
QUALITIES OF
YOUNG'S STRAIN S.C.W.
LEGHORNS
ARE THE TALK OF
THE WHOLE
WORLD



UNREPRODUCED
PHOTOGRAPH
BY C. STANLEY, N.Y.



Single Comb
White Leghorns
First Prize Pen
MADISON Sq. GARDEN
1916
Bred and owned by
D.W. YOUNG
MONROE, N.Y.

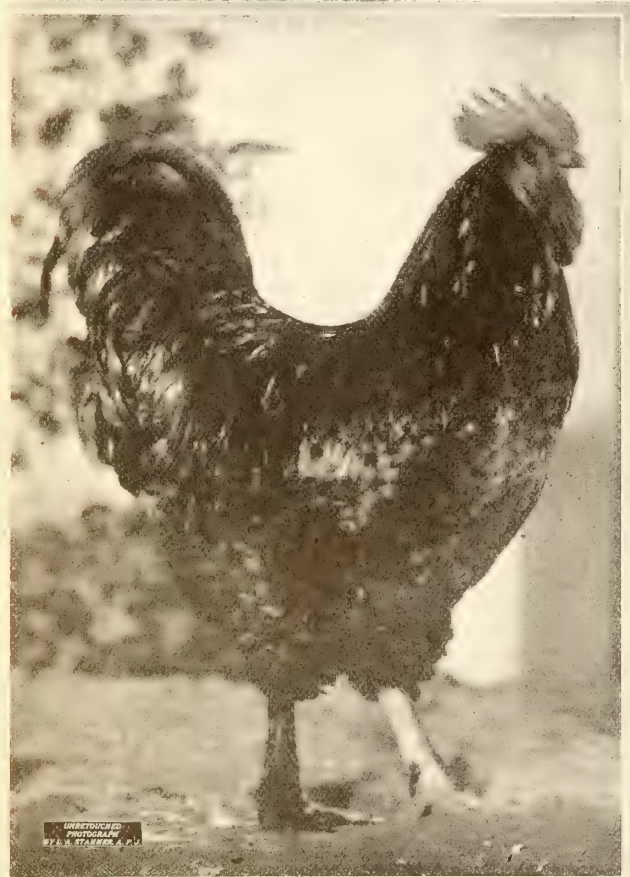




First S. C. Buff Orpington cockerel, Madison Square, 1916. A beautiful bird in every way. Owned by Sunswick Poultry Farm, South Plainfield, N. J.



Male bird from third prize pen, R. C. Rhode Island Reds, Madison Square, 1916. Good type and color thruout. Owned and bred by Harold Tompkins, Concord, Mass.—P. K. W.



Note the large erect well spread tail, characteristic of well bred Black Langshans. His coloring is the perfect greenish black, winner of second cock, Madison Square, 1916. Bred and owned by M. S. Barker, Thorntown, Ind.—P. K. W.



As near perfect as it is possible to breed them, was the comment made on this male bird from first prize pen, Madison Square, 1916, Black Langshans. The females were of the same wonderful type. Owned and bred by M. S. Barker, Thorntown, Ind.—P. K. W.



A true S. C. White Orpington in color and shape. Second cockerel, Madison Square, 1916. Owned by Morris Poultry Farm, Lebanon, O.



First S. C. White Orpington cock, Madison Square, 1916. Strong class, but an easy winner. Owned by Morris Poultry Farm, Lebanon, Ohio.



A winning White Wyandotte male at Madison Square, 1916. Bred and owned by Arthur G. Duston, South Framingham, Mass.



Male bird from first prize White Rock pen, Madison Square, 1916. Females of the same fine type and color. Owned by Rancocas Poultry Farm, Brown's Mills, N. J.—P. K. W.



First White Rock hen, Madison Square, 1916. An easy winner in a class composed of very high quality. Owned by Rancocas Poultry Farm, Brown's Mills, N. J.—P. K. W.



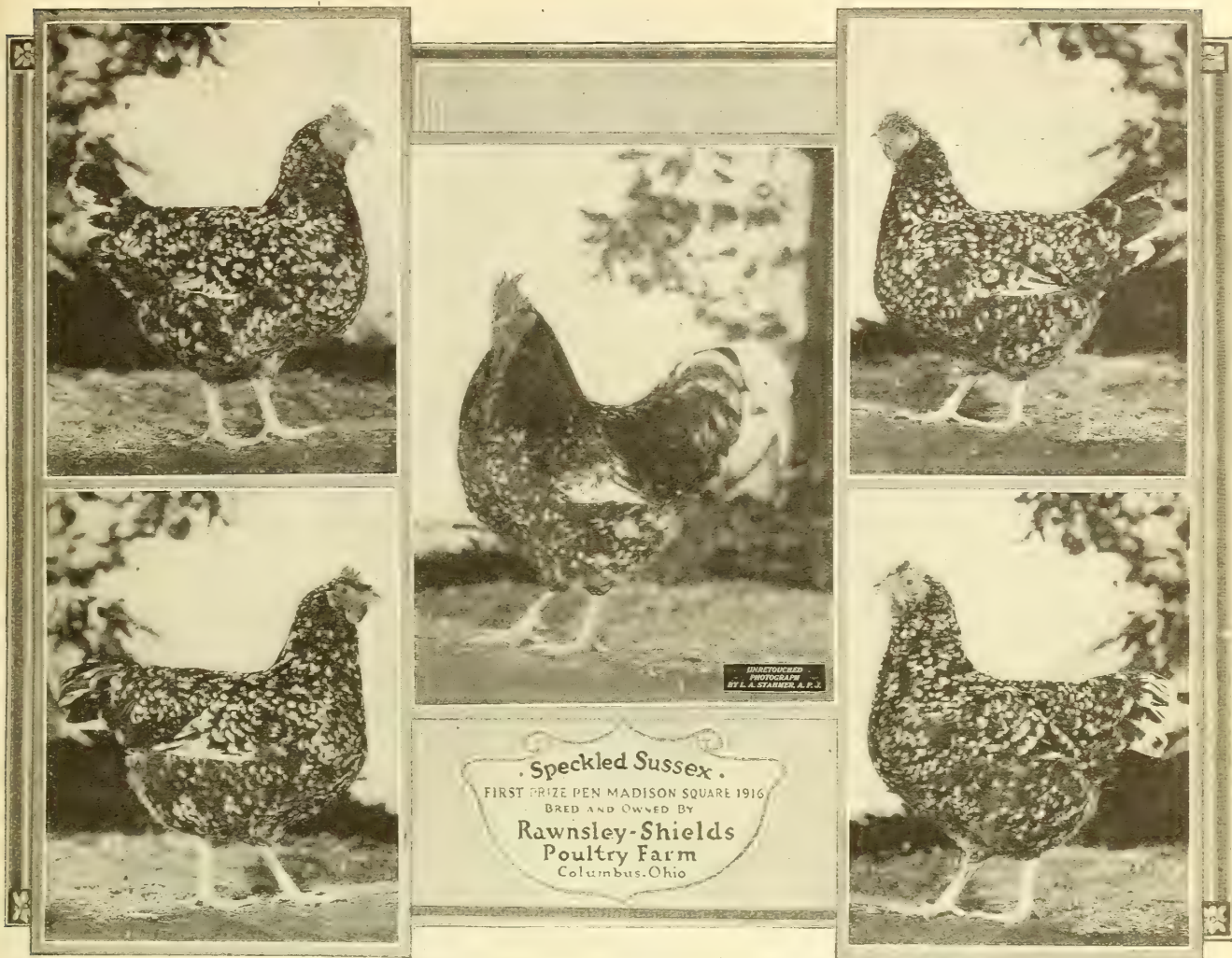
First White Rock hen at Palace Show, N. Y. Type and color perfect, an easy winner. Owned by Bella Vista Farm, Lewes P. Doerhoefer, Anchorage, Ky.—P. K. W.



The exquisite penciling and perfect mahogany brown surface of this first prize Partridge Rock hen was the cause of much comment at Madison Square, 1916. Bred and owned by Bird Bros., Meyersdale, Pa.—



A Speckled Sussex, 1916 Madison Square Garden winner. She also won first pullet at Buffalo. Bred and owned by Rev. W. Berberich, Groton, N. Y.—P. K. W.



First pen Speckled Sussex, Madison Square Garden, 1916. The male bird, as you will note, has a long, broad, flat back, well spread tail, deep full breast, stout thighs. The females have broad deep breasts, perfect five-point combs, long flat backs. In fact, individually and collectively they are the ideal Speckled Sussex, as perfect as any bred in the world. Bred and owned by Rawnsey-Shields Poultry Farm, Columbus, Ohio.—P. K. W.

Madison Square Garden Show.

(Continued from Page 272)

many visitors to the show and it certainly created a wholesome and desirable interest in pure-bred poultry that will not only help to give us more poultry keepers, but will also help them toward success.

The supply dealers and manufacturers exhibits were attractively displayed as usual; in this connection one was certain to notice the considerable increase in the numbers of practical coal-heated colony brooders and the remarkably low prices at which good stoves are now offered; the variety of practical portable houses and coops was also very interesting; in incubator, supply and feed lines most of the offerings were of a practical and useful nature, and the old-time catch penny junk was less conspicuous than in former years. It all tends toward the modern business idea that to stay in business, to do real business and hold customers, one must give one hundred cents value for a dollar.

The displays of wild and domestic water fowl, rare cranes, peafowl, Phoenix fowl, and rare ornamental specimens were very beautiful and interesting—an always attractive feature of the big show. The pigeon department contained 1,014 entries and was one of the big features of the exhibition.

Just why the "poor loser" is always in evidence at the Garden is difficult to understand, but he always—generally several of him—is in evidence annually at this big show. This year was no exception to the rule. It is a great pity that any exhibitor should feel it necessary to take lost ribbons so ill and should pour the tale of his grievances into the ear of any listener. Everybody cannot win. We know who is to judge before we exhibit and, presumably, when we exhibit we show to win or lose on the opinion of the judge. So why not show clean sportsmanship and take our winnings or our losses as they come, and not put up a howl if things fail to come our way? The poor loser, who cries baby over his losses, hurts himself a thousand times more than the loss of the ribbons could possibly hurt him. It is better to play the game and take one's medicine with a smile.

The judges at the Garden were:

W. M. Anderson, Saratoga Springs, N. Y.—Anconas, Buttercups, Lakenvelders and Spanish. W. B. Atherton, Randolph, Mass.—Houdans and Faverolles. Dr. A. T. Beckett, Salem, N. J. (with W. E. Samson)—Silver Laced Wyandottes. Louis C. Bonfoey, Plainfield, N. J.—White Plymouth Rocks. George H. Burgott, Lawtons, N. Y.—Silver, Columbian and A. O. V. Leghorns and Javas. M. L. Chapman, Browns Mills, N. J.—Campines. W. H. Congdon, Oaklawn, R. I.—Feathered Leg Bantams. George W. Dakin, Roxbury, Mass.—White Wyandottes. J. H. Drevenstedt, Buffalo, N. Y.—Cornish; Dominiques; Brown Leghorns and Silver Penciled Wyandottes.

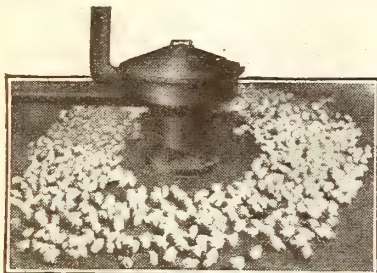
James Glasgow, Mahwah, N. J.—Exhibition and Pit Games, Game and Malay Bantams, Sumatras and Malays. Louis P. Graham, Vineland, N. J.—Barred Plymouth Rocks and Barred Wyandottes. H. B. Hark, Glendale, Ohio—Partridge Plymouth Rocks, Partridge Cochins, Black Wyandottes. J. C. Kriner Stettlersville, Pa.—Water Fowl; Ornamental Classes and Turkeys. W. G. Minich, Carlisle, Pa.—Hamburgs, Polish and Andalusians. J. H. Minshall, London, Ontario—Minorcas. Richard Oke, London, Ontario—White, Blue, Jubilee and A. O. V. Orpingtons. Wallace R. Pierson, Cromwell, Conn.—R. C. Rhode Island Reds. F. L. Platt, Swanton, Ohio—Light Brahmas, Sussex and Dorkings. J. C. Punderford, New York City—Buff Plymouth Rocks, Buff Wyandottes and Black Leghorns. Len Rawnsey, Columbus, Ohio—Buff and Black Orpingtons. Irving F. Rice, Cortland, N. Y.—White Leghorns. T. F. Rigg, Iowa Falls, Iowa—Cochins, except Partridge Cochins, Creve Coeurs, La Fleche, Red Caps, Sultans, Frizzles and any other variety. F. W. Rogers, Montello, Mass.—Silver Penciled Plymouth Rocks, Dark Brahmas, Partridge Wyandottes and Silkies. W. E. Samson, Portlandville, N. Y. (with Dr. A. T. Beckett)—Silver Laced Wyandottes. H. P. Schwab, Irondequoit, N. Y.—Columbian Plymouth Rocks, Buff Leghorns and Langshans. George W. Tracey, Kinderhook, N. Y.—S. C. Rhode Island Reds and Buckeyes. George L. Young, Brooklyn, N. Y.—Clean Leg Bantams. J. F. Van Alstyne, Kinderhook, N. Y.—Columbian and Golden Wyandottes.

Barred Plymouth Rocks, remarkable quality, fine type and snappy barring in all classes: 20 cocks, 17 hens, 34 cockerels, 15 pullets, 5 pens.

White Plymouth Rocks, quality variable, some unusually fine specimens and a few that were too long in head or

ACT QUICK!

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Duplex Brooder Stoves and Incubators

They have wonderful new features. Our improved burner is a wonderful fuel saver and is as safe as a stove can be. Our perfect automatic heat control, the perfect system of warm air automatic ventilation in both brooder stove and incubators are worth investigating. The Improved Duplex can be operated with less labor, is perfectly reliable, and costs less to operate than any brooder stove on the market. Don't take chances with slow burning fuel and its attendant danger of gas and fumes. The Duplex can be installed at a less cost and will give you better satisfaction.

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Free Booklet. Don't install any equipment before you read this booklet. It explains colony brooding in detail; why it is so successful; why the Duplex eliminates white diarrhoea; has valuable information about Duplex Incubators. Write us a letter, telling your plans, and we will give you a personal letter inclosing building plans and other information you may want. It's free. Write today.

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BURNSIDE'S Poultry Farm

I have 70 head of Muscovy Ducks, a lot of Turkeys, Pekin Ducks, Leghorns, Wyandottes, Rocks, Polish Bantams, Pea Fowls, and in Geese anything you want. 300 head I have to sell. If you want good stock I can please you. I breed all varieties of Land and Water Fowl.

JESSE BURNSIDE, Proprietor
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Bawden's Buff Plymouth Rocks Sunlight Strain

The blood of this strain is used in nearly all the best prize winning flocks in Canada and the United States. Send \$5.00, \$10.00, \$15.00, for Cockerel on approval.

1916 Mating List Free.

J. BAWDEN, Box 20, Ridgetown, Ont., Can.

otherwise decidedly defective; 22 cocks, 20 hens, 33 cockerels, 26 pullets, 9 pens.

Silver Penciled Plymouth Rocks, good quality, only two birds in each of single classes and one pen.

Partridge Plymouth Rocks, included some of the best type, size and color seen at this show; 13 cocks, 17 hens, 16 cockerels, 12 pullets, 3 pens.

Buff Plymouth Rocks, some good color and type; 8 cocks, 9 hens, 8 cockerels, 8 pullets, 4 pens.

Columbian Plymouth Rocks, quality excellent, type and color good; 4 cocks, 6 hens, 11 cockerels, 7 pullets, 2 pens.

Blue Plymouth Rocks, a new and interesting variety, with good type and color and including 1 cock, 2 hens, 2 cockerels, 2 pullets and 1 pen.

R. C. Barred Plymouth Rocks, 3 cockerels and 2 pullets.



Fourth S. C. Brown Leghorn cockerel, Palace, N. Y., show. Color and type good. Bred and owned by Fred M. Farrant, Kalamazoo, Mich.—P. K. W.

Silver Laced Wyandottes, remarkable classes of beautifully laced birds of excellent type; 24 cocks, 25 hens, 23 cockerels, 23 pullets, 6 pens.

Golden Wyandottes, some good quality and type, 3 cocks, 2 hens, 4 cockerels, 6 pullets, 3 pens.

White Wyandottes, quality good in most specimens shown and particularly fine in young birds; 13 cocks, 17 hens, 21 cockerels, 26 pullets, 9 pens.

Black Wyandottes, 2 cocks, 2 hens, 4 cockerels, 3 pullets, 1 pen.

Buff Wyandottes, some good golden buff color and good type here; 4 cocks, 5 hens, 7 cockerels, 4 pullets, 6 pens.

Partridge Wyandottes, some splendid color and penciling with good type; 5 cocks, 8 hens, 5 cockerels, 6 pullets, 1 pen.

Columbian Wyandottes, excellent in type and color; 8 cocks, 9 hens, 11 cockerels, 10 pullets, 2 pens.

Silver Penciled Wyandottes, good in type and beautifully penciled; 3 cocks, 4 hens, 6 cockerels, 6 pullets, 1 pen.

Blue Wyandottes, 1 cock and 2 hens shown.

Black Javas, quality good and specimens of large size; 1 cock, 3 hens, 2 cockerels, 1 pullet.

Mottled Javas, 1 cock, 3 hens, 1 cockerel, 1 pullet.

Dominiques, good in type and color; 3 cocks, 4 hens, 2 cockerels, 2 pullets, 2 pens.

ROUP CURE

that is guaranteed in every way. Order a 50-cent package today and save dollars in keeping your flock in perfect health. **W. O. McCURUM,** 1101 W. Main St. Decatur, Ill.

DIAMOND CORN GLUTEN MEAL



FOR a profitable egg yield, hens must have more protein than straight corn or grain can supply. You want an *available protein* and a *low-priced protein*.

Protein from corn — a natural poultry-food source — is far more digestible, hence more available for hens than the protein in beef or packing-house scraps—also it costs much less.

Diamond Corn Gluten Meal is the most concentrated and lowest priced corn-protein on the market. Guaranteed 40% protein, 1.5% fat, 4% fibre.

This is the reason that Diamond Corn Gluten Meal is the chief ingredient in the feeding formulas used by successful poultry men.

Mix Diamond Corn Gluten Meal with your low protein starchy grains for a month. Watch your egg yield and be convinced.

Write us for feeding formulas.

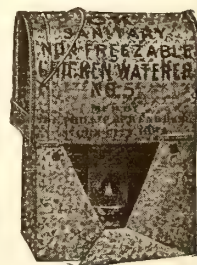
If your dealer does not carry Diamond Corn Gluten Meal write us and we will instruct you where to get it.

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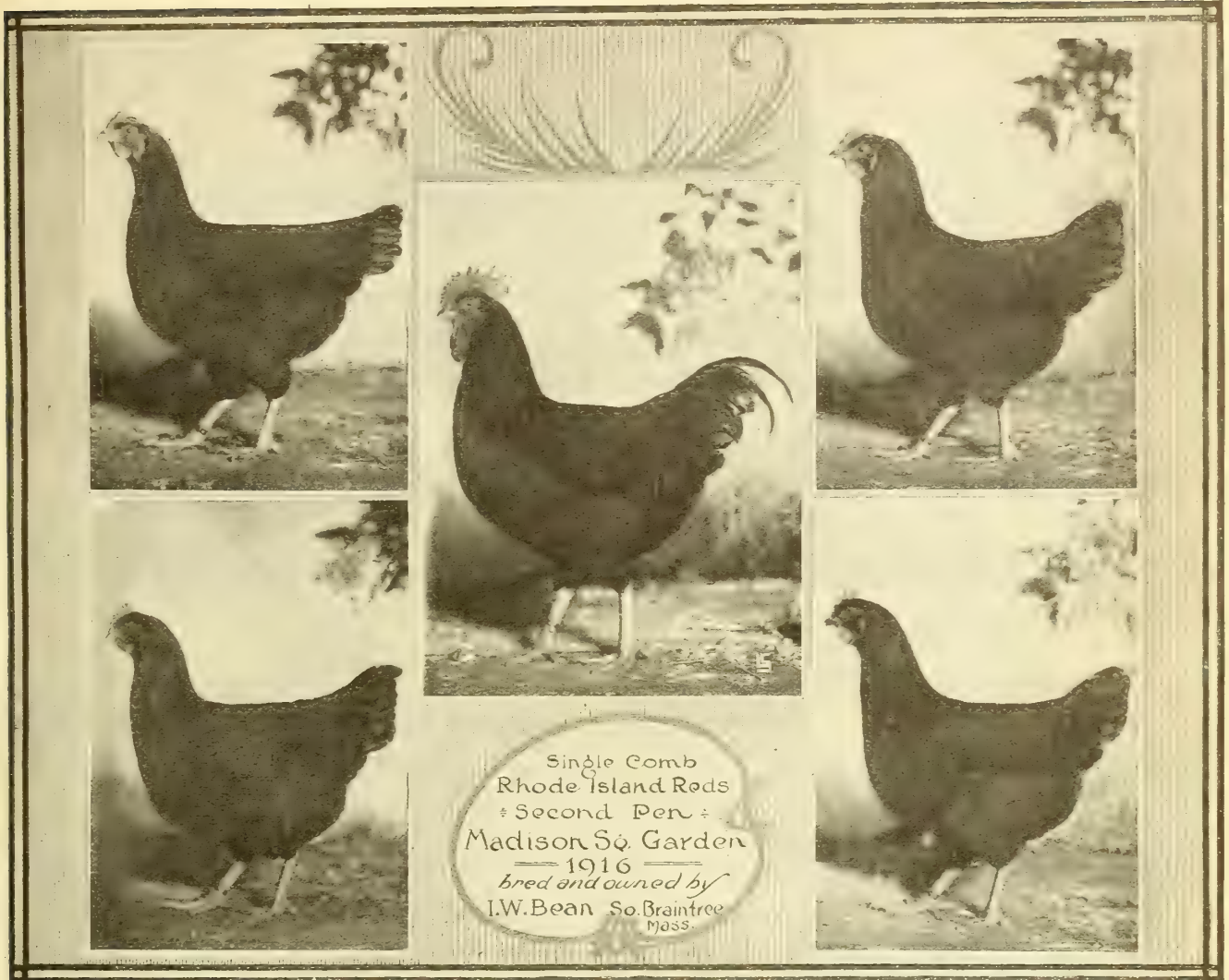
Increases egg yield. Prevents disease and frozen wattles. Keeps water sanitary and cool in summer and at right temperature in winter. A money maker and time saver. Lasts a lifetime. Made of galvanized steel. Will pay for itself in a short time by increasing egg yield. Guaranteed non-freezable in 40 degrees below zero weather. Made in seven sizes. Easy to operate. Easy to clean. Low prices.

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Sioux City, Iowa



Second pen, S. C. Rhode Island Reds, Madison Square Garden, 1916. Consider there were thirteen pens entered and you can judge what quality this pen represents. The male was a brilliant rich red with perfect undercolor. Females good color, excellent type and uniform. Bred and owned by I. W. Bean, South Braintree, Mass.—P. K. W.

S. C. Rhode Island Reds, some remarkably fine birds shown, one of the leading quality classes in the show and evidently one where condition counted large in the judging; 30 cocks, 24 hens, 36 cockerels, 31 pullets, 13 pens.

R. C. Rhode Island Reds, some remarkably fine specimens both in and out of the ribbons; 21 cocks, 12 hens, 26 cockerels, 18 pullets, 6 pens.

Buckeyes, 2 cocks, 1 hen, 1 cockerel.

Light Brahmas a strong showing of good quality; 15 cocks, 15 hens, 18 cockerels, 17 pullets, 7 pens.

Dark Brahmas, some good old fashioned quality here; 4 cocks, 6 hens, 5 cockerels, 5 pullets, 2 pens.

Buff Cochins, excellent specimens of the big full feathered type; 3 cocks, 2 cockerels, 2 pullets, 2 pens.

Partridge Cochins, quality good; 4 cocks, 6 hens, 4 cockerels, 5 pullets, 1 pen.

Black Langshans, some remarkably good quality with fine type and color; 7 cocks, 6 hens, 4 cockerels, 4 pullets, 5 pens.

S. C. Brown Leghorns, one of the fine quality exhibits of the show where type and color was unusually good and where some of the winning specimens were pretty close to the ideal; 11 cocks, 12 hens, 11 cockerels, 18 pullets, 3 pens.

S. C. White Leghorns, a truly remarkable exhibition of uncommonly fine specimens, classes where good sports-

manship was displayed and where there were a few incidents noted by us that demonstrate that men can be generous and good fanciers in the stress of hot competition; 18 cocks, 21 hens, 21 cockerels, 26 pullets, 14 pens.

S. C. Buff Leghorns, some fine colored specimens here both in and out of ribbons; 15 cocks, 15 hens, 14 cockerels, 17 pullets, 7 pens.

S. C. Black Leghorns, good type, good color and fine shank color; 2 cocks, 5 hens, 4 cockerels, 3 pullets, 1 pen.

S. C. Silver Leghorns, good in type and color; 1 cock, 3 hens, 1 cockerel, 2 pullets.

R. C. Brown Leghorns, excellent quality; 4 cocks, 4 hens, 2 cockerels, 6 pullets.

R. C. White Leghorns, 2 cocks, 3 hens, 3 cockerels, 3 pullets, 1 pen.

S. C. Black Minorcas, general quality all thru the exhibit was excellent, except for a few knock-kneed males, all specimens showed fine type, color and quality; 25 cocks, 24 hens, 21 cockerels, 21 pullets, 8 pens.

S. C. White Minorcas, R. C. White Minorcas, S. C. Buff Minorcas, and R. C. Black Minorcas, small classes with very good quality.

White Faced Black Spanish, 4 cocks, 4 hens, 3 cockerels, 4 pullets.

Blue Andalusians, quality excellent; 7 cocks, 10 hens, 9 cockerels, 11 pullets, 2 pens.

S. C. Anconas, pronounced by judges one of the best exhibits ever cooped at the Garden; 13 cocks, 13 hens, 21 cockerels, 13 pullets, 8 pens.

R. C. Anconas, quality better in females than in males; 7 cocks, 6 hens, 7 cockerels, 6 pullets, 3 pens.

Silver Campines, quality excellent, 9 cocks, 7 hens, 14 cockerels, 9 pullets, 5 pens.

Golden Campines, 2 cocks, 4 hens, 3 cockerels, 5 pullets, 1 pen.

S. C. Buff Orpingtons, some splendid quality; 15 cocks, 22 hens, 22 cockerels, 20 pullets, 11 pens.

S. C. Black Orpingtons, some splendid birds; 5 cocks, 7 hens, 8 cockerels, 7 pullets, 1 pen.

S. C. White Orpingtons, a very fine exhibit of good type and quality; 15 cocks, 21 hens, 17 cockerels, 15 pullets, 8 pens.

Blue Orpingtons, some splendid color and fine type; 10 cocks, 16 hens, 6 cockerels, 8 pullets, 4 pens.

Small exhibit of R. C. Buff, Black and White Orpingtons.

Silver Gray Dorkings, some splendid specimens of good type and color; 4 cocks, 2 hens, 2 cockerels, 5 pullets.

Colored Dorkings represented by 1 cock and 2 hens.

Dark Cornish, good quality in type, color and size; 8 cocks, 9 hens, 10 cockerels, 5 pullets, 3 pens.

White Cornish, 4 cocks, 4 hens, 3 cockerels, 3 pullets.

Speckled Sussex, some excellent type, size and color; 6 cocks, 12 hens, 12 cockerels, 17 pullets, 4 pens.

Light Sussex, one in each class.

Red Sussex, 4 cocks, 4 hens, 2 cockerels, 4 pullets, 2 pens.

Polish classes small but quality good.

Blue Crowns, 4 specimens shown in each single class, a variety with good color, with coarse comb of "crown" shape.

Golden Spangled Hamburg classes

small. Silver Spangled Hamburg classes of good size and quality excellent. Golden Penciled Hamburg classes fairly filled and with some excellent quality. Silver Penciled Hamburgs small classes. Blacks also small classes.

Mottled Houdans and White Houdans, small classes with excellent type and quality. Blue Houdans, small classes.

White Faverolles, some good type, size and color; 4 cocks, 8 hens, 5 cockerels, 6 pullets, 2 pens. Small classes of Salmon Faverolles and Buffs.

Buttercups, show improvement in type and color, 3 cocks, 5 hens, 7 cockerels, 6 pullets, 1 pen.

Lakenvelders, some excellent quality; 3 cocks, 4 hens, 6 cockerels, 6 pullets, 1 pen.

Turkeys, ducks, geese, Games, bantams and pigeons represented by ample variety and excellent quality.

Complete list of awards follows:

BARRED PLYMOUTH ROCKS — E. B. Thompson, Amenia, N. Y., 1-2-3-4-5 cock, chl, plt, exhibition pen, 2-3-4 hen; C. N. Myers, Hanover, Pa., 1-5 hen.

WHITE PLYMOUTH ROCKS — Walter

E. B. Thompson's Imperial Ringlet Barred Plymouth Rocks

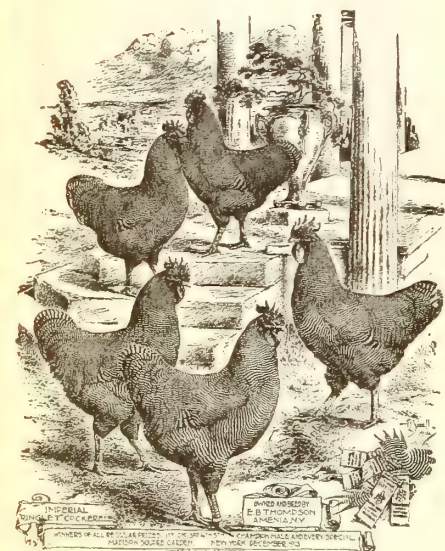
At the Premier Show of All the World

Madison Square Garden, New York
Dec. 31, 1915 — Jan. 5, 1916

set a new and supreme standard of winning with a performance record never approached—this record shatters all traditions. (See Back Cover Page.)

The test of quality is the show room and the Supreme Test is Madison Square Garden. It is at this show—and this show only—that the best Barred Rocks in America are exhibited. The Imperial "Ringlets" have an unbroken calendar of successive victories at New York for more than a quarter of a century, winning more than 3 times as many 1st Prizes as any competitor—mark this fact.

Their record the last four years in succession, 1913, 1914, 1915, 1916, is the climax of these unprecedented victories.



The five Cockerels winning Champion Male and all the Ribbons on Cockerels, viz: 1st, 2d, 3d, 4th and 5th Prizes, at Madison Square Garden, New York.

Winning three times as many First Prizes as all competitors combined—every Silver Cup—All Prizes offered on cockerels, viz: 1st, 2nd, 3rd, 4th and 5th, three years in succession; Sweepstakes Champion Male four years in succession; Both Sweepstakes Champion Male and Sweepstakes Champion Female three different years.

I am the only Barred Rock breeder who has won **Every First Prize Offered**, all prizes on Cockerels and all prizes on Pullets, viz: 1st, 2nd, 3rd, 4th and 5th, within the four walls of Madison Square Garden. The Imperial "Ringlets" have won final ownership of every Silver Cup and Trophy that has ever been offered at New York to be won three times—Among them are the **\$100** Challenge Trophy and the **\$100** Association cups.

PRIZES AND SILVER CUPS

have been won by my customers on the Imperial "Ringlets" in more than a thousand show rooms thruout the civilized world—You can win the same laurels.

I will sell you grand exhibition and breeding birds, Cocks, Cockerels, Hens, Pullets and Pens of this richest First Prize Sweepstakes New York blood, mated to produce Prize winners and eggs from the World's Best Matings.

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Cover Page

Richly illustrated Catalog Upon Request.

E. B. Thompson

Lock Box 510, AMENIA, N. Y.

Jennings, Cold Spring Harbor, N. Y., 1 cock, ckl, 2 hen, pen, 1-3 plt; Mirimichi Poultry Farms, Foxboro, Mass., 2 cock, plt, 5 ckl, 3 pen; A. L. Bonfoey, Higganum, Conn., 3 cock, 5 plt; R. S. Chaiker, Higganum, Conn., 4 cock, 5 hen, 2 ckl; Rancocas Poultry Farm, Browns Mills, N. J., 5 cock, 1 hen, pen, 4 plt; Elm Poultry Yards, Hartford, Conn., 3 hen; Cedarvale Poultry Farms, 4 hen, ckl, pen; Meadowbrook Farm, Meadowbrook, Pa., 3 ckl.

SILVER PENCILED PLYMOUTH ROCKS—Wm. M. Jones, East Hampton, N. Y., 1 cock; Bonaparte Park Poultry Ranch, Bordentown, N. J., 2 cock, 1 hen, ckl, plt, pen; Monroe Bros., Monticello, N. J., 3 cock, 2 hen, ckl, plt.

PARTRIDGE PLYMOUTH ROCKS—Bird Bros., Meyersdale, Pa., 1-2-3-4-5 cock, 1-4-5 hen, 3 ckl, 1-2-3-5 plt, 1-2 pen; Glenwood

Farm, West Mansfield, Mass., 2 hen, 1-2 ckl; J. F. Phillips, Buffalo, N. Y., 3 hen, 4 plt; H. J. Woodward, Newton, N. J., 4 ckl; J. C. Myers, Ligonier, Pa., 5 ckl; Bonaparte Park Poultry Ranch, 3 pen.

BUFF PLYMOUTH ROCKS—Vierheller Bros., Pittsburgh, Pa., 1 cock, ckl, 2-3 hen, 3-4 plt, 3 pen; Fred Armer, Ballston Spa, N. Y., 2-3 cock, 4 hen; Jas. H. Vincent, Hazelton, Pa., 4-5 cock, 1 hen, pen, 2-3-5 ckl, 2 plt; C. R. Baker, Abilene, Kan., 5 hen, 4 ckl, 1 plt; Kerlin Farms, Pottstown, Pa., 5 plt; B. P. North, 4 pen.

COLUMBIAN PLYMOUTH ROCKS—Bonaparte Park Poultry Ranch, 1 cock, 2 hen, pen, 5 ckl; J. M. Jones 2 cock; Wilburtha Poultry Farms, Trenton Jct., N. J., 3-4 cock, 3 hen, 1-3 ckl, 2-5 plt, 1 pen; F. G. Bean, Collegeville, Pa., 1 hen, 2 ckl; Geo. F. Leach, Cornwall, N. Y., 4 hen, Jas. H.

Taylor, Woodstock, Ill., 5 hen, Chas. J. Free, Peekskill, N. Y., 4 ckl; T. J. Enslin, Hackettstown, N. J., 3-4 plt.

BLUE PLYMOUTH ROCKS—Fishel & Hasselman, Hope, Ind., 1-2 hen, ckl, plt. R. C. BARRED PLYMOUTH ROCK—Wenger & Lester, So. English, Ia., 3 ckl, 2 plt; T. Brocklehurst, No. Adams, Mass., 4 ckl; Geo. Watson, Lowell, Mass., 5 ckl, 3 plt.

SILVER LACED WYANDOTTES—Dr. T. H. Charnbury, Hanover, Pa., 1 cock, 1-2 ckl, 5 plt; H. Kerl, Lenexa, Kan., 2-3 cock, 3 hen, 2 plt; Clare E. Hoffman, Allegan, Mich., 4 cock; M. H. Leidy, Souderton, Pa., 5 cock, 1 hen; R. F. Alden, Port Dickinson, N. J., 1 hen; A. & E. Tarbox, Yorkville, Ill., 2 hen, pen, 3-5 ckl; Pope M. Long, Cordova, Ala., 4 hen, 1-4 plt, 1 pen; Chas. S. Shirk, Hanover, Pa., 5 hen; R. G. Wil-

E. B. Thompson's Imperial "Ringlet" Barred Plymouth Rocks

Are Recognized Thruout the World As
the Leaders of All the Barred Rocks

You Are Now Thinking About Eggs to Produce
the Silver Cup and Blue Ribbon Winners
for Next Season's Shows.

Think of the great satisfaction of winning prizes on birds you raise with your own hands, from the time the chick first sees daylight until the Blue Ribbon hangs on the coop in the Show Room. The delight of winning on a bird you owned all its lifetime cannot be described.

**My Imperial "Ringlets" Will Put You In a
Position to Win at Next Season's Shows.**

You may raise a single chick worth hundreds of dollars and capable of winning in the strongest competition—Hundreds of my customers have done this.

My Matings Cannot be Equalled in Their High Quality and First Prize New York Blood Lines

They are the Finest in all America. In my Imperial "Ringlet" eggs you get the best First Prize Sweepstakes New York blood which you must have to win in the strongest competition. You will share with me and have an equal chance of producing the highest quality First Prize birds of the year. The Imperial "Ringlets" have a distinct type, color and barring—their color is one even blue shade and barring, is evenly spaced, narrow and straight across the feather to the skin—they stand out in pattern from all others.

My Eggs Are the Best that Money Can Buy—They Produce First Prize Birds

Mr. E. B. Thompson.

Dear Sir:—Just a few lines to let you know what the Imperial "Ringlets" have done for us in the show room this last fall and winter. The Mountain Poultry and Pet Stock Association, of Kane, Pennsylvania, held their show last week. We had 28 birds entered and they were admired by everyone as well as by the Judge; in prizes we took 1st, 2nd, 3rd, 4th and 5th Cockerel; 1st, 2nd, 3rd, 4th and 5th Pullet; 1st, 2nd and 3rd Pen; 1st and 5th Hen; 3rd Cock; Special for Best Pen in Show and Best Hen in Show, also a Special Silver Cup for Best Display in American Class. At McKean County Fair and Johnsonburg Show they won the Blues also. These birds are all from the stock we raised from the eggs we bought of you in the spring of 1914. We have some promising youngsters from the eggs we got of you last spring, too.

Wilcox, Pa., January 11th, 1916.

Yours respectfully, Nelson Bros.

Plainville, Ind., Jan. 3rd, 1916.

Mr. E. B. Thompson.

Dear Sir:—I will write and let you know that the Imperial "Ringlet" cockerel that I bought of you in December won First Prize at Plainville and Odon, Ind., and from the eggs I got of you last spring I raised seven pullets and seven cockerels; won 1st and 2nd Pullet; 1st Pen; 2nd and 3rd Cockerel. Kindly quote price on one setting of eggs from your best cockerel mating pen.

Yours truly, Fred Lawyer.

I Will Help You to Greater Success and Larger Profits

Richly Illustrated Catalog Upon Request.

EGGS from the finest exhibition matings in all the world,
\$10 per setting; 4 settings \$35; 100 eggs \$60.

E. B. Thompson

Lock Box 510, AMENIA, N. Y.

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Ad on Back
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A Hatch of Chicks from Imperial "Ringlet" Eggs

One Dollar BOOKS YOUR Order For "Better-Hatched" Chicks



90,000
FOR APRIL DELIVERY

We can still book a few thousand for latter part of March—to get them at this time you must act quickly as we have 60,000

chicks sold; nearly all to old customers, who began to place their orders last August. One customer says:

"I have bought S. C. White Leghorn chicks for several years. The last four years I have bought your 'Pay-streak' strain, they have the others all backed off the map. Its eggs I want, and they deliver the goods." We cannot help but believe his statement, as he ordered 3,000 "Pay-streak" White Leghorns for 1916. Another says: "One of your 'Pay-streak' White Leghorns laid at the age of 116 days." Think of it! Less than four months. They get the profit habit early. Another one: "I kept fourteen pullets from the twenty-five White Wyandottes I bought of you last March; one laid her first egg when four months and twenty-seven days old; one laid at five months and four days; one at five months and ten days; they laid 206 eggs in November. Money couldn't buy them." We showed five White Wyandotte pullets at the Shelby, O., show in December, they scored 95¼, 95, 95, 95, 94½. Needless to say they got the ribbons, as well as 1st pen, 1st and 3rd cockerel, and special for best ten birds in show. Good enough for any one, are they not?

WE MAKE A SPECIALTY OF S. C. WHITE LEGHORNS AND BARRED PLYMOUTH ROCKS IN 500 AND 1000 LOTS

We also breed and hatch, S. C. Brown Leghorns, S. C. Buff Leghorns, White Plymouth Rocks, S. C. Black Minorcas, White Wyandottes, S. C. and R. C. Rhode Island Reds, S. C. White and Buff Orpingtons. These are shipped in lots of 25, 50, 100 and up.

We have a hatching capacity of 100,500 eggs and have shipped over one million chicks with not one dissatisfied customer.

A complete description with prices in our catalog—It's free.

THE CO-OPERATIVE BREEDING & HATCHING CO., Box A Tiro, O.

Foxhurst Champion BLACK ORPINGTONS Again Sweep to Victory

At America's Greatest Show
Madison Sq. Garden, N. Y.
Dec. 31, 1915, Jan. 5, 1916, winning

Cock	Hen	Cockerel	Pullet	Pen
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
		5	5	5

All Gold and Silver Specials

Repeating our equally marvelous wins of the past 8 years. Our customers are sweeping all shows, large and small, from coast to coast, as hundreds of testimonials prove. Exhibition and Breeding Birds for sale at prices within the reach of all. Stock shipped on a money-back guarantee. Eggs in season. Send for Mating List.

FOXHURST FARM, Lime Rock, Conn.



Strong, Healthy Baby Chicks, or Eggs For Hatching — White Wyandottes

Our White Wyandottes are utility birds and are not like some so-called utility stock that consists of birds culled from flocks raised for exhibition purposes only. If you want stock that will lay well you must breed them for that purpose.

Come and see these birds or write for catalog giving list of matings, records and prices.

Pine Lake Poultry Farm, Hartland, Wis. DEPARTMENT 6
Chas. H. Benjamin, Mgr.



lams, Barre, Mass., 4 ckl, pen, 3 plt; D. O. Allen, Seymour, Conn., 5 pen.

GOLDEN WYANDOTTES—Israel W. Van Sise, Woodbury, N. Y., 1 cock; Sidney P. Child, Elizabeth, N. J., 2 cock, 1 hen; Geo. F. Perkins, Jersey City, N. J., 3 cock, 2 hen, 4 ckl, 1-3 plt, 1 pen; Robert Patterson, Guelph, Ont., Can., 2 ckl, plt; H. V. Fifer, Berryville, Va., 3 ckl, 4 plt; A. M. Posten, Atlantic Highlands, N. J., 1 ckl, 5 plt; Frank Ward, Tiffin, O., 2 pen; Anderson & Freeman, Fitchburg, Mass., 3 pen.

WHITE WYANDOTTES—Geo. H. Ward, Manchester, Conn., 1 cock, White Wyandotte Poultry Yards, Westboro, Mass., 2 cock, 5 hen, pen, 4 ckl, 2-3 plt; D. M. Snyder, Auburn, N. J., 3 cock; Arthur G. Duston, So. Framingham, Mass., 4-5 cock, 2-3 hen, 1 ckl, pen, 1 plt; West Mt. Poultry Yards, Naugatuck, Conn., 1-4 hen, 2 pen; Horace Havemeyer, Stamford, Conn.,



Columbian Wyandotte first cock and best colored male at Boston, 1916. A perfectly marked bird and easily the winner. Ralph Woodward, Grafton, Mass.—P. K. W.

2 ckl, 5 plt, 4 pen. Wendover Farms, Bermsville, N. J., 5 ckl.

BLACK WYANDOTTES—F. G. Bean, 1 cock; J. T. McNealley, Lovettsville, Va., 2 cock, 1-2 hen, 1-2-3 ckl, plt, 1 pen; Edwin N. Morris, Sparkhill, N. Y., 4 ckl.

BUFF WYANDOTTES—T. S. Hewke, Middletown, N. Y., 1-2 cock, 1-3 hen, plt, 1-3-4 ckl, 2 pen; Jacob A. Film, Troy, N. Y., 3 cock, 5 ckl; A. M. Posten, 4 cock, 5 hen; Wildwood Farms, Sayville, N. Y., 2 hen, ckl, plt; A. J. Gies, Delmar, N. Y., 4 hen, plt, 1-4-5 pen; Dr. N. W. Sanborn, Holden, Mass., 3 pen.

PARTRIDGE WYANDOTTES—Sheffield Farm, Glendale, O., 1 cock, pen, 3 hen, 2-3-4 ckl, 1-2-5 plt; G. B. Critchfield, Bangs, O., 2 cock, 5 hen; Paul W. Doll, New York City, 3 cock, 4 plt; Euck Bros., Oxford, Mass., 4 cock, 1-2 hen, 1 ckl, 3 plt; Geo. F. Davis, Hackensack, N. J., 5 cock, 4 hen; Raymond M. Heald, Westchester, Pa., 5 ckl.

COLUMBIAN WYANDOTTES—Wilburtha Poultry Farms, 1 cock, pen, 1-2 hen, 5 ckl, 3 plt; Bettin Farm, 2 cock, pen, plt, 1-4 ckl; Geo. L. Rogers, Scranton, Pa., 3 cock; Elmer C. Hilborn, Royersford, Pa., 4 cock, 5 plt; E. N. Huntress, Pittsfield, Mass., 5 cock, hen; D. Lincoln Orr, Orr's Mills, N. Y., 3 hen; B. P. Gray, Hammonont, N. J., 4 hen; Geo. M. Wilkinson, Blairsville, Pa., 2 ckl, 1 plt; James T. Lohmes, Valley Falls, N. Y., 3 ckl; Harry L. Freeman, South Duxbury, Mass., 4 plt.

CORNELL GASOLINE BROODER HEATER

Improved 1916

Equal to five Kerosene Heaters

Recommended by the New York State College of Agriculture

Will burn any kind of Gasoline

Cares for 250 Chicks
Needs little attention
No lamps to trim
No ashes, dirt or soot
Absolutely safe
Perfect ventilation

PRICE COMPLETE

\$11.50

CAPACITY
250
CHICKS

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TREMAN, KING & CO.
Dept. 503, Ithaca, N. Y.

Mfgs of Poultry House Appliances





First prize pen, Red Sussex, Madison Square Garden, 1916. One of the most perfect male birds ever exhibited at the Garden; type and color perfect—in fact, a perfect beauty. Females very noticeable for their uniformity in both color and type, showing very consistent breeding. Bred and owned by Houstonia Poultry Farm, (Houston & Hofius), South Charleston, O.

You Needn't Board Our Leghorns Free All Winter—They Lay Eggs



"The Proof of the Pudding is the Eating"

Best day's laying in WINTER by 400 pullets, 324 eggs; another lot of 200 hens paid \$1,124 profit. They will lay as well for you. TESTED 10 YEARS. If you want the WINTER EGG AND BIG PROFIT, buy of the breeder that can give unquestionable PROOF. 20,000 chix. selected GUARANTEED FERTILE hatching eggs and stock at a LET-LIVE price. Get my big free catalog. Write

OSEE C. FRANTZ FARMS

ROCKY FORD, COLO.



Give the chicks a Feed they can digest

A chick needs no food for the first 48 hours. Nature gives him that much of a start. But at the end of that 48th hour he's got to get hold of something he can digest *quick*.

That's where H-O Steam-Cooked Chick Feed comes in. It's made up of selected grains, steam-cooked to insure easy digestion by the youngest chicks. It builds bone and tissue right from the first minute.

H-O Steam-Cooked Chick Feed

actually saves chicks' lives. Easy to digest because **steam-cooked**. Keeps sweet and in prime condition, because it contains little moisture.

Try H-O Steam-Cooked Chick Feed on this year's brood. See how it increases your poultry profits for the season.

Write for free sample, prices and descriptive folder.

The H-O Company John J. Campbell
Mills General Sales Agent
BUFFALO, N. Y. HARTFORD, CONN.

The Real Champions of America



Princess Efficiency
1st Hen and color special; Champion Female Barred Rock, Chicago Coliseum, Dec., 1914. Cut made from unretouched photograph.

At Hagerstown, Chicago, Chattanooga, Panama-Pacific Exposition, Memphis, Atlanta, New Orleans, and scores of other shows, my birds have been judged by many judges and have made wonderful records. "ASK THE JUDGES" about

Andrews' Premier Strain Barred Rocks

My "Hall of Fame" contains dozens of blue ribbons, cups, A. P. A. gold medals, color and shape specials, trophies, championships and sweepstakes prizes. These great winnings have been made by birds owned, bred and exhibited by me.

My Pens are now mated up, and I am booking orders for eggs from these sensational champions at

\$10

for setting of 15

Why not infuse the prize-winning blood of Andrews' Premier Strain into your flock? It will put you in the front rank of Barred Rock fanciers. In my great conditioning houses and yards I have many males and females ready to win honor and prizes for you, as well as improve your strain. I will sell them to you very reasonably. Write me about your needs.

Send for Beautiful Art Catalog

O. B. ANDREWS, Box A-303, Chattanooga, Tenn.

Originator-Breeder America's Premier Strain Barred Rocks

Aldrich Wh. Orpingtons

— Are National Champions —



1st Ckl. Madison Sq. 1915-16
Chicago Coliseum, Dec. 1915

and photos of our National winners, together with prices of Stock and description of our mated pens.

Have won 268 prizes during the last five years at Chicago Coliseum, Buffalo, St. Louis, Pittsburg, Cleveland, Atlanta, Allentown and Madison Sq. Garden, and have also been consistent winners in the National Laying contests, for several years.

Our cockerel which won first prize at Chicago Coliseum, in December and also first at Madison Square Garden, Dec. 31, is the only White Orpington ckl. that has won first at both exhibitions, making him, undoubtedly the

Champion White Orpington Male of America

Do you want the most beautiful, hardiest, and quickest growing variety of fowl, with **High Egg Production and Show Qualities Combined?**

Then try the White Orpingtons and send for our beautiful catalog and mating list with color plates

ALDRICH POULTRY FARM 5072 N. HIGH STREET COLUMBUS - OHIO

SILVER PENCILED WYANDOTTES—Horace Havemeyer, 1-3 cock, 3-4 hen, 2-3-4 ckl, 4-5 plt, 1 pen; A. L. Hathaway, Abington, Mass., 2 cock, 5 ckl, 1 plt; F. W. Rogers, Montello, Mass., 1-2 hen, 1 ckl, 2-3 plt.

BLUE WYANDOTTES—Cloyd C. Rose, Olney, Ill., 1 cock, 1-2 hen.

BLACK JAVAS—C. Roland Ballentine, Portsmouth, Va., 1 cock, 2 hen; Morton & Gregory, Albany, N. Y., 1 hen, plt; Geo. Hartman, 3 hen.

MOTTLED JAVAS—Morton & Gregory, 1 cock, plt, 3 hen; A. E. Stuber, 1-2 hen, 1 ckl.

DOMINIQUE—Frank S. Benson, Glen Ridge, N. J., 1-3 cock, 1-2-3 hen; Abel Weeks, Tarrytown, N. Y., 2 cock, 4 hen, 1-2 ckl, plt, 1 pen.

S. C. RHODE ISLAND REDS—Rock Ledge Farm, Southboro, Mass., 1 cock; B. McL., Quackenbush, Darien, Conn., 2 cock, 5 hen; Schenley Heights Poultry Farm, 3 cock, 2 hen; J. B. Hendrickson, Ridgewood, N. J., 4 cock, 3 plt, 1 pen; I. W. Bean, So. Braintree, Mass., 5 cock, plt, 3 ckl, 2 pen; F. W. C. Almy, Tiverton, R. I., 1 hen, plt; H. P. Deming, Winstead, Conn., 3 hen;



Third hen S. C. Reds, Madison Square, 1916. A bird with rich red color, black tail and wing markings. H. P. Deming, Winstead, Conn.

B. H. Scranton, Rising Sun, Ind., 4 hen, 1 ckl, 2-4 plt, 1-3 pen; Chas. S. Hudson, New Baltimore, N. Y., 2 ckl; J. C. Stevens, W. Springfield, Mass., 4 ckl; Carter & Hanlon, 5 ckl; Mirimichi Poultry Farm, 5 pen.

R. C. RHODE ISLAND REDS—I. W. Bean, 1-2-3-5 cock, 3 hen, 1 ckl, pen, 2 plt; Schenley Heights Poultry Farm, 4 cock, 2 hen; F. W. C. Almy, 1-4 hen, 4 ckl, 1 plt; Harold Tompkins, Concord, Mass., 5 hen, 2-3-5 ckl, 5 plt, 3 pen; A. Eugene Alden, W. Bridgewater, Mass., 3 plt; D. P. Hone, Sharon Springs, N. Y., 4 plt.

BUCKEYES—H. W. & M. B. Deem, Eaton, O., 1 cock, hen; Chas. E. Cram, Carey, O., 1 ckl.

LIGHT BRAHMAS—Balch & Brown, Manchester, Conn., 1-2-4 cock, 1-3-5 hen, 1-3-4 ckl, 1-2-3 plt, 1 pen; Harvey C. Wood, Decatur, Ill., 3 cock, 4 hen, 2 ckl, pen, 5 plt; Klee Bros., Blauvelt, N. Y., 5 cock, 3 pen; Minch Bros., 2 hen, 4 plt; A. Stetler, 5 ckl; John A. Gamewell, Little Silver, N. J., 4 pen; Old Oak Yards, Buckland, Conn., 5 pen.

DARK BRAHMAS—Newton Adams, Utica, N. Y., 1 cock, 2-3 hen, 4-5 ckl, 3-4 plt, 1 pen; H. C. Lane, Petersboro, N. H., 2 cock, ckl, 5 plt; David V. Stewart, Clroversville, N. Y., 3 cock, 1 hen; H. O. Havemeyer, 4 cock; W. H. Besuden, 4-5 hen, 1-3 ckl, 1-2 plt, 2 pen.

BUFF COCHINS—Allen B. Ingram, West Chester, Pa., 1-2 cock, hen, ckl, plt, pen; W. N. Watson, Sunbury, Pa., 3 cock.

PARTRIDGE COCHINS—Minch Bros., 1-3 cock, 5 hen, 3-4 ckl, 4-5 plt; Baylies Bros., Taunton, Mass., 2 cock, 1-2-4 hen, 1-2 ckl, 1-2-3 plt, 1 pen; Loyd Van Sciver, 4 cock, 3 hen.

BLACK LANGSHANS—M. S. Barker, Thorntown, Ind., 1-2-5 cock, 1-3-4-5 hen, 1-2-4 ckl, 2-4 plt, 1-2 pen; Alex N. Warner, Titusville, Pa., 3 cock, ckl, 2 hen, 1 plt; A. Blackburn, New Rochelle, N. Y., 4 cock, 3 plt; W. A. Meyer, Bowling Green, Mo., 3 pen; Elm Poultry Yards, 4 pen; Elias C. Vail, Verbank, N. Y., 5 pen.

S. C. BROWN LEGHORNS—Grove Hill Poultry Yards, Waltham, Mass., 1 cock, plt, pen, 2 hen, 3-5 ckl; Williams Bros. & Brace, Los Angeles, Cal., 2-3-5 cock, 1-4 hen, 2 ckl, 4-5 plt; Rockefeller & Hubbard, New Haven, Conn., 4 cock, 3-5 hen, 3 pen; C. Sidney Cook, Jr., W. Newton, Mass., 1 ckl; H. V. Tormohlen, Portland, Ind., 4 ckl;

Gerber's White Leghorns WIN AGAIN AT ST. LOUIS

NOVEMBER 22ND TO 30TH 1915

1st and 2nd Cock, 1st Hen, (one entered). Eleven birds shown, eight being placed at this great National Show. Satisfaction guaranteed with every order. Catalog free. Write today.

G. J. GERBER - Box 188 - DALTON, OHIO



1st prize Ck. St. Louis, 1915

S. C. WHITE LEGHORNS

Parkside Strain Line-Bred

The Bred Winners

EGGS

From First Prize
Chicago Winners

\$5.00

Per Fifteen

CHICKS

From First Prize
Chicago Winners

\$10.00

Per Dozen



First Pen Cock, Heading
Grand Champion Pen
Chicago, 1916

Winners at the Great Chicago Show, 1916, the
largest show ever held in Chicago.

Easling Wins Again

and not only repeats his former success but wins the most
coveted prize in the whole show, **Grand Champion
Pen** of the show, with all varieties competing and with it
goes the **LARGEST SILVER CUP OFFERED**.

Parkside Strain is Line-Bred, I mean birds bred in line
for over ten years without the introduction of outside blood.
BIRDS bred up to the highest state of perfection and each
year's stock showing great improvement over those bred in
previous years. Every bird exhibited or sold, is bred and raised
on this farm. My catalog shows photos of their ancestors.
This is the place to come for honest birds, that will reproduce
themselves. I have thousands of satisfied customers, and
furnish quality at reasonable prices. I have plenty of breed-
ing stock to offer and **Conditioned Exhibition Birds**
that will win anywhere. Write your wants.

BRED-TO-LAY STOCK

I have a limited amount of stock in **mated-up pens** to offer
at reasonable prices, also **males** and **females**.

CHOICE EGGS FROM TRAP-NESTED HENS
with records of over 200 eggs a year.

I can furnish you good ordinary Breeding Stock, also incu-
bator eggs and day old chicks in lots of 100 to 1000.

THE PARKSIDE POULTRY FARM

Box 40

N. P. Easling, Prop.

PEKIN, ILLINOIS

Bakersfield, Cal.

Dear Sir:—When it comes to
Parkside Leghorns I cannot speak too highly
of their quality and your treatment. The dif-
ferent breeders out here say that you are the
only **EASTERN FANCIER** who ever sends a
California his full money's
worth.—W. J. Coombs.

Irondale, Wash., Nov. 9, 1914.

Dear Sir:—Obtained 11 chicks
from a setting from pen No. 5, 12 chicks from
pen No. 4, and the shipment was delayed 6
days in Seattle by the Express Co. We shall
always be ready at any time to speak a good
word for your stock and your
treatment of customers.—Mrs. R.
H. Lowrey.

Lockport, Ill., Jan. 13, 1915.

Dear Sir:—From stock which I bought of
you, I entered four birds at the January, Joliet,
Ill., show, winning 1st chl., 1st hen and 2nd chl.
A record I am quite proud of.—Herbert Food-
isch.

Strasburg, Mich., Jan. 4, 1915.

Dear Sir:—I am more than
pleased with the chickens I raised from the
eggs bought of you. I do not exhibit but in-
tend to when I have more of the same strain.
I would advise anyone wanting prize winners
to give **PARKSIDE STRAIN** a
trial.—Wm. G. Geneler.

Gridley, Ill., Jan. 9, 1915.

Dear Sir:—From eggs I bought
of you I raised the 1st, 2nd and 3rd chl. and 1st
and 2nd pen at Bloomington, Ill., show. Also
entered one chl. at Mt. Pleasant and won 1st
and sweepstakes. At Champaign I entered a
chl. and won 1st and champion
male.—W. H. Settle.

Lancaster, Ohio, Dec. 28, 1914.

Dear Sir:—I won 2nd and 5th
on cockerels at the Ohio State Show on birds
hatched from the eggs I got from you, and will
want more eggs again next Spring.—Fred
Stuck.

Bay City, Mich., Nov. 12, 1914.

Dear Sir:—Of eggs received
from you I hatched some of the finest birds
ever seen. I raised two cockerels in particular
which I would not part with for less than \$50
each. One has the same type of your first
Chicago cockerel 1914, and his
color is nearly perfect.—E. J.
Keena.

Moose Jaw, Sask., Can., Aug. 12,
1914.

Dear Sir:—Think it is about time I wrote
and thanked you for the way you treated me.
From the setting of eggs I hatched 32 fine
chicks. Have one cockerel raised from these
chicks that I consider the best
bird I have ever seen and I would
not take \$50 for him.—Thomas
Gibbs.

Anderson, Ind., Nov. 9, 1914.

Dear Sir:—Hatched 11 chicks
from the \$5.00 setting of eggs I bought of you.
In September I entered 4 pullets of this lot at
the Indiana State Fair, and got 1st and 2nd
prize. This is sure going some. \$150.00 would
not buy the birds we raised from
this setting.—Parker S. Short.

Beloit, Wis., Jan. 5, 1915.

Dear Sir:—On eggs purchased
from you in 1914 we won 1st and 2nd cock-
erel, 1st pullet and 1st pen. We also won 1st
hen and 1st cock on stock raised from your
1912 matings in a strong competition. Thanks
for your courteous treatment.—
Guy S. Lee.

Davenport, Wash., Dec. 21, 1914.

Dear Sir:—Entered 2 pullets at
the Spokane Poultry Show that were raised
from the setting of eggs we got of you, and
won 2nd pullet in strong competition with 1600
in the show. These birds certainly have the
true Leghorn type.—R. R. Cath-
cart.

Portland, Ind.

Dear Sir:—We won 1st on chl.,
1st on pullet and 1st on display at our County
Fair. These chickens were hatched from the
eggs we bought of you last March. We are
proud of our birds and presume you feel inter-
ested.—J. A. Elder & Son.

West Burlington, Ia., Jan. 4, 1915.

Dear Sir:—At Iowa State Poul-
try show won 1st and 3rd chl.; 1st, 2nd and 3rd
pullet; 2 silver cups, also A. P. A. medal for
best bird in Mediterranean class; only entered
5 birds. Our 1st pullet was the most attractive
bird at show. Thank you for fair
dealing.—Fritz Bros.

Peoria, Ill., Dec. 7, 1914.

Dear Sir:—From the setting of
eggs I purchased from you last Spring I raised
two choice cockerels, either one of which is
worth double the price of the eggs. I showed
one at the Peoria show and won 2nd prize on
him.—Rud Eberhardt.

Franklin, Tenn., Jan. 5, 1915.

Dear Sir:—I got 11 chicks from
the 15 eggs I purchased from you last Spring
and consider this very good for the distance
the eggs had to come. I think a whole lot of
the birds I raised and wouldn't care to part
with them.—Jesse J. Reams.

Why
Pay
More?

Why
Pay
More?

A TESTIMONIAL AND A WINNER IN EVERY EGG

1st Wh. Wyandotte Cockerel New York

(Madison Square Garden); also 1st cock, and 1st pen male, 1915, 1st Boston cock, 1st cockerel and 1st pen male, 1914, 1st Guelph cock (the Madison Square Garden of Canada) and 1st cockerel, which was also awarded.

Sweepstakes for best bird in the entire show

are all in our breeding pens, and when we tell you we have twenty pens headed by New York and Boston winners, you will have some idea of the exceptional quality of the now famous Premier Strain of White Wyandottes—"the kind you'll eventually buy."

Special Sale of Breeders

Owing to lack of accommodation, we are sacrificing 200 breeders at \$3 and \$5 for females and \$5, \$10 and \$15 for males, as we simply must have room. The quality will surprise you and we positively guarantee satisfaction.

OUR LIGHT BRAHMAS

practically made a clean sweep at Guelph and Detroit, and at the former show were awarded

Sweepstakes for four best birds of any breed

CATALOG FREE EGG ORDERS BOOKED NOW

SAUNDERS & WILLIAMS Box A Ingersoll, Ont., Can.
(LIFE MEMBERS A. P. A.) SID. SAUNDERS, (President Canadian White Wyandotte Club) DR. RALPH WILLIAMS

Homestead Silver Campines The Vigorous Strain

Our birds' established reputation for health, vigor, early maturity and heavy laying qualities speaks for itself; this in addition to their blue ribbon records is proof positive that they are most desirable.

WINNINGS—Boston, January, 1915—1-2-3 Cock, 1-2-3-5 Cockerel, 1-2 Hen, 2-3 Pullet, 1-2 Exhibition Pen, 1 Display. **Palace Show, N. Y., 1915**—1-4 Cock, 1-2 Hen, 1-5 Cockerel, 2-4 Pullet, 2 Exhibition Pen, 1 Display, Special for Color and Type 1st Hen, Special for Color 1st Cockerel. **New York State Fair, 1915**—2 Cock, 1 Hen, 3-5 Cockerel, 2-3 Pullet, 1 Old Exhibition Pen, 2 Young Exhibition Pen. **Thirty-nine Specials.** At Boston, 1916—Cock, 1-2-3-5-6; Hen, 1-2-3-4; Cockerel, 1-3-4; Pullet, 1-3-5-6; 1st and 2d Exhibition Pen; 1st Display; American Campine Club Special for Best Cock, Hen, Cockerel, Pullet and Pen.

Can we be of service to you in either stock or eggs, prices of which are as follows: single birds, \$5 and upward; trios, \$20 and upward; breeding pens, \$30 and upward. Eggs, \$5 per setting of 15 eggs; \$11 per 50; \$20 per 100. Selected eggs from our best pens, \$10 per 15 eggs; \$25 per 50. We are giving our patrons the full benefit of every pen and every prize winner.

Our aim is **FULL VALUE, QUALITY and SATISFACTION**

Homestead Campine Farm, Box A, Wayland, Mass.

Mapleside Bred-to-Lay

Barred Plymouth Rocks

ACKNOWLEDGE NO SUPERIORS AS LAYERS

Fully 54% of all 1914 Pullets on hand Jan. 8, 1916, averaged 202 eggs each in one year.

Pedigreed Stock, Superb Breeders, Day-Old Chix, Eggs for Hatching, all at let-live prices.

Circular of Facts Free

O. F. MITTENDORFF, Box F, Lincoln, Ill.

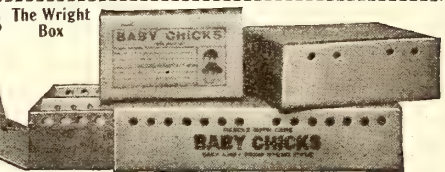


**290 EGGS
IN ONE YEAR**

Egg and Chick Shipping Boxes



Light,
Strong,
Safe
and
Collapsible



Write for prices and ask about our Day-old Chicks and Eggs for hatching.

TYWACANA FARMS POULTRY CO. Box 53 **FARMINGDALE, L. I., N. Y.**

World's Champion S. C. White Leghorns

Cockerels for sale bred direct from The World's Champion Laying Pen composed of ten hens from Tom Barrons' Pen O, international contest winners, 1914, at Mountain Grove, Mo. They are large, vigorous cockerels in good condition and health, March and April hatch. Absolute satisfaction guaranteed. Write today for descriptive circular.

ULTRA-AVES POULTRY FARM

M. H. WAUGH, Proprietor. : 511 Loucks Avenue : PEORIA, ILLINOIS

Champion BARRED Rocks

After my sweeping victories at Allentown, Hagerstown, Augusta, Ga., and Hanover, my birds made the following wins, Gettysburg, Pa., in a hot class: 1-2-4 Cock, 1-2-3-4 Hen, 1-2-3 Cockerel, 1-2-3 Pullet, 1-2 Pen, all specials and best bird in American class. At Philadelphia, Pa., the most coveted prize in the class, 1st Cockerel; also 2d Cock and 2d Pen. Book your egg orders now. A small lot of stock yet.

C. GUY MYERS

SIDDONSBURG, PA.

"QUALITY" GOLDEN WYANDOTTES

Winners at Wisconsin's leading shows and Chicago Coliseum show, 1915. Winning 1st Cock and 1st Hen in strong competition. Eggs at \$3.00 and \$5.00 per setting. Some stock.

F. S. CLAUSEN

OCONOMOWOC, WIS.

43 Varieties

Poultry, Squab-breeders, Fancy Pigeons, Ducks, Geese, Pea Fowl, Pheasants, Wild Game, Dogs, Incubators. Feed and Supplies. Handsome catalog in colors free.

MISSOURI POULTRY & SQUAB CO.

Dept. R

KIRKWOOD, MO.

Chas. J. Morris, 2-3 plt; H. O. Havemeyer, 2 pen.

S. C. WHITE LEGHORNS—D. W. Young, Monroe, N. Y., 1-2-3-5 cock, 1-3 hen, 1-2-3 ckl, 2-4-5 plt, 1-2 pen; Wilburtha Poultry Farm, Trenton Junction, N. J., 4 cock, ckl, 3 plt, pen; Rancocas Poultry Farm, Brown's Mills, N. J., 2 hen, 5 ckl, pen; Elm Poultry Yards, 4-5 hen, 1 plt; Chas. F. Schwab, Bradford, Pa., 4 pen.

S. C. BUFF LEGHORNS—Monmouth Farms, Frenau, N. J., 1 cock, 2 hen, 1 pen, 1-3-4 ckl, 1-3 plt; Wilburtha Poultry Farm, 2-5 cock, 3 hen, 2 pen; Wright & Cruse, Winchester, O., 3 cock; J. W. Biddings, Sunbury, Pa., 4 cock; Martin F. Fielder, 1 hen; L. E. Merihew, Marathon, N. Y., 4 hen, 2-5 plt, 2 ckl, 3 pen; Thornycroft Buff Leghorn Farm, 5 hen, pen; Geo. W. Rex, Slatedale, Pa., 5 ckl; Pastime Poultry Farm, Allentown, Pa., 4 plt; Orange Poultry Yards, Manhasset, L. I., N. Y., 4 pen.

S. C. BLACK LEGHORNS—Turtle Point Farm, Saratoga Springs, N. Y., 1-2 cock, 1-2 hen, 1-2-3 ckl, 2-3 plt, 1 pen; Mark E. Johnson, Atlanta, Ga., 2-5 hen; Louis S. Grenner, Bayport, L. I., N. Y., 4 ckl; Pastime Farm, 4 hen, 1 plt.

S. C. SILVER LEGHORNS—Turtle Point Farm, 1 cock, 1-3 hen, 2 plt; Wm. E. Crevoiserat, Freeport, N. Y., 2 hen; A. F. Spangler, East Orange, N. J., 1 ckl, plt.

R. C. BROWN LEGHORNS—W. T. Liddell & Son, Greenwich, N. Y., 1 cock, ckl, 4 plt; W. W. Kulp, 2-3 cock, hen, 1-2 plt;



Female of first prize pair Pearl Guineas, Madison Square, 1916. Owned by S. A. Howell, Riverhead, N. Y.—P. K. W.

H. A. Brush & Son, Milton, Vt., 4 cock, 2 ckl; Kerlin Farms, 1 hen; B. H. Smalley, New Canaan, Conn., 4 hen, 3-5 plt.

R. C. WHITE LEGHORNS—Turtle Point Farm, 1 cock, hen, ckl, plt; Louis H. Perry, Clay, N. Y., 2 cock, ckl; Geo. M. Shriver, 2 hen, 2-3 plt, 1 pen; J. M. Chase, Ramapo, N. Y., 3 hen.

S. C. BLACK MINORCAS—Yama Farms, Napanoch, N. Y., 1-4 cock, 4 ckl, 2 plt; Frank McGrann, Lancaster, Pa., 2-3-5 cock, 1-2-3-5 hen, pen, 1-2-3 ckl, 1-3-5 plt; R. H. Anderson, Lynchburg, Va., 4 hen, 5 ckl; Alvin Smith, Fort Salonga, N. Y., 4 plt, pen.

S. C. WHITE MINORCAS—T. D. Brown, Muskogee, Okla., 1 cock, ckl, 1-2 hen, plt.

S. C. BUFF MINORCAS—Marble Benoit, Montello, Mass., 1-2 hen; Edw. J. Campbell, Cedarhurst, N. Y., 2 ckl, 1 plt.

R. C. BLACK MINORCAS—Norman Bentley, Gardiner, 1 hen; J. M. Wilcox & Sons, Wilkes-Barre, Pa., 2 hen.

R. C. WHITE MINORCAS—Geo. H. Chase, 1 cock, hen, plt, 2 ckl; Henry J. Kling, Fultonville, N. Y., 2 hen; E. G. Hopkins, Penn Yan, N. Y., 1 ckl, 2 plt.

WHITE-FACED BLACK SPANISH—R. A. Rowan, Los Angeles, Cal., 1-2-3 cock, hen, ckl, plt; Edw. King, Amsterdam, N. Y., 4 cock, hen, plt.

BLUE ANDALUSIANS—Wm. Orlando Jennings, Chicago, Ill., 1 cock, 3 hen, 4 plt; E. D. Bird, 2 cock, pen, 5 hen, ckl; L. S. Hood, Taunton, Mass., 3 cock; V. H. Council, 4 cock, 1-2 hen, 1-3 ckl, plt, 1 pen; David A. Burr, Morristown, N. J., 5 cock; John McKibben, 4 hen; J. E. Bliss, Clinton, Conn., 2 ckl, 5 plt; Shadylane Poultry Farm, North Girard, Pa., 4 ckl, 2 plt.



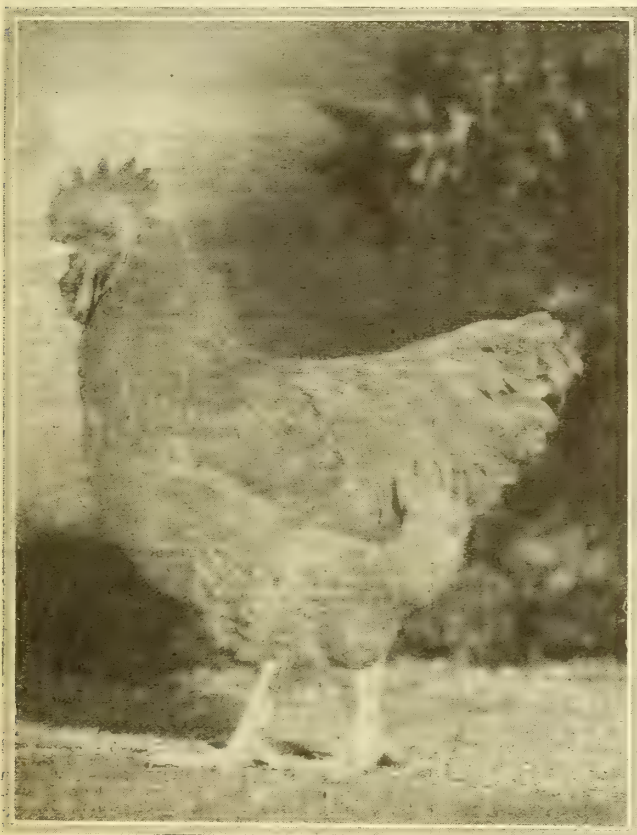
The "BEST YET" Aluminum Leg Band Cannot come off, comes bent ready to apply. 5 sizes, pigeon to turkey. State breed. 12, 15c; 25, 20c; 50, 35c; 100, 60c. No stamps. Also colored leg bands and seamless pigeon bands. Circular free. Aluminum Marker Works, Dept. J Beaver Falls, Pa.



E. B. Thompson, Amenia, N. Y., showed probably the best Barred Plymouth Rocks ever exhibited at the Madison Square Garden Show, 1916. The picture above of the first cockerel shows unusual quality in type and most beautiful barring.—L. A. S.



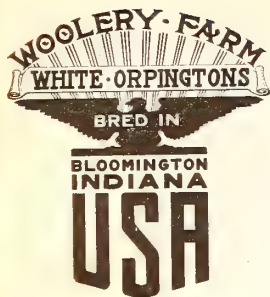
A winner in the White Orpington cock class, Madison Square, 1916. Owned and bred by Ralph Woolery Co., Bloomington, Ind.



Third Buff Orpington cockerel, Madison Square, 1916. A bird almost perfect in color and type. Bred and owned by Chas. Hubbard, Lime Rock, Conn.—P. K. W.



At Madison Square in a class composed of thirty birds represented by some of the best S. C. Red breeders of the country, this bird won second pullet. Bred and owned by B. H. Scranton, Rising Sun, Ind.



CHICAGO, DECEMBER, 1915

A SWEEPING VICTORY FOR
OUR AMERICAN Bred-To-Lay

White Orpingtons

First display; special best three cocks; special best four females; special best two young pens; 1st hen, 1st young pen; 2, 4, 5 cock, 5 hen, 3 cockerel, 3 young pen. This show declared by judge the best quality show to date. We made this best winning ever made on Whites at Chicago and with every bird for the

past seven generations, American Bred-to-lay, Line Bred on Woolery Farm by Ralph Woolery.

If you want the best winners for any show, or breeders, birds that have the laying ability and individuals that will breed you winners, write us for quotations from the "Best Line of Males in the Country." We'll sell you a bird to show and win anywhere; ship him in perfect condition, at a fair price. We can send you a Cock, Hen, Cockerel, Pullet or Pen to win as easily. Our yards are mated now for the egg trade. Our mating list is ready. Write for it and big free catalog today.

WOOLERY FARM

Box A

BLOOMINGTON, IND.



RILEY'S White Wyandottes

Broke all records at the Ohio State Fair, September, 1915, winning six firsts, three seconds and two thirds. The quality of my exhibit was freely commended by both judges and breeders. This, together with my winnings of December, 1914, at the Great Coliseum Poultry Show and Toledo, proves their quality as breeders. They are bred to lay with the same care they are bred to win. Why not try the strain that wins as well as lays? Eggs from pens headed by my winners at \$3.00, \$5.00 and \$10.00 per 15 eggs. Some nice Cockerels at \$5.00, \$7.50 and \$10.00. Send for catalog.

Get my price on winners for your show.

H. J. RILEY

BOX A

BRYAN, OHIO



EGGS or CHICKS From Our Vigor- ous, Healthy — Bred-to-Lay S. C. WH. LEGHORNS

will start you right and our prices are in reason. At least get our free, illustrated catalog before ordering elsewhere. Big, healthy, vigorous cockerels at \$1.50, \$2 and \$3 each.

The Elliott Poultry Farm, Box 87, R. 7

Mansfield, Ohio

Rose Comb Bl'k Minorcas

PHILBERT STRAIN

Winners at shows for five years past. Breeding pens are mated with my 1st Cockerel and champion male bird at Dayton, O., 1915. State meet of International R. C. Black Minorca Club and 1st Cock'l at meet of the I. N. R. C. B. M. Club, Cleveland, Ohio, January 1916.

Orders for eggs from these choice matings now being booked.

PHILIP J. MINCH

1907 East 97th St.

CLEVELAND, O.

Ward's Champion Buff Ply. Rocks

I have the finest lot of exhibition and breeding cockerels I ever raised now for sale. No matter what you pay, no one can furnish you better quality than I can. Special egg orders for February, \$3 for 15, from best pens. Eggs sent when you want them.

THE BUFF ROCK MAN.

R. W. WARD, Normal, Illinois

GOLDEN WYANDOTTES

of my own breeding won 1st Cock, 2d Cockerel, 2d Pullet, 2d Pen and 3d and 6th Hen at the World's Fair, November, 1915. No eggs or baby chicks for sale, but have 100 pedigreed Cocks, Hens, Cockerels and Pullets for sale, 200 egg strain, that win for me and my customers at Chicago and other large shows. Thirty Buff Wyandottes and Silver Campines from blood lines that win at Illinois and Missouri State shows. Write for circular.

J. S. PENNINGTON - Sec'y, Nat'l Golden Wyandotte Club - Box A, Plainfield, Ill.

HUBBARD'S BUFF ORPINGTONS

Winners at Madison Sq. Garden, January, 1916

If you want quality birds that win, get the Hubbard Strain. Hatching eggs at reasonable prices. Write for mating list. C. H. HUBBARD, Mgr., Foxhurst Farm, P. O. Box 52, Lime Rock, Conn.

S. C. ANCONAS — Mrs. W. B. Kent, Coatesville, Pa., 1 cock, 5 chl, 4 pen; H. Cecil Sheppard, 2-3 cock, 2-3-4 hen, 1-3 chl, 1-3-4-5 plt, 1 pen; Geo. W. Cisco, Paterson, N. J., 4 cock, 3 pen; Elias C. Vail 5 cock, 1 hen, 2 chl, plt, 2-5 pen; Frank C. Stier, Cleveland, O., 5 hen; A. E. Wohlert, Narbeth, Pa., 4 chl.

R. C. ANCONAS — H. Cecil Sheppard, 1-2-3-4-5 cock, 1-2-4-5 hen, chl, plt, 1-2 pen; C. H. Mills, Warner, O., 3 hen; J. O. Somers, Bedford, O., 3 chl, plt, pen.

SILVER CAMPINES — M. R. Jacobus, 1 cock, 1-2 hen, 1-4-5 plt, 3 pen; Martling Henney, Ridgfield, N. J., 2-3-5 cock, 5 hen, 1-2-3-5 chl, 2 plt, 1-2-4 pen; Jos. Chadwick, Jr., Newburgh, N. Y., 4 cock, hen, 3 plt; Geo. E. Deleruyelle, Vineland, N. J., 3 hen, 4 chl; Dr. J. C. McPherson, 5 pen.

GOLDEN CAMPINES — Martling Henney, 1 cock; M. R. Jacobus, 2 cock, 1-2-4 hen, 2-3 chl, 1-2-3 plt, 1 pen; Dr. J. H. Prudhomme, 3 hen, 4 plt; C. A. Hettema, 1 chl, 5 plt.

S. C. BUFF ORPINGTONS — Sunswick Poultry Farm 1-5 cock, 1 chl, 2 pen; Owen Farms, Vineyard Haven, Mass., 2-4 cock, chl, 1-5 hen, 1 plt, 1-4 pen; Lucknow Farms, Darien, Conn., 3 cock, 3-5 plt, pen; Hubbard's Buff Orpingtons, Lime Rock, Conn., 2 hen, plt, 3-5 chl; Henrietta E. Hooker, S. Hadley, Mass., 3 hen; J. J. Graves, Redwood City, Cal., 4 hen; Lassiter Orpington Yards, Richmond Va., 4 plt.

S. C. BLACK ORPINGTONS — Foxhurst Farm, Lime Rock, Conn., 1-2-3-4 cock, hen,



One of the best specimens of R. C. White Leghorns exhibited this year. Winner of second cockerel Madison Square Garden, 1916. Owned by Louis H. Perry, Clay, N. Y.

1-2-3-4-5 chl, plt, 1 pen; R. L. Broome, Westfield, N. J., 5 cock; Lassiter Orpington Yards, 5 chl.

S. C. WHITE ORPINGTONS — Morris Poultry Farm, Lebanon, O., 1 cock, 1-4 hen, plt, 2 chl, pen; Ralph Woolery Co., 2-5 cock, 3 hen, 4 chl; Robert Christie, Mt. Hamilton, Ont., Can., 3 cock, pen, 2 hen; L. F. Loree, West Orange, N. J., 4 cock; Warner & Greene, 5 hen, chl, 2-3-5 plt; Aldrich Poultry Farm, Columbus, O., 1 chl, 5 pen; John A. Stuart, Short Hills, N. J., 3 chl, 1 pen; E. Greider, Jr., Paterson, N. J., 4 pen.

BLUE ORPINGTONS — Mrs. Ed. Brown Jenks, Yonkers, N. Y., 1 cock; H. E. Chalis, Plaiston, N. H., 2 cock, plt, 1 chl, pen; Estate of E. R. Collins, Richmond Hill, L. I., N. Y., 3 cock; Garvey McKee, Watertown, Tenn., 4 cock; Wm. Cook & Son, 5 cock; Henrietta E. Hooker, 1-4 hen, 3 plt; E. B. Rogers, Cincinnati, O., 2-3 hen, 4 pen; W. W. Deissler, Chestnut Hill, Philadelphia, Pa., 5 hen; Dr. W. E. Creath, Ottumwa, Ia., 2 chl, 5 plt, 2 pen; Mrs. J. F. Beauchamp, Highland Springs, Va., 3 chl, 4 plt; Wyndehill Farms Ossining, N. Y., 4 chl; B. C. Roecker Phillipsburg, N. J., 1 plt; N. B. Hartman, Grantwood-on-Hudson, N. J., 3 pen.

R. C. BUFF ORPINGTONS — B. C. Roecker, 1 cock, hen, chl, plt.

R. C. BLACK ORPINGTONS — Rev. W. W. Russell, 1-2 hen.

R. C. WHITE ORPINGTONS — R. J. Weston, Hamilton, Ont., Can., 1 hen; Fred Yabs, E. Bridgeport, Conn., 2 hen, 1 plt.

SILVER GRAY DORKINGS — Watson Westfall, Sayre, Pa., 1-2 cock, hen, 1 chl, 1-2-3 plt; Alice Hales, Ridgewood, N. J., 3 cock, 2 chl, 4-5 plt; P. J. Grathwohl, Hackensack, N. J., 4 cock.

COLOR DORKINGS — Jos. R. Cuspin, Magnolia, Mass., 1 cock, 1-2 hen.

DARK CORNISH — F. H. Clement, 1-2 cock, 3-5 hen, 2 chl, 1 plt; Dr. W. A. Loew, New York City, 3 cock, 2 hen; Tar River



Notice the regular, sharply defined narrow barring. Winner of first Barred Rock cockerel, Boston, 1916. A greatly admired bird. Bred and owned by W. W. Carpenter, East Providence, R. I.—P. K. W.



R. C. R. I. Red, hen class at Madison Square, 1916, not so large, but quality of the best. This bird was winner of first hen. Bred and owned by F. W. C. Almy, Tiverton Four Corners, R. I.—P. K. W.

The Oakes Line of Poultry Supplies

is the most complete on the market and every article is full size and full weight made for service and not just to sell. We use nothing lighter than No. 28 gauge

galvanized steel and many parts are made of No. 26 and No. 24.

Do not invest in any kind of poultry appliances until you have examined our line and compared it with other makes.

If you cannot buy our goods of your local dealer, send us your order direct and we will give you prompt shipment either from the factory or our warehouse in New York City.

Our New Catalog Issued January 1st, mailed free.

Poultry Supplies, Incubator and Brooder parts, Electric Incubators, Electric Hovers.



The Economy and O. K. Exerciser Feeders Best made. Prices \$1 to \$3



IMPROVED O. K. POULTRY FOUNTAIN Double Walled with Dead Air Space.

THE OAKES MFG. CO.

Department "B"

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New York City

FRESH FISH SCRAPS

Cheapest feed on earth. Solid, Juicy meats. \$2.00 per 100 lbs.

PORT HURON FISH CO., Dept. 91, PORT HURON, MICHIGAN

Fernbrook Farm Wh. Wyandottes

Won at the Great National White Wyandotte Club Meet at Buffalo. Best display by more than double the points scored by our nearest competitor. \$65 in Cash specials. Pen old, 1st; Pen young, 1st; Cock, 2d; Hen 1st, 2d, 4th, 6th; Pullet 3d, 4th, 6th. Forty Exhibitors. Cocks, Hens, Cockerels, Pullets or pens for exhibition or breeding. Catalog FREE.

Fernbrook Farm, Arthur G. Bouck, Mgr., Box A MENANDS ROAD Albany, N. Y.

The Quality Strain of S. C. W. LEGHORNS

Fancy-Utility bred, pullets giving 50% egg yield November 1st. We guarantee every egg or bird we sell. Write us.

J. W. KLEIN - KIEL, WIS.

LAYWELL WH. WYANDOTTES

Bred for Vigor, Laying ability and exhibition quality. Pens mated by Arthur G. Duston. Made clean sweep at the Vermont State Fair, 1915.

Eggs from pens 1-5.....\$5.00 per 15
6-11.....2.00 15

Utility Matings \$1.00 per 15; \$5.00 per 100.

Send for new circular and mating list.

LAYWELL POULTRY FARM Box A Lyndonville, Vermont, U. S. A.

LOST!

Is the effort and feed on your hens during the winter months if they have lice. They will not lay. Come, look after this loss. Get a good remedy while you are at it. Value not measured by bulk, but by effectiveness. An Ointment easily applied. A convincing box pre-paid for 50 cents.

WHITE CITY EGG FARM - SEVILLE, OHIO

Barred Plym. Rocks

1st Prize winners at Louisville and Lexington, Ky. Eggs, 1.50 to \$3 per setting. Mating list Free. C. F. Obermeier, Prop., Shawnee Poultry Yds, 100 N.W. Parkway, Louisville, Ky.

SILVER LACED WYANDOTTES

Utility and Exhibition

EWING & ROMICH Lock Box 393 CRESTON, O.



First Prize Cockerel, Panama Exposition

Chicago Coliseum
Great St. Louis Fair
Illinois State Fair
Indiana State Fair
Kentucky State Fair
Iowa State Fair

Michigan State Fair
Tennessee State Fair
Hagerstown Fair
Aplachin Exposition
Jamestown Exposition
Etc., Etc., Etc.

U. R. FISHEL'S White Plymouth Rocks

have for over twenty years proven their superiority, not only in the show room but as a utility fowl they stand par excellence. My winnings for 1915 and 1914 of First Prize Cockerel at 10 large shows is proof positive they are

"THE BEST IN THE WORLD"

I have over 2,000 Select Breeders to sell. Strong husky farm reared birds carrying blood lines that will reproduce. When buying breeders

You Want Breeders That Produce

and that is what I can give you. My winnings at Six International Expositions, Ten State Fairs and Many Leading Poultry Shows is proof positive of the superiority of the Fishel White Plymouth Rocks. As egg producers, trace the blood lines of hens with great egg records, they all trace back to Fishel's.

Special Sale for February

List free. Send for it before you buy. I give you more value for less money than any one.

Eggs for Hatching
Baby Chicks

U. R. Fishel, Box A, Hope, Ind.

Poultry Farm, 1 hen; Courtland H. Smith, Warrentown, Va., 4 cock, hen, ckl, 3 plt, 1 pen; Mrs. R. Pomeroy, Buffalo, N. Y., 5 cock, 4-5 plt, 3 pen; Floyd Schuyler, Savannah, Ill., 1 ckl; H. H. McCormick, 3 ckl, 2 plt; Daisy S. Ineson, Ansonia, Conn., 5 ckl; J. W. Harvey, 2 pen.

WHITE CORNISH—Mountsville Farms, Mountville, Va., 1 cock, hen, plt, 3 ckl; Samuel G. Greene, West Sayville, L. I., N. Y., 4 cock; Hilltop Poultry Yards, Catsauqua, Pa., 2 cock, 2-3-4 hen, 1-2 ckl, 2-3 plt; Wm. P. Woods, Sayre, Pa., 3 cock.

SPECKLED SUSSEX—Rawnsley-Shields Poultry Farm, 1-3 cock, ckl, 1-2 hen, pen, 2-3 plt; E. K. Conrad, M. D., Hackensack, N. J., 2-4 cock, 4 hen, pen, 2 ckl; Rev. W. Berberich, Groton, N. J., 5 cock, hen, plt; Harvey Ivins, Langhorne, Pa., 3 hen; Howard L. Davis, New Egypt, N. J., 5 ckl, 1-4 plt, 3 pen; T. Cadwallader, Doylestown, Pa., 4 ckl.

LIGHT SUSSEX—Houston Poultry Farm, S. Charleston, O., all 1st.

RED SUSSEX—Houstonia Poultry Farm, 3-4 cock, 1-2-3 hen, 1-2 ckl, 1-3-4 plt, 1 pen; Wm. White, Columbus, O., 1 cock; Chestnut Red Farm, 2 cock, plt, 4 hen; A. A. Carver, Seville, O., 2 pen.

WHITE-CRESTED BLACK POLISH—Wendover Farm, Bermansville, N. J., 1 cock, hen, plt, pen.

BEARDED GOLDEN POLISH—Clara G. Schwenker, 1 cock, hen.

BEARDED SILVER POLISH—W. E. Floyd, M. D., Muskogee, Okla., 1 hen.

BEARDED WHITE POLISH—Ore Lake Farm, Stettlersville, Pa., 1 cock, hen, pen.

BUFF LACED POLISH—Clara G. Schwenker, 1 cock, ckl, 1-2 hen; Ore Lake Farm, 2 cock.

NON-BEARDED SILVER POLISH—Geo. Seely & Son, Chester, N. Y., 1 hen, plt.

BLUE POLISH—Ore Lake Farm, 1-2 cock, ckl, plt.

FRIZZLE POLISH—Ore Lake Farm, 1 cock, hen, ckl, plt.

BLUE CROWN—Frederick F. Lendewig, Central Village, Conn., 1-2-3-4 cock, hen, ckl, plt.

GOLDEN SPANGLED HAMBURGS—Richard Oke, London, Ont., Can., 1 hen, ckl, plt.

SILVER SPANGLED HAMBURGS—Otto Christoph, South Orange, N. J., 1-2 cock, 5 hen; Dr. J. S. Wolfe, Bloomfield, N. J., 3-5 cock, 5 ckl, 4 plt; Robt. Treat Paine, Boston, Mass., 4 cock, 1 hen, 2 ckl; A. L. Leventritt, Tivoli-on-Hudson, N. Y., 2-4 hen, 3-4 ckl, 1-3 plt; J. E. Kirchels, 3 hen; Richard Oke, 1 ckl, 5 plt; Mrs. E. Brown Jenks, 2 plt.

GOLDEN PENCILED HAMBURGS—John A. Gamewell, 1 cock, pen, 1-2-3-4-5 ckl, plt, 2 hen; John Yarbbs, Brooklyn, N. Y., 3 hen; Richard Oke, 1 hen.

SILVER PENCILED HAMBURGS—Ockers & Maasch, Sayville, L. I., N. Y., 1 cock, ckl, plt, 2 hen; Richard Oke, 2 cock, 1 hen.

BLACK HAMBURGS—Richard Oke, 1 ckl, plt.

MOTTLED HOUDANS—W. F. Bast, Phillipsburg, N. J., 1-2 cock, 5 hen, 2-3-4 ckl, 1-2-3 plt, 1 pen; Wyndehill Farm, 3 cock, 4 hen, 5 ckl, plt; Wildwood Farms, Sayville, N. Y., 1-2-3 hen, 1 ckl.

WHITE HOUDANS—H. F. Goemann, Edgewater, N. J., 1 cock; S. A. Howland, Riverhead, N. Y., 1 ckl; Sunnybrook White Houdan Farm, Dobbs, Ferry-on-Hudson, N. Y., 2-3 ckl, 1-2-3 plt.

BLUE HOUDANS—Ore Lake Farm, 1-2 hen.

WHITE FAVEROLLES—Dictograph Poultry Farm, West Nyack, N. Y., 1 cock pen, 1-2 hen, 1-3 ckl, 1-3-5 plt; D. Lincoln Orr, 2-4 cock, 3-5 hen, 2-5 ckl, 2-4 plt, 2 pen; Pastime Farm, 3 cock, 4 hen; Thomas Chandler, Fitchcliffe, N. Y., 4 ckl.

SALMON FAVEROLLES—Elm Poultry Yards, 1 cock, hen, plt; Doughoregan, Manor Farms, Ellicott City, Md., 2 cock, 3-5 hen, 1 ckl, 2-3 plt; W. W. Deissler, 2 hen; Pastime Farm, 4 hen, 2 ckl.

BUFF FAVEROLLES—Pastime Farm, 1 cock, pen, 2 hen, 1-2-3-4 ckl, plt; W. W. Deissler, 1 hen.

EXHIBITION GAME—W. W. Black, Freeport, L. I., N. Y., 3 cock; S. F. Faxon, Schenectady, N. Y., 2 hen.

BLACK SUMATRA—James A. Daley, Mohawk, Mich., 1 cock.

BLACK RED PIT GAME—Richard Markel, Sandusky, O., 1 cock; Wildwood Farms, 1 hen; J. M. Vanderbilt, W. New Brighton, S. I., 2-3 cock, 1 plt, 2 hen; P. H. B. Frelinghuysen, Morristown, N. J., 4 cock, 5 ckl, plt; E. S. & M. H. Dixon, Ardmore, Pa., 5 cock, 2 plt; Chas. Schweiner, 3-4 hen, plt, 1 pen; Clarence Sackett, Rye, N. Y., 5 hen; Samuel Willits, Roslyn, L. I., N. Y., 1 ckl; F. W. Loew, 2-3 ckl; T. J. Foley, Yonkers, N. Y., 4 ckl.

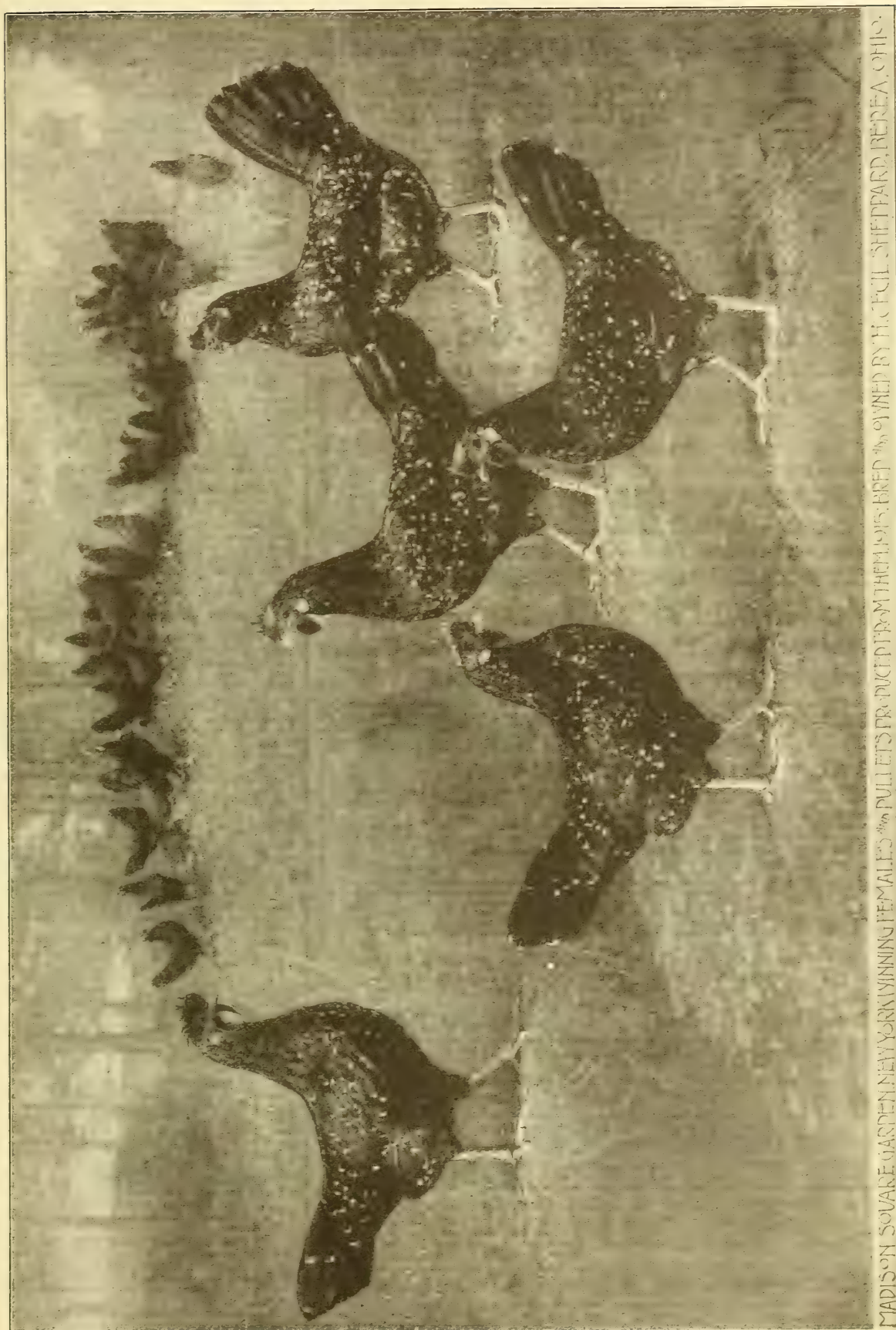
BROWN RED PIT GAME—Harry C. Tim, 1 cock; Wildwood Farm, 2 cock; 1 ckl; John Irwin, New York City, 4 cock, 2 ckl; Samuel Willits, 5 cock, 3 ckl.

BLUE AND BLUE RED PIT GAME—Samuel Willits, 1 hen, plt; P. H. B. Frelinghuysen, 1 ckl.

PYLE PIT GAME—Samuel Willits, 1 cock, 2 ckl; T. J. Foley, 2 cock; Wildwood Farms, 1 ckl.

GRAY AND BIRCHEN PIT GAME—A. M. Niese, Morristown, N. J., 1 cock, hen.

MUFFLED AND TASSEL PIT GAME—Richard Markel, 1 cock; A. M. Niese, 2 cock; J. E. Geraty, Bradley Beach, N. J., 3 cock; Samuel Willits, 4 cock, 1 hen.



MADISON SQUARE GARDEN NEW YORK WINNING FEMALES BRED BY H. CECIL SHEPPARD, BEREA, OHIO.

Sheppard's famous Ancona pullets, first prize winners at Madison Square Garden, 1916. These birds laid when four months and nine days old. The parent stock commenced laying when four months and fifteen days old. Bred and owned by H. Cecil Sheppard, Berea, Ohio.

Barred Plymouth Rocks



BUY your exhibition and breeding eggs from a firm that has been in the business for twenty-five years. No matter what you pay, no one can furnish you superior quality than we can. Thirty-four Premiums at the Kentucky State Fair and Louisville Show this past season, prove the quality of "Pope Strains."

Great Armory Show, Louisville, Ky., Nov., 1915
5 First; 6 Second; 4 Third; 1 Fourth; 2 Fifth and the Grand Trophy for Best Barred Plymouth Rocks

Kentucky State Fair, September, 1915
4 First; 2 Second; 2 Third; 1 Fourth; 3 Fifth

We supply cockerel and pullet bred eggs from the best winners we have, and when you buy eggs from us you get the best in America today. Our quality is wonderful, yet our prices are the lowest of any of the big breeders. You will make a great mistake if you purchase before getting our mating list and catalog. Send for Catalog No. 3.

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Eggs for Hatching and Day-Old Chicks

The Kind that Hatch, Live, Grow and Lay

EGGS FOR HATCHING—We are now booking orders for hatching eggs from fully matured carefully mated, farm raised birds, selected for their prolific laying qualities, vigor and standard requirements. They are the pick of a flock of many thousand birds. We can supply eggs in any quantity from our matings of

SINGLE COMB WHITE LEGHORNS, WHITE PLYMOUTH ROCKS
MAMMOTH PEKIN DUCKS :: :: EMBDEN GEESSE

DAY-OLD CHICKS—We can supply in any quantity from our White Plymouth Rocks and Single Comb White Leghorns. Day-old Ducklings, we can supply in limited quantities.

Write for Circular with Prices.

Send for Our Records in the Connecticut International Egg-Laying Contests.

BRANFORD FARMS

GROTON, CONN.

McClave's Prize Winning—

L. Brahmas, Barred Rocks, Wyandottes, Toulouse and Chinese Geese, Muscovy and Indian Runner Ducks

Three hundred selected birds for sale at reasonable prices. Big winners at the late Panama-Pacific, Chicago, Cleveland and other large shows. Sales Bulletin No. 60 free on application. Farm-grown, prize-quality. Prompt shipment. Satisfaction.

CHAS. MCCLAVE, Box 24, New London, Ohio.

BABY CHICKS OF QUALITY

Eleven Varieties—Kinkers Strain Barred Rocks, White Rocks, White and Brown Leghorns, White Wyandottes, R. I. Reds, White and Buff Orpingtons, Anconas, Silver Campines and Blue Andalusians. 8 Cents each and up.

From best laying strains of pure blooded stock on free range; 12,000 per week. Safe arrival and satisfaction guaranteed. Write for catalog. It's free. We want your orders. Best Colony Brooder Stove made, \$15.00. Order early.

WOLF-HUBER HATCHERY CO., Dept. B Gibsonburg, Ohio

CHESTNUT TERRACE BUTTERCUPS

Winners of the blue at The Palace, Buffalo, Syracuse, Auburn.
A few Cockerels for sale. Orders booked for Eggs for hatching.
Send name for Mating List.

Mrs. Hattie D. Reed

Marcellus, New York

ROSE AND SINGLE COMB WHITE MINORCAS, GOLDEN CAMPINES

America's best. Again Champions at Chicago Coliseum. Exhibition and grand breeders for sale. Satisfaction guaranteed. Catalog.

THOS. BROGDEN, Specialty Breeder

Box C

RUSH LAKE, WISCONSIN

URBAN FARMS

Pine Ridge, Buffalo, New York

Stock and eggs for sale from our prize winning strains. White Rocks, Black Langshans, Anconas. Eggs only from Black-Tailed White Japanese Bantams, Mille Fleurs, Silkies and Tom Barron's best strain White Leghorns and White Wyandottes. Mailing list now ready.

Deming's Single Comb Rhode Island Reds

Again they win at Madison Square Garden; this makes three years that our birds have shown their "class" at the Garden Show. Don't fail to look up their records at the egg laying contests. If looking for stock or eggs that will produce winners and layers for you, write me.

H. P. DEMING, Winsted, Conn.

GOLDEN PENCILED HAMBURG

The Fancier's Fowl. Won the Principal, Regular and Special Prizes at Madison Square, Boston, Palace. A few birds for sale. No eggs.

JOHN A. GAMEWELL

Box 2

LITTLE SILVER, N. J.

Red - CONRAD'S SUSSEX - Speckled

I am the original importer and have bred them many years before anybody else ever thought of them in America. It stands to reason therefore that I am in a position to furnish you with stock or eggs of the best quality. My birds have the type, size and color that is recognized as correct by leading judges of America. My prices are reasonable. Satisfaction guaranteed.

DR. E. K. CONRAD, S. X, Ave., Hackensack, N. J.

DUCK WING PIT GAME—Wildwood Farms, 1 cock; Clarence Sackett, 2 cock, 1 hen, plt.

HENNIE PIT GAME—Wildwood Farms, 1-2 cock, 1 chl, 1-2 plt.

ROUND HEAD PIT GAME—Richard Markel, 1 cock, 1-2 hen; A. M. Neise, 2 cock.

CLAYBOURNE AND WHITE HACKLE PIT GAME—A. M. Neise, 2 cock; Samuel Willits, 3 cock, 1 hen, plt, pen; Wildwood Farms, 4 cock, 1 chl.

ANY OTHER VARIETY PIT GAME—P. H. B. Frelinghuysen, all 1st; Rev. C. T. McCann, 2 chl.

SILKIES—McCammon & Meyers, Gettysburg, Pa., 1 cock, hen, chl, plt, A. C. Bechstein, New Rochelle, N. Y., 2 hen.

SICILIAN BUTTERCUPS—H. Esmay & Son, 1 cock, hen, chl; C. L. Chaffee, Lyndonville, N. Y., 2-3 cock, 5 hen, 3 chl, 4 plt; C. Sydney Cook, Jr., 2-3 hen; Arthur D. Loper, 4 hen, 2 chl; C. D. Shupe, 1 plt, pen; J. Harry Eddy, Saratoga Springs, N. Y., 2 plt; John L. Thomas, Binghamton, N. Y., 3 plt.

LACKENVELDERS—Wildwood Farms, 1-3 cock, 1-2 hen, 2-3-5 chl, 1-2-5 plt; Geo. M. Shriver, 2 cock, 3 hen, 1 pen; L. E. Osgood, 1-4 chl; 3-4 plt.

ANY OTHER VARIETY POULTRY—S. Linzmann, 1 chl; Chas. Longbottom, 1 plt.

BRONZE TURKEYS—Bird Bros., 1-2-3-4 cock, hen, 1-2-4-5 chl, 1-2-3-5 plt; E. C. Spain, Church Road, Va., 5 cock; Spring Brook Farm, Croton-in-Hudson, N. Y., 4 hen; J. S. Miles & Son, Petersburg, Ill., 3 chl, 4 plt.

BOURBON RED TURKEYS—Chas. W. Jones, Holmdel, N. J., 1 cock, hen, chl, plt; Noah Herman, West Salem, O., 2 cock.

WHITE TURKEYS—W. L. Burnett, Montgomery, N. Y., 1-4 cock, 1-2 hen, 2-4 chl, 2-3 plt; M. W. Werner, Myersdale, Pa., 2 cock, 3 hen, chl; Mrs. J. S. Robeson, Richards House, Penn., N. J., 1 cock, chl, plt.

TOULOUSE GEESSE—Edwin H. Morris, 1 old gander, 1 old goose; Westlook Farm, Syosset, L. I., N. Y., 2 old gander, 3 old gander; Spring Brook Farm, 3-4-5 old gander, 2-4-5 old goose; Roy E. Pardee, Islip, L. I., N. Y., 1 yng gander; Miss M. Pomeroy, 2 yng gander, 1 yng goose.

EMBDEN GEESSE—Sara A. Little, Clyde, N. Y., 1-3 old gander, 1 old goose; Spring Brook Farm, 2-4-5 old gander, 2-3-4-5 old goose.

AFRICAN GOOSE—Roy E. Pardee, 1 yng gander.

WHITE CHINESE GEESSE—Mrs. W. P. Masten, Pleasant Valley, N. Y., 1 old gander, 1-2 old goose; Edwin H. Morris, 2 old gander, 1 yng gander, yng goose; Brookhurst Farm, Goshen, N. Y., 3 old gander, goose; A. Albright, 4 old goose.

PEKIN DUCKS—Aldham Poultry Farm, Phoenixville, Pa., 1 old drake, yng duck, 2 old duck, yng drake; Westlook Farm, 2 old drake, 1 old duck; Wendover Farm, Bermonsville, N. J., 3 old drake, 1-3-4 yng drake, 3-4 old duck, 2-3-4 yng duck, 1 pen; Brookhurst Farm, 4 old drake, 5 old duck, 2 pen.

AYLESBURY DUCKS—Edwin H. Morris, 1 old drake, duck; Henry W. Samson, West Branch, N. Y., 1 yng drake, duck.

ROUEN DUCKS—Louis B. Schram, Aylesbury Park, N. J., 1 old drake, 1 pen, 2 old duck; Edwin H. Morris, 1-3 old duck, 4 yng drake, 1-2 yng duck; Aldham Poultry Farm, 2 yng drake, Linstead Farm, 1 yng drake, Edgar M. LeBaron, Misa, Ariz., 3 yng drake.

CAYUGA DUCK—Henry W. Samson, 1 yng drake.

BLACK AND WHITE MUSCOVY DUCKS—Winterthur Farm, 1 old drake, duck; David D. Howells, 2 old drake.

WHITE MUSCOVY DUCKS—Winterthur Farm, 1 old drake, duck; Elm Poultry Yards, 2 old drake; Edwin H. Morris, 1 yng drake; Miss M. Pomeroy, 1 pen.

BLUE SWEDISH DUCK—Edwin H. Morris, 1 yng duck.

EAST INDIAN DUCK—Edwin H. Morris, 1 old drake.

INDIAN RUNNER DUCKS—Thos. H. Mettler, 1 old drake, 3 old duck; Goebel Bros., Morristown, N. J., 2 old drake; Edwin H. Morris, 3 old drake, 1 old duck, 1 yng drake, 2 yng duck; John Slade, Mabern, Pa., 4 old drake, 2 old duck, 2 yng drake, 1 yng duck; C. H. Macomber, Portsmouth, R. I., 4 old duck, 3 yng duck.

PENCILED INDIAN RUNNER DUCKS—Chas. Fraser, Marlton, N. J., 1 old drake, duck, yng duck, 3 yng drake; C. S. Valentine, Ridgewood, N. J., 2-3 old duck, 1-2 yng drake.

WHITE INDIAN RUNNER DUCKS—E. C. Curtis, Atsion, N. J., 1-3 old drake, 1-2 old duck, yng drake, duck; F. K. Crockford, 2-4 old drake, 3 old duck, yng duck, 3-5 yng drake; C. A. Macomber, 4 yng drake, duck.

BUFF DUCKS—Edwin H. Morris, 1 old drake, duck; Winterthur Farms, 1 yng drake, duck.

ANY OTHER VARIETY DUCKS—Samuel Bratt, Jr., Oxford, Md., 1 old drake, 5 old duck, 3 yng drake, 4 yng duck; Wendover Farm, 2 old drake, 1-2-3-4 old duck, 1-2 yng drake, duck, 1 pen; Winterthur Farms, 4 yng drake, 3 yng duck.

GREATER CHICAGO SHOW



GREATER CHICAGO SHOW

Reported by F. D. Rogers

THE third annual show of the Chicago Poultry Breeders' Association held January 13-19, 1916, will go down in history as one of the best and largest shows ever seen in Chicago. In the poultry department there were over 3,000 birds on exhibition and in the neighborhood of 2,000 entries of pet stock. Three very large and spacious rooms were required to coop this great exhibition. All of the rooms presented a most pleasing appearance.

Among those having very attractive booths were Edwards & Loomis Co., Albert Dickinson Co., Prairie State Milling Co., J. J. Badenoch Co., Continental Hatchery Co., Darling & Co. and the Cyphers Incubator Co.

Another feature that was much in evidence was the exhibition of Capons made by George Beuoy, of Cedar Vale, Kan., better known as the Capon King. Many of his World's Fair winners were on exhibition here. Lectures and demonstrations by him were given during the week, which attracted much attention and favorable comment.

A feeling of good fellowship and sportsmanlike spirit seemed to prevail among all the fanciers during the entire week, and already plans are being made for a still larger show next year.

A banquet given by the order of the F. L. E. A. was largely attended, about sixteen new members being initiated during the evening. Several impromptu and appropriate speeches were made by members. Henry D. Riley, of Pennsylvania, president of the order, presided at the business meeting; D. E. Hale, editor of the Big Four Poultry Journal, was toastmaster at the banquet.

In a show of this size it is readily understood that many fine specimens necessarily have to go unplaced. Time and space forbids us to mention many of these birds that naturally would win in most shows. Twelve of our best known and most able judges officiated in the poultry department.

The Barred Plymouth Rocks were the greatest sensation of the show with nearly 500 individual specimens on exhibition, making one, if not the largest class of this variety ever seen at any show in America. It was the meeting of the National Barred Rock Club and the fanciers of this grand breed should be given much credit for the enthusiasm shown and the large number of birds on exhibition. Newton Cosh, of New Jersey, well-known judge and breeder, handled the entire class to the general satisfaction of all concerned.

Honors, of course, were somewhat divided, with Truckenbrod Bros. of Mendota, Ill., winning the majority of prizes and best display. The birds shown by them were fine specimens and were shown in grand form.

These well-known breeders have attained an enviable position among Barred Rock fanciers and this winning sustains the reputation they have attained in the past.

Much credit should be given John McPherson, of Minnesota, for the excep-



D. E. HALE,
Secretary Greater Chicago Show.

tional quality shown in the birds exhibited by him. His 1st, 6th and 7th prize cockerels and 1st cock bird were outstanding and well placed.

D. F. Palmer & Son, Yorkville, Ill., and G. A. Walker, of Polo, Ill., showed birds of exceptional quality. Henry D. Riley of Strafford, Pa., won 1st pullet on a grand specimen showing wonderful type and color.

Fairly large classes of White Plymouth Rocks were seen, with P. J. Olle, Racine, Wis., winning most of the honors and best display. His birds were especially good in both type and color. John Grant, of Richmond, Ill., made one entry and won 1st cock on a bird that would at once command the attention of any White Rock fancier.

Classes in Buff Rocks compared favorably in size with the White Rocks. M. C. Astle, Momence, Ill., won 1st pullet on a bird of exceptionally good color and type.

Partridge Rocks were small classes, but with quality above the average, P. J. Olle, Racine, Wis., winning most of the prizes and best display.

Except in pullets, a small class of Silver Wyandottes were shown. Frank Faha, Jr., Dyersville, Ia., and M. F. Martin, Chicago, divided honors on birds of good quality thruout.

The Silver Penciled Wyandottes shown by Aug. Bloese were down to date specimens and well shown.

White Wyandottes were one of the largest classes consisting of fine quality thruout; Chas. V. Keeler, of Winamac, Ind., and George H. Rudy, of Mattoon, Ill., winning most of the honors. Mr. Keeler received the majority of the prizes and best display.

The state meeting of the Buff Wyandotte Club was held at this show and

many grand specimens were on exhibition; Charles Howison, a well-known breeder of Sandwich, Ill., winning most of the prizes and best display. His 1st prize cock bird and the male in 1st old pen were above the average seen and deserve special mention. F. L. Waterman & Sons, of Barrington, Ill., were also winners in this class.

Dr. G. C. Culver, of Sandwich, Ill., made a creditable winning in Partridge Wyandottes.

In Columbian Wyandottes, Jos. Hauk, Waukegan, Ill., won 1st cock and 1st pullet, with two birds entered. They were outstanding and well placed. Arthur Merrell, Solon Mills, Ill., also Leo A. Lee, Chicago, were among the winners in these classes.

In Single Comb Rhode Island Reds the classes were large and of good quality. M. C. Davis, of Woodstock, Ill., made a very consistent win which included 1st pullet with only one entered. Mr. Davis' birds showed the same characteristics thruout and this win placed him on par with other leading breeders in the mid-west. F. E. Harrison, the well-known breeder of Menominee, Mich., won 1st cock on a grand specimen. He also had the honor of winning champion of the show with this particular bird. Frank Johnson, Chicago, won 1st hen with a bird of good type and strong undercolor. George Demlow succeeded in capturing 1st among a large class of 34 cockerels.

F. E. Harrison won 1st cockerel in Rose Comb Reds, with one bird entered. This particular specimen possessed wonderful color and good type.

Chas. McClave, New London, O., made a grand showing in the Light Brahma class, winning most of the prizes.

S. C. White Leghorns, as a class were exceptionally large and good quality; honors being principally divided between Eugene C. Smith, Aurora, Ill.; N. P. Easling, Pekin, Ill., and Meadow Lark Farm, Elgin, Ill. Mr. Smith's win was most consistent. The birds shown by him were of the refined type so much admired by the down-to-date fancier; his strain winning in the cockerel class, 1st, 2d, 3d, 4th and 5th prizes. He also won in all the other classes and best display. N. P. Easling, Pekin, Ill., made a notable win which included 1st old pen and 1st hen, besides several other places. This particular pen had the honor of winning champion pen of the whole show, all varieties competing; as is conceded by many, the most coveted prize. Meadow Lark Farm, of Elgin, Ill., were well represented among the winners, winning 1st cock and 1st pullet. This particular female being a bird of excellent type and color and an easy winner.

J. S. Bales, of Springfield, Ill., made a good winning in Rose Comb Black Minorcas, making nearly a clean sweep and winning best display.

Single Comb Buff Orpingtons were one of the three largest classes shown



WHITE LEGHORN
FIRST PEN COCK GREATER CHICAGO SHOW-1916.
bred and owned by
N.P.EASLING PEKIN, ILLINOIS.

N. P. Easling's White Leghorns are always mentioned when speaking of first-class birds of this breed. The reason for this is found in their consistent winnings at the largest shows in America. At the Greater Chicago Show, January, 1916, they repeated their former success by capturing again first prize pen in hot competition. We show herewith the male heading this fine pen. The fine type, beautiful shaped back and tail caused many comments.—L. A. Stahmer.

with quality above the average, the prizes being more or less divided; H. Woods, Carlinville, Ill., and Henry Scherruble, Elgin, Ill., showing some especially fine specimens. Mr. Scherruble was among the winners in the hen class, this particular bird winning 1st here last year. F. A. Kaup Orpington Farm, Glen Ellyn, Ill., had some fine specimens on exhibition; his 1st old pen being especially well mated, showing a fine even shade of buff and good type thruout. Z. D. Struble judged this class to the satisfaction of all concerned and had on display, some very fine birds of this particular variety.

Black Orpingtons were a good class; Moore & Bowlens making a good win. Chas. Tucker, of Sycamore, Ill., showed birds of good type and color.

Fair classes of White Orpingtons were seen; Henry Gassman, Olney, Ill., and Wm. and C. W. Tyler, Elgin, Ill., being among the winners. R. Stepes, Champaign, Ill., was also a winner in this variety.

Johnson & Rau, Indianapolis, Ind., won most of the prizes, including best display in Blue Orpingtons.

Dr. M. A. Hanson, Osage, Ia., made a good showing in Buttercups.

The display of pigeons and pet stock was one of the stellar attractions of the show, there being over 2,000 entries in this department alone. Much enthusiasm was shown by the fanciers interested in these classes.

The list of awards in full are are follows:

BARRED ROCKS—J. McPherson, South Stillwater, Minn., 1 Ex. cock, 1-6-7 ckl; Arthur Irvine, Lake City, Minn., 2-6 Ex. cock, 5 ckl, 5 hen; C. Guy Myers, Siddonsburg, Pa., 3 Ex. cock, 3 hen, 4 old and yng Ex. pen; Truckenbrod Bros., Mendota, Ill., 4-7 Ex. cock, 2-6 pit, 2-3-4 ckl, 4 hen, 1 pit-mated pen, 2 ckl-bred hen; Robert J. Walden, Middleburg, Md., 5 Ex. cock, 1-4 pit-bred cock, 1-2-7 hen, 5-7-8 pit, 3 ckl-mated yng pen, 2-5 pit-mated pen, 1 old and yng Ex. pen, 5 ckl-bred hen, 2 ckl-bred pit;

Henry D. Riley, Strafford, Pa., 8 Ex. cock, 1 pit, 4 ckl-mated yng pen, 2 old and yng Ex. pen; E. A. Webb, Benton, Ill., 3 pit-bred cock; G. E. Hoover, Matthews, Ind., 5 pit-bred cock, 1 ckl-bred pit; D. F. Palmer & Son, 2 pit-bred cock, 3 pit-mated pen; T. J. Ireland, 508 Barber Bldg., Joliet, Ill., 3 pit-bred ckl; Alvin C. Brown, Holton, Ind., 2 pit-bred ckl; Wertz & Pentecost, Danville, Ill., 4 pit-bred ckl, 8 hen, 1 ckl-bred hen; Geo. J. Hedrick, Dubuque, Ia., 5 pit-bred ckl; Howard O. Sears, Garden Prairie, Ill., 6 hen; C. P. Stafford, La Moille, Ill., 3 ckl-bred hen, 5 ckl-bred pit; Geo. E. Kinker, Elmore, O., 4 ckl-bred hen; D. M. Hammond, Savanna, Ill., 4 ckl-bred pit; Bolton & Confare, 5246 Warner Ave., Chicago, Ill., 3 pit, 3 ckl-bred pit; Mrs. C. E. Popham, Charleston, Ill., 5 ckl-mated yng pen; G. A. Walker, Polo, Ill., 4 yng pit-mated pen, 7 old and yng Ex. pen; J. R. Moore, Caroleen, N. C., 3 old and yng Ex. pen; H. V. Pay, 1252 18th St., N. W., Canton, O., 5 old and yng Ex. pen; Grant A. Sturman, 6 old and yng Ex. pen; Rosehurst Farm, Woodstock, Ill., 8 old Ex. pen.

WHITE PLYMOUTH ROCKS—John Grant, Richmond, Ill., 1 cock; P. J. Oile, R. 4, Racine, Wis., 2-3 cock, 1-4 hen, 1-3-4 ckl, 4 pit, 1 yng pen, 1 old pen; Maywood W. R. Yds., Maywood, Ill., 4 cock, 5 ckl, 3 pit, 4 yng pen; J. H. Sharer, Princeton, Ill., 5 cock; W. Treat Davidson, Warren, Pa., 2 hen; C. Wilson, 5888 N. Harlem Ave., Chicago, Ill., 3 hen, 5 pit, 3 yng pen, 2 old pen; E. M. John, 5 hen; Chas. H. Conway, 832 S. 5th St., Terre Haute, Ind., 2 ckl, 1 pit; H. & M. Lesser, 4546 N. Drake Ave., Chicago, Ill., 2 pit, 2 yng pen; C. H. Behn, 9848 Winston Ave., Washington Heights, Chicago, Ill., 5 yng pen.

BUFF PLYMOUTH ROCKS—F. W. Kramer, Ft. Atkinson, Wis., 1-5 cock, 3 hen; W. J. Duncan, Winfield, Ia., 2 cock, 1 yng pen; H. H. Rich, 1228 Dixon St., Des Moines, Ia., 3 cock, 1-2 hen; A. Gelandier, Box 74, Oregon, Ill., 4 cock, 4 hen, 3 pit; C. E. Stevens, Danville, Ill., 5 hen; Kellogg & Kellogg, Cambridge, Ill., 1-5 ckl, 2-4 pit; M. C. Astle, Mokenca, Ill., 2 ckl, 1 pit; Jas. I. Sinclair, Franklin, Ill., 3 ckl; F. J. Perrin, 4 ckl, 5 pit.

PARTRIDGE PLYMOUTH ROCKS—P. J. Oile, 1-3 cock, 1-2 hen, 2-3 ckl, 1-4 pit, 1 old pen, 1 yng pen; R. H. Russell, Fayette, O., 2 cock, 3-4 hen, 3 pit; E. A. Crotsier, Fulton, Mich., 1 ckl, 2 pit.

COLUMBIAN PLYMOUTH ROCKS—E. D. Broodt, Hellam, York Co., Pa., 1 cock, 2 hen; J. H. Taylor, Woodstock, Ill., 2-3-4 cock, 3-4 hen, 1-3-4 ckl, 1-2 pit, 1 old pen, 1 yng pen; W. E. Judd, 5004 E. Montrose Ave., Chicago, Ill., 1-5 hen; C. R. Dear-dorff, 2-5 ckl, 3-4 pit; Erwin H. Spencer, 3916 N. Crawford Ave., Chicago, Ill., 2 yng pen.

R. C. PLYMOUTH ROCKS—Wenger & Lester, South English, Ia., 1 cock, 2 pit.

SILVER LACED WYANDOTTES—Robt.

Hoffman, 2132 S. Trumbull Ave., Chicago, Ill., 1 cock, 1 pit; M. F. Martin, 2 cock, 3-4 hen, 4-5 pit, 1 old pen; Chas. M. Weber, 5129 Milwaukee Ave., Jefferson Park, Chicago, Ill., 3 cock, 1 yng pen; H. F. Bergner, South Chicago, Ill., 4 cock, 1 hen, 2 pit; H. L. Mueller, 2203 W. 22d St., Chicago, Ill., 5 cock, 3 pit; Frank Fahs, Jr., Dyersville, Ia., 2 hen, 1-2 ckl.

SILVER PENCILED WYANDOTTES—Aug. Bloese, 5733 Lawrence St., Jefferson Park, Chicago, Ill., 1 cock, 1-2-3 hen, 1-2-3 ckl, 1-2-3 pit, 1 yng pen.

WHITE WYANDOTTES—Chas. V. Keeler, Winamac, Ind., 1-2-4 cock, 1-5 hen, 1-2-3-4 ckl, 1-5 pit, 1-3 yng pen, 2-4 old pen; Geo. H. Rudy, Mattoon, Ill., 3-5 cock, 2-3 hen, 5 ckl, 4-5 pit, 2-5 yng pen, 1-3-5 old pen; Ralph E. Beetles, La Porte, Ind., 4 hen, 2 pit, 4 yng pen.

BUFF WYANDOTTES—Chas. Howison, Sandwich, Ill., 1-3 cock, 3-4 hen, 3 ckl, 2 pit, 1 old pen, 3 yng pen; Joe Bohanan, R. 1, Box 78, Farmington, Ill., 2 cock; Simon Beuth, German Valley, Ill., 4 cock, 5 hen, 1-2-4 ckl, 4 pit 5 yng pen; John C. Boeger, Arlington Heights, Ill., 5 cock, 5 pit, 4 yng pen; J. H. Saylor, Marysville, Mo., 1 hen, 1 pit; F. L. Waterman & Sons, Barrington, Ill., 2 hen, 5 ckl, 1-2 yng pen; B. M. Owens, Shiloh, O., 5 ckl; Wm. E. Woolery, R. 5, Sidney, O., 3 pit; R. E. Pendarvis, 4 old pen.

PARTRIDGE WYANDOTTES—H. W. Derry, Canton, Ill., 1 cock; R. S. Jackson, Muscatine, Ia., 2-3 cock; O. M. McGrew, Troy, O., 4 cock, 3 ckl, 2 old pen; J. W. Kell, Sandwich, Ill., 5 cock, 2 ckl, 5 hen, 4 pit 3 old pen; Dr. G. S. Culver, Sandwich, Ill., 1-3 hen, 1 ckl, 1-5 pit, 1 old pen, 2 yng pen; A. E. Jackson, 2 hen; Cunningham & Cunningham, 3822 Calumet Ave., Chicago, Ill., 4 hen, 5 ckl, 3 yng pen; John E. Dobler, Nora, Ill., 2-3 pit; John Connell, 16007 Lexington Ave., Harvey, Ill., 4 pit; Alex. Campbell, Sandwich, Ill., 1 yng pen.

BLACK WYANDOTTES—Retter's Wyandotte Farm, North La Crosse, Wis., 1 cock, 1-2 hen, 1-2 pit.

COLUMBIAN WYANDOTTES—Jas. Hauk, 144 Palmer Pl., Waukegan, Ill., 1 cock, 1 pit; Lone Oak Farms, R. 5, Streator, Ill., 2 cock, 3 hen; Richard Sawyer, Benton Harbor, Mich., 3 cock, 1 hen, 5 ckl, 2-3 pit, 2 yng pen; Arthur Merrill, Solon Mills, Ill., 4 cock, 2 hen, 4 ckl, 5 pit; J. G. Leatherman & Son, Sylvania, O., 5 cock; Hillsdale Farms, L. Box 34, Hillsdale, Mich., 4-5 hen; Leo. A. Lee, 5630 Wilson Ave., Chicago, Ill., 2-3 ckl, 4 pit; Dr. H. M. Jordan, Hicks-ville, O., 1 ckl; Calvin Ott, 1 yng pen.

S. C. RHODE ISLAND REDS—F. E. Harrison, Menominee, Mich., 1 cock; Thos. W. Southard, 7 W. 13th St., Kansas City, Mo., 2 cock; G. B. Walck, Sterling, Ill., 3 cock; E. E. Baker, R. R. P. Yds., London Mills, Ill., 4 cock, 2 hen, 3 pit, 2 old pen, 3 yng pen; Frank Johnson, 1 hen, 4 ckl; M. C. Davis, Woodstock, Ill., 5 cock, 1 pit; A.



BUFF WYANDOTTE

CHARLES HOWISON, SANDWICH, ILLINOIS

First Cock At Panama Pacific Winning Shape And Color Specials.
First Cock At Greater Chicago Show In Class of 19 Cock Birds
Shape And Color Specials And Champion Male



ROSE COME RHODE ISLAND RED

FIRST PRIZE COCKEREL DETROIT, JAN. 1916

LONGFIELD POULTRY FARM, BLUFFTON, IND.



First, second, third, fourth and fifth White Leghorn cockerels, and first pen cockerel, at the Greater Chicago Show, January, 1916.—all Smith's strain. Made from unretouched photos. Eugene Smith, 317 Galena Boulevard, Aurora, Ill., made a remarkable win at this show, as follows: First, third and fifth cockerel; second and fifth cock; second, third and fourth hen; second and fourth pullet; first young pen; second old pen, and best display; while a customer of Mr. Smith's showed two cockerels and two pullets hatched from one sitting of eggs purchased from Mr. Smith, and won second and fourth cockerel and fifth pullet, which were purchased by Mr. Smith after the awards were placed. This is surely proof of the high quality of Mr. Smith's strain.—L. A. Stahmer.

Haskins, Jesup, Ia., 5 hen; Geo. Demlow, Libertyville, Ill., 3-4 hen, 1 ckl, 4-5 plt, 3-4 old pen, 5 yng pen; A. J. Whitfield, Millbrook, Ill., 2 ckl; F. A. Laird, 3 ckl; Jas. Howieson, Jr., 9748 Genoa Ave., Chicago, Ill., 2 plt; J. W. Greenwood, R. 5, Springfield, Ill., 1 yng pen; C. E. Farris, R. 5, Waverly, Ia., 4 yng pen; H. L. Blum, Park Ridge, Ill., 1 old pen, 2 yng pen.

R. C. RHODE ISLAND REDS—S. E. Fertig, 467 Fuller Ave., St. Paul, Minn., 1 cock, 1 hen, 2 ckl, 1-2 plt; J. H. Carpenter, Glen Ellyn, Ill., 2 cock, 3 plt; R. O. Good, Polo, Ill., 3 cock, 3 hen, 3-4 ckl, 3 yng pen; Cherry R. Poultry Co., Cary Station, Ill., 4-5 cock, 2-4 hen, 1 old pen; C. N. Nichols, Portland, Ind., 5 hen, 5 ckl; F. E. Harrison, 1 ckl; F. J. Britton, 4 plt; Dr. F. W. Koehler, Peru, Ill., 5 plt; Mrs. H. M. Court, 407 Elm Ave., Kankakee, Ill., 1 yng pen; Ruby Red Poultry Yards, Cary Station, Ill., 2 yng pen; R. H. Airey, 453 Greenwood Ave., Blue Island, Ill., 5 yng pen; C. Wilson, 4 yng pen.

R. C. RHODE ISLAND WHITES—H. W. Shepard, Columbia, Wis., 1-2 plt.

BUFF COCHINS—Gust Dietze, 4416 Cullom Ave., Irving Park, Ill., 1 cock, 1 hen.

LIGHT BRAHMAS—H. S. Garman, Adeline, Ill., 1 cock, 3 hen, 1 ckl, 5 plt, 1 yng pen; Chas. McClave, New London, O., 2 cock, 1-2 hen, 5 ckl, 1 plt, 1 old pen; Otto Urban, 2-3-4 ckl, 2-4 plt; Robt. J. McInturf, Sheridan, Ill., 3 plt.

BLACK LANGSHANS—T. Warren Sharp, 217 217 S 5th St., Springfield, Ill., 1 cock, 2-4 ckl, 2 yng pen; Chas. T. Jacobsen, 402 E. Main St., Attica, Ind., 2 cock, 1 ckl, 2 plt, 1 old pen, 1 yng pen; A. P. Flickinger, La Porte, Ind., 3 cock, 2 hen, 5 plt; J. M. Hoog, Bethany, Ill., 4 cock, 1 hen, 3 ckl, 4 plt; G. O. McOmber, Barrien Springs, Mich., 5 ckl, 1-3 plt.

S. C. BROWN LEGHORNS—Rosemont Farm, 1 cock, 5 hen, 1 ckl; C. S. Cook, Jr., 2 cock, 2 hen, 1 plt; F. C. Gutknecht, Hudson, Ia., 3 cock, 2-5 ckl, 5 plt, 2 yng pen, 2 old pen; H. V. Tormohlen, Portland, Ind., 4-5 cock, 1-3-4 hen, 4 ckl, 2-3-4 plt; 1 yng pen, 1 old pen; E. A. Crotser, Fulton, Mich., 3 ckl.

R. C. BROWN LEGHORNS—I. G. Welkos.

Elkhorn, Wis., 1 cock, 1 ckl; Kerlin Farm, R. 2, Pottstown, Pa., 2 cock, 3 hen, 2 plt; Albert C. Rice, 3 cock, 1 hen, 1 plt; Joseph S. Collins, 4736 N. Avers Ave., Chicago, Ill., 2 hen.

S. C. WHITE LEGHORNS—Meadow Lark Farm, Elgin, Ill., 1 cock, 5 hen, 1 plt, 3 old pen, 3 yng pen; Eugene Smith, 316 Galena Blvd., Aurora, Ill., 2-5 cock, 2-3-4 hen, 1-3-5 ckl, 2-4 plt, 2 old pen, 1 yng pen; N. P. Easling, Pekin, Ill., 3-4 cock, 1 hen, 3 plt, 1 old pen, 2 yng pen; C. L. Sneddon, 11413 Church St., Morgan Pk., Chicago, Ill., 4 old pen; H. W. Benson, 145 Elaine St., Batavia, Ill., 2-4 ckl, 5 plt; O. E. Faxon, Plano, Ill., 4 yng pen; Wilfrida Poultry Co., La Porte, Ind., 5 yng pen.

S. C. BUFF LEGHORNS—H. E. Merchant, St. Joseph, Mich., 1 cock, 1 pen; F. A. & R. C. Jamieson, 2 cock, 4-5 hen; Geo. Appleby, Eaton, O., 1 hen; F. J. Perrin, 2 hen, 4 ckl, 3 plt; Fred Erck, 4608 Homer Ave., Chicago, Ill., 3 hen, 1 ckl; C. A. Campbell, 1913 W. 59th St., Chicago, Ill., 3 ckl, 2 plt; H. E. Merchant, 2 ckl; H. Parkman,

JOHN C. POORMAN
BOX 100
WINLEY PARK, ILL., U.S.A.

STRAINS

200 EGG

EGGS
STOCK
CHICKS



POORMAN'S

VIGOR
SIZE
QUALITY

**TRAP-NESTED
 BRED-TO-LAY
 POULTRY**

WHITE ORPINGTONS
BARRED PLYM ROCKS

R.C. RHODE ISLAND REDS
WHITE WANDOTTES

BUFF ORPINGTONS
WHITE PLYM ROCKS

The R C Rhode Island Red hens in this group have records of 256, 248, 248, 238 and 236 eggs


JOHN G. POORMAN

TINLEY PARK, ILL. U.S.A.

STRAINS

200 EGG

EGGS STOCK CHICKS



VIGOR SIZE QUALITY

TRAP-RECEIVED
BRED BY
POULTRY

WHITE ORPINGTONS
BARNED PLYMROCKS
WHITE WYANDOTTES
WHITE ORPINGTONS
BARNED PLYMROCKS
WHITE WYANDOTTES

The S. C. Rhode Island Red hens in this group have records of 243, 240, 236, 234 and 231 eggs.



First hen at National White Wyandotte Club meet, 1916. Owned by M. J. & Marshall, Niagara Falls, Canada.



One of many fine Buff Orpingtons, of C. A. Keefer of Muskegon, Mich., an old time fancier and consistent winner.



F. A. Kaup, of Glen Ellyn, Ill., showed some beautiful Buff Orpingtons at the Greater Chicago Show, January, 1916. The pullet from the first prize pen has all desirable qualities of the breed.—L. A. S.



This beautiful S. C. Rhode Island Red was winner of first cock and champion at both Chicago Coliseum and Greater Chicago shows. Bred and owned by F. E. Harrison, Menominee, Mich.



1st and Champion White Rock Cockerel,
Boston, 1916.

At the Pre-eminent show of America, held at
Boston, 1916, we won 20 ribbons on
our 23 entries of

White Plymouth Rocks

This wonderful record was made in one of
the strongest classes ever shown. This
record win tells its own story.

1-2-3-4 Pullet; 1-4-6 Cockerel;

5-6 Hen 2-4 Pen

Champion male and best display. Our circular
gives matings and prices free on request.

W. F. HAYWARD WESTBORO, MASS.

CAIRNGORM STRAIN

White Orpingtons

Noted for their record in the
the show room, their vigor
and as producers of large
eggs.

WHILE THEY LAST

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BALBOA
First, Best, Champion
Partridge Rock Cockerel

"RAINBOW" PARTRIDGE PLY. ROCKS

Win, Boston, Cleve-
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Panama-Pacific Ex-
position.

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I have a splendid lot of big, open laced birds—
splendid layers. Also can spare a few high class
show birds. Correspondence invited.

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HEN INCUBATOR OAT SPROUTER \$2

LEGBANDS IN COLORS. SAMPLES FREE.

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GREATER CHICAGO SHOW.

(Continued from Page 299)

Aledo, Ill. 5 ckl; Mrs. H. Haskins, 1-4 plt.
R. C. BLACK LANGSHANS—Jos. S. Col-
lins, 1 pen.

S. C. BLACK LEGHORNS—Carl Stack,
6136 Giddings St., Chicago, Ill., 1 hen, 1
ckl; Holland Bros., Box 63, Mystic, Ia.,
1-2 plt.

S. C. BLACK MINORCAS—W. Otto Cor-
rell, 2510 E. 13th St., Indianapolis, Ind.,
1 cock; C. V. Crotser, 2 cock; F. D. Ehr-
man, Forrest, Ill., 3 cock; 1 plt; 1-2 ckl;
Pratt Bros., Glen Ellyn, Ill., 4 cock; Frank
W. Young, 818 W. 35th Pl., Chicago, Ill.,
1-2 hen, 3-5 ckl, 2-3 plt; Geo. J. Tuxford,
10459 S. Racine Ave., Chicago, Ill., 3-4-5
hen, 4 ckl, 5 plt; A. B. Porter, Mt. Pleas-
ant, Ia., 4 plt; Ernest Hudson, 10031 Avenue
N. South Chicago, Ill., 1 old pen.

R. C. BLACK MINORCAS—J. S. Bales,
Springfield, R. F. D., Ill., 1-2 cock, 1-2 hen,
1-2 ckl, 1-2 plt; Mrs. L. M. Freeman & Son,
Independence, Ia., 3 hen; Chas. G. Buck,
Glendora, Mich., 4 hen.

S. C. BLUE ANDALUSIANS—Weis Bros.,
1-3 ckl, 4-5 plt; M. R. Knox, 1617 Lake
Ave., Wilmette, Ill., 2 ckl, 1-2-3 plt.

S. C. ANCONAS—L. G. Bingham & Son,
927 Fairview Ave., Lima, O., 1 cock, 2-4
plt; Ernst Z. Bower, Olney, Ill., 2 cock, 1-3
hen, 1-2 ckl, 3 plt, 1 old pen, 1 yng pen;
C. Merkel & Son, 4526 N. Sawyer Ave., Chi-



First S. C. Rhode Island hen, Chicago, Jan-
uary, 1916. Bred and owned by Frank John-
son, 220 W. 110th St., Chicago.

cago, Ill., 2 hen; Edwards Poultry Yds.,
135th and Albany Ave., Blue Island, Ill.,
4-5 hen; Ancona Poultry Yds., Glencoe, Ill.,
3-4 ckl, 5 plt; Dr. R. C. Bell, Mt. Carmel,
Ill., 5 ckl; S. Barton Lasater, Paris, Tenn.,
1 plt.

R. C. ANCONAS—L. G. Bingham & Son,
1 cock; Ernst Z. Bower, 2 ckl, 1-2 hen.
SILVER DORKINGS—L. G. Bingham &
Son, 1; B. M. Owens, 1 cock, 1 hen.

S. C. BUFF ORPINGTONS—Seneca Poul-
try Farm, 1-3 cock, 3 hen, 4 ckl; Frank C.
Cleveland, 2 cock, 3 yng pen; Will Rector,
Marshall, Ill., 4 cock; G. Z. Weible, Fre-
mont, O., 5 cock, 2 plt, 1 yng pen; Sunny-
haven (S. F. Powell, Mgr.), 1 hen; H. J.
Davidson, 8816 Lowe Ave., Chicago, Ill., 2
hen; N. A. Benoit, St. Charles, Ill., 4 hen,
1 ckl; Mrs. H. M. Covert, 2506 N. 13½ St.,
Terre Haute, Ind., 5 hen, 5 yng pen; Harris
& Jones, Astoria, Ill., 2 ckl; Judd Smith,
Fostoria, O., 3 ckl, 4 plt, 2 yng pen; F. A.
Kaup Orpington Farm, Glen Ellyn, Ill., 5
ckl, 1 old pen; Samuel Dalzell, 7143 Perry
Ave., Chicago, Ill., 1-3 plt; H. Scherrubel,
319 Ball St., Elgin, Ill., 5 plt; A. B. Porter,
2 old pen; Mrs. Joe Hartman, Loraine, Ill.,
4 yng pen.

S. C. BLACK ORPINGTONS—Moore &
Bowlen Quality Farm, Fremont, O., 1-2-3
cock, 2-4-5 hen, 1-2-3-4-5 ckl, 1-2-3-4 plt;
Robt. H. Wallace, 1083 Cherry St., Winnet-
ka, Ill., 5 cock, 1 hen; Wild Rose Farm,
St. Charles, Ill., 4 cock, 3 hen; H. W. Hogg,
5 plt.

S. C. WHITE ORPINGTONS—H. F. Ken-
dall, Virginia, Minn., 1-3-4-5 cock, 1-2-4
hen, 1-3 plt, 1 old pen; Mrs. Louis Mon-
tagne, Box 392 Ottumwa, Ia., 2 cock, 1 ckl;
H. Gassman, 411-413 Whittle Ave., Olney,
Ill., 3 hen; Harris & Jones, 5 hen, 5 plt;
J. W. McConnell, 1154 Van Buren St., Ham-
mond, Ind., 2 ckl; E. M. Long, Osceola,
Ind., 3 ckl; A. E. Sullivan, Deerfield, Ill.,
4 ckl; Wm. C. W. Tyler, Perry Road,
Elgin, Ill., 5 ckl; R. A. Stipes, Champaign,
Ill., 4 plt, 2 old pen, 2 yng pen; A. Engling,
R. 1, Elmhurst, Ill., 2 plt; W. E. Read, 3
old pen; C. J. West, 4027 Grace St., Chicago.

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"AEM" Electric Alarm Ther- mometer	5.00

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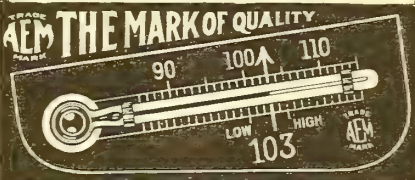
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282

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288

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MATINGS

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For sale at reasonable prices
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Tom Barron and Ed. Cam,
official record, and Cyphers 288
egg standard bred males (the
best America and England can
produce), mated to the highest
grade heavy-laying American
and English S. C. W. Leghorn
females. Write for mating list.

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For sale at reasonable prices
from 15 Cyphers hens with
records of 216 to 235 (average
224) sired by a son of Cyphers
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A NEW DISCOVERY

Handyside's Diarrhoea and Cholera Cure.
A sure cure in all kinds of poultry. Easy to
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circular free. J. R. HANDYSIDE, Litchfield, Ohio

Consequently the Best

At the World's Fair, San Francisco, Nov., 1915 where the country's best birds were gathered for competition, we entered eleven birds and nine were in the ribbons. This wonderful winning was made with our Red Chief Strain of

Single Comb Rhode Island Reds

You, friend reader, are the judge, wasn't it a wonderful win? Just consider, the leading Red breeders of the country were there; consider that our birds traveled clear across the entire country, yet made the remarkable win of

1st Cock 1st and 2nd Pullet
7th Hen 3rd Pen

Gold Medal for Champion Pullet, all classes competing. There were twenty-nine entries in the Cock class and Red Chief winner of First Cock was pronounced by all judges to be one of the grandest specimens ever shown. At the World's Leading Shows,

**Madison Square Garden, 1916
and Boston, Mass., 1916**

In the very strongest competition ever exhibited at these two leading shows exhibiting our

White Plym. Rocks

**We won at the
GARDEN**

**2nd Cock
2nd Pullet
5th Cockerel
3rd Pen**

**We won at
BOSTON**

**2d, 4th Cock
5th Cockerel
3rd Pen**

WHITE WYANDOTTES. We did not exhibit this variety at the Garden show. At Boston we captured 2nd Cockerel and 5th Pen.

You, no doubt, have heard about the "hot" Red class at these two shows. Our win at BOSTON was, 4th Cockerel and 6th Hen; at the GARDEN, 5th Pen. Now, friend, bear in mind that these winnings were made at the largest and best shows of the country, where competition was very keen and where a win means something.

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First prize S. C. R. I. Red pullet, Greater Chicago Show, January, 1916. A real sensation. Win made with one pullet entered. Owned and bred by M. C. Davis, Haywood Road, Woodstock, Ill.—F. D. R.

Ill., 4 old pen; J. J. Schabell, 3331 Cuyler Ave., Chicago, Ill., 1 yng pen; R. Burndahl, 4441 N. Avers Ave., Chicago, Ill., 3 yng pen.

S. C. BLUE ORPINGTONS—Johnson & Rau, 801 N. Keystone Ave., Indianapolis, Ind., 1-2 cock, 1-3 hen, 1-3 ckl, 1-2 plt, 1 pen; Frank Meyer, 2133 Lamon Ave., Chicago, Ill., 3 cock, 4 hen, 3 plt; Louis H. Chamberlain, 1104 N. Central Ave., Chicago, Ill., 4 cock, 5 hen, 5 ckl; C. A. Pierce, 2 hen; Dr. W. E. Creath, Ottumwa, Ia., 2 ckl; F. J. Perrin, 4 ckl; S. Linderoth, 5844 S. Elizabeth St., Chicago, Ill., 4 plt; Ideal Poultry Farm, Logansport, Ind., 5 plt.

WHITE CRESTED BLACK POLISH—Frank Kakuska, 3537 Home Ave., Berwyn, Ill., 1 cock, 1 hen, 3 ckl, 3 plt; Edw. Amerpohl, Janesville, Wis., 2 cock, 2-3 hen, 1-2-4 ckl, 1-2-4-5 plt.

NON-BEARDED GOLDEN POLISH—L. H. Gartz, 711 W. Christiana Ave., Chicago, Ill., 1 cock, 2-3 hen; Geo. Stewart, North, Ill., 1 hen; Carl Staack, 1 pen.

NON-BEARDED SILVER POLISH—L. H. Gartz, 1 ckl, 1-2 plt.

BEARDED GOLDEN POLISH—Geo. Stewart, 1 hen.

BEARDED SILVER POLISH—Frank Kakuska, 1 cock, 1 hen.

BEARDED BUFF POLISH—Frank Kakuska, 1 hen.

PLAIN BUFF—Frank Kakuska, 1 ckl, 1 plt.

SILVER SPANGLED HAMBURG—Carl Staack, 1 cock, 1 hen, 1 plt; J. Al. Bostedo,



Second Columbian Wyandotte hen, Chicago, January, 1916. A high scoring bird, unusually good in color. Bred and owned by Arthur Merrell, Solon Mills, Ill.—E. W.

Another Triumph

1st Cock—1st Pullet

At the Greater Chicago Show, January 12-19, Meadow Lark Farm Leghorns kept up their habit of winning firsts in hot competition. Meadow Lark Farm is a commercial egg plant; but we have succeeded, where others have tried, in combining showroom with laying qualities. Our hens MUST LAY. They are perfect enough to beat birds bred for show purpose only.

Meadow Lark Farm S. C. White Leghorns

are the birds you will find most profitable. They'll lay for you when egg prices are high; they'll breed stock able to win in the hottest competition. There are years of scientific breeding back of this strain and the prices are reasonable.

EGGS FOR HATCHING

Get some of our eggs either from our Special Matings or Flock Matings. You'll be more than pleased with the birds hatched. Fertility guaranteed.

LAYING FEMALES

We are prepared to supply a limited number of pullets, genuine Meadow Lark Strain, now laying or ready to lay. These will prove to be a wonderful investment.

BREEDING MALES

Here's a chance to get Cocks or Cockerels that will breed into your flock the quality your birds need. They'll produce layers and winners. Write us your needs.

Send Your Name Today. Ask for Mailing List No. 3

MEADOW LARK FARM

ELGIN, ILL.



Won at
Greater Chicago
Chicago Coliseum
and
Illinois State
Fair Shows

2 hen, 1-2 ckl, 2 plt, 2 pen; Geo. Wilton, 3226 Phillip Ave., Chicago, Ill., 1 pen.

HOUDANS—M. F. Martin, 1 cock, 1-4 hen; Carl Staack, 2-5 hen; Bion H. Naldrett, 1 ckl.

SILVER CAMPINES—Mrs. J. A. Dayhoff, Mechanicsville, Ia., R. 1, 1 cock, 1 hen, 1 plt; E. Adams, 6549 Honore St., Chicago, Ill., 2 hen, 2 ckl; John J. Cheffer, 558 W. Merchant St., Kankakee, Ill., 3 hen, 4 ckl; E. H. Cook, Huntley, Ill., 1-3 ckl, 2-3 plt; E. G. Hawkins, 1 yng pen.

GOLDEN CAMPINES—E. G. Hawkins, 1 ckl; Mrs. Hawkins, 1 pen.

WHITE CAMPINES—Nabob Hatcheries & Poultry Co., Gambier, O., 1 ckl.

BUTTERCUPS—H. W. Court, 1 hen.

RED SUSSEX—Fields Bros., Sandwich, Ill., 1 cock, 1 hen; E. J. Weipert, Ida, Mich., 2 cock, 2 hen, 2-3 ckl, 1-2 plt, 1 yng pen; Fred Landgraf, Marissa, Ill., 3 cock, 1 ckl, 4-5 plt; L. C. Brackett, Hopkins, Mich., 4 ckl, 3 plt.

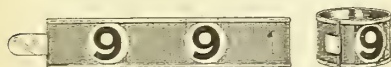
LIGHT SUSSEX—E. J. Schroeder, Streator, Ill., 1-2 hen.

SPECKLED SUSSEX—Wm. Zitek, Cary Sta., Ill., 2 hen, 2 ckl, 5 plt; T. J. Roundtree, Nora, Ill., 1 ckl, 1 plt; Jno. Blanchard, Columbus, Wis., 3 ckl, 2-3 plt; Fields Bros., 4 ckl, 4 plt; Lloyd C. Brock, 5 ckl; 1 yng pen.

DARK CORNISH—W. B. Gringer, Eleroy, Ill., 1 cock, 1 hen, 3 ckl, 4 plt; G. J. Hedrick, 2 cock, Geo. Garbush, Waltham, Minn., 1 ckl; R. W. Root, Galva, Ill., 2 ckl, 1-2-3-5 plt.

BRONZE TURKEYS—Pullins Bros., Renesselaer, Ind., 1 cock, 1 hen, 1 ckl, 1 plt; Royal Poultry Farm, R. 2, Ossian, Ind., 2 cock, 2 hen 2-3 ckl, 2-3 plt; Mrs. Eli Fowler, Rochelle, Ill., 3-4 cock, 4 ckl.

WHITE HOLLAND TURKEYS—T. C. Cain, 1 cock, 1 hen.



COLOR LEG BANDS

Big Black Figures on White Background. All colors, all sizes, for all fowls, and pigeons. Birds identified without handling. Saves time and labor. Baby chick bands 18 colors, not numbered. The best band in the world to-day. Samples and catalog FREE. Mention A. P. J.

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of fine, pure-bred poultry for 1916. This book contains many pages of poultry facts, 70 different varieties, some shown in natural colors. Illustrated and described, tells how to make hen, raise and care for them. Famous Greider Incubators and Brooders. Shows photo of the largest poultry farm in Penn. Prices of brooding stock and eggs for hatching, and supplies within reach of all. A perfect guide to all poultry raisers. Send 10c for this noted book on poultry.

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S. C. B. MINORCAS

are winners at all leading shows. This year I have them better than ever and can furnish you winners in cocks, hens, cockerels, and pullets.

Arthur Trethaway, 45 Parrish St., Wilkes Barre, Pa.

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is the best, most simple, accurate and impossible to get out of order. You should use the trapnest, the cost is small, the profit large. The Automatic will weed out the poor layers out of your flock, reduce your feed bill, increase your profits and enable you to breed to Standard. Send for particulars.

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57 Varieties Chickens, Ducks, Geese and

pure-bred, hardy, northern raised. Fowls, eggs and incubators; low prices. Most successful farm; 19th

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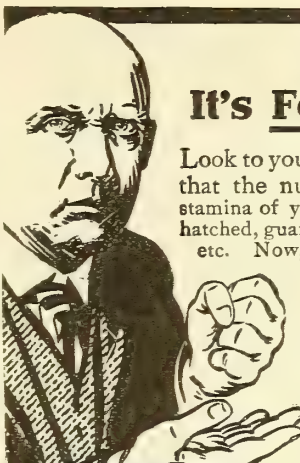
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WH. WYANDOTTE WINNERS

Clean sweep, Madison, Wis., 1916. \$50 cup, best display over all varieties. Special best pen in show.

Eggs for hatching. Closing out Black Orpingtons—40 birds at bargain prices. Write at once.

Tom Evans Dousman, Wis.



Chick Time is Here! It's Fertile Eggs You Need Now

Gilbert Hess, M. D., D. V. S.

Look to your breeders now—get them in condition. Remember that the number of fertile eggs depends upon the health and stamina of your flock. Feed Pan-a-ce-a and when the little chicks are hatched, guard them against leg weakness, diarrhoea, gapes, indigestion, etc. Now, listen : So sure am I that

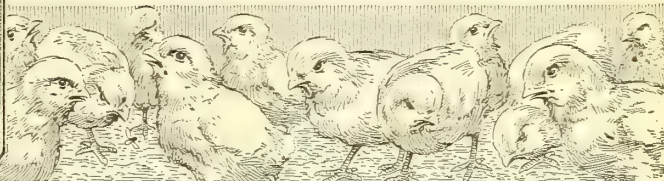
Dr. Hess Poultry PAN-A-CE-A

A Tonic—Not a Stimulant

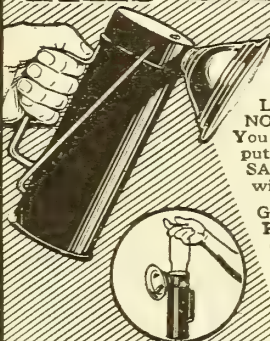
will help to make your poultry healthy, put them in a hardy, vigorous condition, help your hens lay and your chicks grow, that I have told my dealer in your town to supply you with enough for your flock, and if it doesn't do as I claim, return the empty package and get your money back. A penny's worth of Pan-a-ce-a is enough for 30 fowl daily. 1½ lbs. 25c; 5 lbs. 60c; 12 lbs. \$1.25; 25-lb. pail \$2.50 (except in Canada and the far West). If not at your dealer's, write

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Ashland, Ohio



This Guaranteed Electric Farm Lantern Only \$1.50



THIS LANTERN CAN—NOT SET FIRE TO ANYTHING. You can upset it—have a horse kick it over—put it right in a pile of hay—IT IS ABSOLUTELY SAFE. No exposed wires or switch. No danger from crossed wires. Can't be accidentally turned on or off.

GIVES A BRILLIANT WHITE LIGHT—STEADY AND POWERFUL. Shines for hours and uses any standard dry battery. Has two handles as shown, and can be hung up anywhere. The all-metal case is a rich black—the reflector is bright nickel.

Sold by the makers of the Bell telephones—FULLY GUARANTEED. If your dealer cannot supply you, we will send you this electric lantern, postpaid, complete with battery for ONLY \$1.50. Use the coupon, and send it to our house nearest you.

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Please send me one of your guaranteed electric lanterns. I enclose the price, \$1.50.

Don't take Chances
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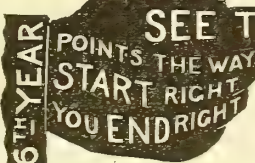
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any person in the world to hatch one egg the Magic Egg Tester registers unhatchable before incubation. 2d. We challenge anyone to produce evidence of one 200 egg layer that was not hatched from an egg rated good by the Magic Egg Tester. It is a sure loss to take a chance on weak eggs. Unimpeachable testimonials. You save and make money when the Magic Egg Tester picks out the eggs for hatching. Don't use weak eggs. It kills the profits, and nearly kills you. This device also helps to regulate moisture. Price \$2.00 and no expense to use.

One year's trial given. Money back if not satisfied. Orders filled by Insured Parcel Post. Sold by Poultry Supply dealers throughout the country, or by the Magic Egg Tester Works. Dept. B Buffalo, N. Y., also Bridgeburg, Canada

Skinner's White Wyandottes

Win at the World's Fair at San Francisco—Only two pullets entered, both were placed, in one of the largest classes shown to date, and in competition with the best breeders both east and west. My Wyandottes have won at Chicago, St. Louis, Indianapolis, Illinois State Fair, etc. for years. A grand lot of birds for sale. Send for my catalog. F. E. SKINNER, BOX 306A, SANDWICH, ILLINOIS



White Orpington cock, winning color special, Chicago, January, 1916. A brother to the first prize cock at Chicago Coliseum, December, 1915. Owned by W. E. Read, Maywood, Ill.—E. W.



First prize R. C. Black Minorca cockerel, Greater Chicago Show, January, 1916. One of the best specimens of this variety shown to date. Bred and owned by J. S. Bales, Springfield, Ill.—F. D. R.



The Chicago, January, 1916, Show was the fifth show this season at which this Wyandotte cockerel was shown. Considering this fact, the condition of the bird was remarkable. It has won several prizes. Bred and owned by M. F. Martin, 3859 Park Ave., Chicago.—E. W.

R. C. SILVER CORNEAN BANTAMS—G. Froberg, 1 cock, 1 hen.
ROUEN DUCKS—E. M. Owens, 1 hen, 1 ckl; Chas. McClave, 2 ckl.
AYLESEBURG DUCKS—Chas. McClave, 1 ckl, 1 plt.
WHITE PEKIN DUCKS—Diamond Poultry Farm, Blue Island, Ill., 1 cock, 1 hen; A. W. Hobein, Barrington, Ill., 1 ckl, 1-2 plt.
BUFF ORPINGTON DUCKS—Emil Mack-

lenberg, Oak Lawn, Ill., 1 cock, 1 hen; E. H. Cook, 2 cock, 1 ckl, 1-2 plt.
COLORED MUSCOVY DUCKS—Chas. McClave, 1 cock, 1 hen.
WHITE MUSCOVY DUCKS—Chas. McClave, 1 cock, 1 hen.
BLUE MUSCOVY DUCK—A. Piper, Oak Lawn, Ill., 1.
GREY CALL DUCKS—Chas. McClave, 1 cock, 1 hen.
CAYUGUS DUCKS—Chas. McClave, 1 ckl, 1 plt.
MUSCOVY DUCKS—Stanley Kotecke, 3707 Belmont Ave., Chicago, Ill., 1 cock, 1 hen.

CANADIAN GEESE—Sydney Lumley, 1 cock, 1-2 hen.
EMDEN GEESE—Chas. McClave, 1 cock, 1 hen.
WHITE CHINESE GEESE—Chas. McClave, 1 cock, 1 hen.
BROWN CHINESE GEESE—Chas. McClave, 1 cock, 1 hen.
TOULOUSE GEESE—Chas. McClave, 1 cock, 1 hen.

Rudy's Perfection

White Wyandottes

THE KIND THAT PLEASE

Come to me for pure white, broad backed Wyandottes with well spread tails and perfect head points, so much desired in this beautiful variety. I will treat you right. I can supply you with prize winners or utility birds at prices to meet your pocket-book. Don't think that my prices are beyond your means just because I have the reputation of being one of the most successful breeders of Wyandottes. My prices are reasonable, both for stock and eggs—just send for catalog—and be convinced.

I make a specialty of furnishing breeding pens for utility purposes—mated correctly—the kind that will lay the foundation for a flock of beauty—I term such matings

MY \$35.00 BREEDING PENS

I will furnish other matings and single birds at equally moderate prices. All orders receive my personal attention and all birds are carefully looked over by me before being shipped. My birds are all Farm Raised—they have free range and are milk fed, producing bone, size and vigor. 7 first prizes, 6 seconds, 7 thirds and 4 minor prizes besides special cup for best display and champion Hen, 1915. Those are my combined winnings at the last two Chicago Breeder's Ass'n shows in Jan. 1915 and in Jan. 1916. These winnings exceed the combined winnings of all competitors and should prove to the most skeptical that Rudy knows how to mate his pens. Write for my illustrated catalog—my silent salesman.



Egg orders booked now for early spring delivery. 100% fertility guaranteed.

\$5.00 for 15; \$9.00 for 30; \$15.00 for 50; \$25.00 for 100.

GEO. H. RUDY - Route 15 - MATTOON, ILL.



"MOUNT AIR" WHITE ORPINGTONS

WIN FIVE FIRSTS AT HAGERSTOWN, 1915

Our birds have the type and size that is necessary to win at the big shows. We have a few Cockerels for sale that will improve your flock wonderfully. It will pay you to get our prices. Satisfaction guaranteed.

Pens now mated for the egg trade; all headed by and containing winners. Eggs for hatching, \$8 per setting; 2 settings, \$15.

MOUNT AIR FARM

C. R. WOLF, Proprietor
W. C. YOUNG, Supt.

Dept. A, POWELL, OHIO

STEWARD'S HOUDANS

Sweep the Boards at the Coliseum. Send at once for FREE MATING LIST.
A FEW EXTRA FINE MALES FOR SALE. BOOK EGG ORDERS NOW.

CHAS. A. STEWARD

DRAWER B-3

PLANO, ILLINOIS

THE POULTRY EXHIBITION OF
PITTSBURGH, PA.

Held January 17-22, 1916.

By P. K. WHITE.

SHOWS may come and shows may go, but the Pittsburgh Show will go on forever. Why? The spirit is there, those "boys" that promote it, if given five minutes of your undivided attention are bound to prove to you that your entire success lies in exhibiting at Pittsburgh.

Considering the fact that this, their Fifth Annual Exhibition, was held at Motor Square Garden, which is about six miles from the down-town district, the attendance was very good.



First prize and champion S. C. Black Orpington hen, Illinois State Show, De Kalb, January, 1916. Grand type and color. Bred and owned by Chas. Tucker, Maple St., Sycamore, Ill.—F. D. R.

There is not an exhibitor that attended Pittsburgh that did not leave there vowing his sales were as good as at any show he had attended and further adding that next year he would bring a friend exhibitor, for he had been treated so royally by all.

There was a banquet almost every night and the attendance at these affairs proves that the exhibitors like this get-together spirit; other shows would do well to bear this in mind. The banquet given by the show was held in the Hotel Dorset (and, by the way, the manager, Eddie Arnold, sure is some hotel man, he made everyone feel at ease and just as if they were right at home). This banquet brought

Orchard Farm
REDS

Follow up last year's "clean-up" of Madison Square Garden by a wonderful winning at Brooklyn this year.

No more showing for us this year. Pens are now mated for the early egg trade.

Write for Mating List.

ORCHARD FARM

Noroton Heights - Connecticut

BLUM'S PURE BRED Day-Old CHICKS

We have four varieties all hatched in Candee Mammoth machines. We have 10,000 eggs per hatch. Our equipment is so automatically arranged that we can sell you the chicks at the following low prices. Single Comb White Leghorns and Barred Plymouth Rocks our Specialty.



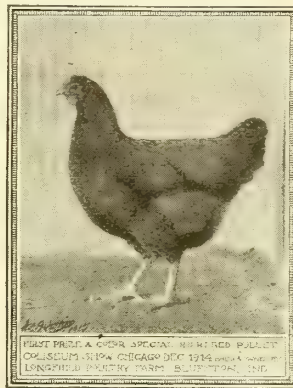
	Per 25	Per 50	Per 100
Barred Ply. Rocks...	\$3.00	\$5.50	\$11.00
S. C. W. Leghorns...	2.75	5.00	10.00
S. C. Brown Leghorns	2.50	5.00	10.00
Broiler Chicks.....	2.00	4.00	8.00

Chicks all hatched from the very best free range utility stock. Satisfaction guaranteed. Will also have a few Barred Rocks and S. C. White Leghorn chicks to offer from fine exhibition matings. Also have eggs for hatching and a full line of colony brooders. Will be ready to ship chicks after March 6th. Get your orders booked now. Catalog and price list free. Mention A. P. J.

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NEW WASHINGTON, O.

LONGFIELD R. C. REDS



Are again victorious at the greatest of all Red shows, winning

3 FIRST PREMIUMS

At the December, 1915

Chicago Coliseum Show

Being the only R. C. Red breeder to win more than one first premium. Our complete awards were: 1st cock, 1st old pen, 1st and 5th young pen, 2nd and 4th hens, 2nd pullet, silver cup for best display, silver cup for best four cocks, silver cup for best four hens, silver cup for best four pullets, and shape and color specials on male.

At this great show we have won best display three successive years—a record—and in the past five seasons have won more than four times as many first premiums as any competitor.

We have a fine lot of stock for sale in both breeding and exhibition birds—on approval always. Illustrated mating list ready February 1st.

LONGFIELD POULTRY FARM

Box 321

Bluffton, Indiana

SINGLE COMB WHITE LEGHORNS



QUEEN
263 EGGS
ONE YEAR

Queen is the girl that put the Lay in Leghorn! Place one of our

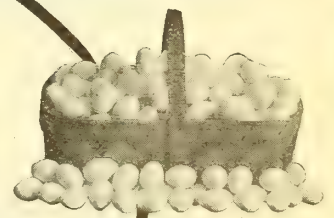
AFFIDAVIT

200-Egg Cockerels

in your breeding pen and join the Full Basket Brigade. Stock, Eggs and Chicks. Ask for catalog J.

Applegrove Poultry Farm

QUEEN 76 STRAIN

W. B. Tyrrell
Delavan, Wis.

263 EGGS
QUEEN STRAIN

DAWDY'S DARK CORNISH

Won First Prize Pullet, Chicago, December 1915; St. Louis, November 1915. 1st Cock and 2nd Hen, 1st and 3d Pullet, 4th Cockerel. Young and old stock for sale. Real Cornish type. Satisfaction guaranteed. Write today. DAWDY & DAWDY, Box M, Greenville, Ill.

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**S. C. White and Brown Leghorns, White and Black Orpingtons
Barred Rocks, S. C. and R. C. Reds, White Wyandottes**

The Quincy Poultry Farms is an association of the following seven leading fanciers:
W. E. Plowman, S. C. White Leghorns and barred Rocks; E. G. Horner, pedigree R. C. Reds; H. G.
Disselhorst, S. C. Reds; Wm. F. Danforth, Brown Leghorns; H. D. Brown, White Orpingtons;
Mrs. W. F. Fry, Black Orpingtons; F. H. Smith, White Wyandottes.

We give our customers the benefit of our information and low prices. Our catalog describes fully our plan—tells all about our winnings. Write for it.
We have shown and sold winners at such shows as Palace, N. Y., Chicago Coliseum, Springfield,
Indianapolis, Atlanta, New Orleans, and Memphis, Iowa, Illinois, Alabama State Fair.

We Can Help You Win. Every Sale on Approval.

Eggs \$5, \$3, \$2. Fertility Guaranteed. Write us today for Catalog

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Whenever you see the
"Bars" think of Riley's
Barred Rocks of course

Riley's Barred Rocks

America's most consistent winning strain. Are you looking for eggs this coming season that will breed you winners? I have mated up the best pens I have ever owned, and will sell you eggs that cannot fail to breed you winners. My customers are my first consideration and their winnings the past season prove that the quality of your breeders is not what you can produce for yourself, but what you can produce for your customers. My mating list is now ready. Write for one.

Henry D. Riley, Box B Strafford, Chester Co., Pa.

Durfee's White Leghorns

Win at the great Milwaukee show, the most coveted prize—FIRST YOUNG PEN, 2d old pen, 2d hen and other prizes. 17 birds entered, 13 in the ribbons. Won last year—35 firsts out of a possible 55 in Wisconsin's best shows. Stock, Eggs and Baby Chicks for sale. Write for free Mating list.

DURFEE'S LEGHORN FARM - R-2 - MADISON, WIS.

Cooke's BLACK LANGSHANS

Wonderful Win at the great Milwaukee show—1st and 3d cockerel, 2d and 3d cock, 1st, 3d and 4th hen, 1st and 2d pullet; 9 birds entered, every one placed. Also clean sweep this year at the State show, Janesville. My White Leghorns made wonderful win this year at Racine. Great Sale of Black Langshan Cockerels now on. Prices reasonable, every bird guaranteed. Eggs for hatching, stock for sale. Write

GEO. COOKE : Route No. 1 : RACINE, WIS.

BARRED ROCKS

Greatest Victory ever won at greatest Chicago Show. In competition with 488 Barred Rocks and best eastern breeders we won most of the best prizes, and nearly all special prizes given by the American Barred Rock Club. 3 Silver cups, best display, 1st pen, mated to produce exhibition pullets; 1st and 2d pens, to produce exhibition cockerels. For sale, top-notch breeding cockerels and pullets, trios and pens, properly mated to produce winners. Eggs \$5, \$7 and \$10 per 15 from nine grand yards. Circular free.

STANDARD ROCK FARM Truckenbrod Bros. MENDOTA, ILLINOIS

W. E. Read's S. C. White Orpingtons

Won at two Shows in January, 1916—3 Silver cups, 1 Medal, 7 Spectals, 4 Firsts, 2 Seconds, 1 Third, 2 Fourths and 2 Fiftths. Eggs and Stock for sale. Write for Mating list.

W. E. READ - Phone 1018M - 919 North 7th Ave., MAYWOOD, ILL.

DARK CORNISH—"Shamrock Strain"

Winners—Cleveland, Forest City Fair, and at Springfield Cornish Club Show. Winner First Pen and Champion Pen of show.

C. L. Woodward - Box 786 - Norwalk, Ohio

AMERICAN DOMINIQUE

America's Oldest Fowl won at Old Glory Show, Boston, 1916. 2d and 4th cock, 1st and 2d hen, 1-2-3 cockerel, 1-2-4 pullet. Write for prices on stock and eggs.

C. W. BESSE - JEFFERSON, MAINE

Tyler's White Rocks Always Win

Have established wonderful records at Illinois State Show and many others thruout the country. Nearly a clean sweep this year at the State Show, De Kalb, winning nearly every prize and best display. Eggs and stock for sale. S.A. Tyler, Lincoln Highway, DeKalb, Ill

forth the real talent in speech making and the good things that were told would fill a book. The address of welcome (and he sure meant it) was given by F. A. Goedecke, the President, following which, he introduced Chas. J. Fisk of Wilburtha Farms as Toastmaster. Mr. Fisk's fame as toastmaster is too well known for comment to be necessary, suffice to say, he was in his regular form.

Here are a few of the remarks: Judge Wid Card—Tell you what, fellows, when a man enters this game his conscience is as large as an ostrich egg, but after he has exhibited four



First prize Silver Penciled Wyandotte cock, Greater Chicago Show, January, 1916. Doubtless one of the best birds of this variety ever shown. Bred and owned by Aug. Bloese, 5738 Lawrence Ave., Chicago, Ill.—F. D. R.

times—well, then the hen's egg is about the size. W. B. Craig—After 15 years at it, I feel I am a fancier; 14 years ago I was sure of it. "Santa Claus" Rankin, his kind and thoughtful toast of good old Hugh A. Rose will never be forgotten. Tell you what, friends, I saw many a tear-dimmed eye when he finished speaking. That ever popular Fred Kummer, as in other things, his talk was brief but good. Next came "Scotty"



30,000 Chicks for 1916

from four varieties at the following low prices:

	Per 25	Per 50	Per 100
Barred Ply. Rocks...	\$3.00	\$5.50	\$11.00
S. C. W. Leghorns...	2.75	5.00	10.00
S. C. Brown Leghorns...	2.50	5.00	10.00
Broiler Chicks.....	2.00	4.00	8.00

Chicks all hatched in Candee mammoth machines. Write for free catalog and price list, and mention American Poultry Journal.

MISS BARBARA BLUM, Dept. C. New Washington, Ohio

Bowers; it wasn't the amount of words he spoke, it was the way they were spoken; everyone likes Scotty and you can't blame them. Next came "Hank" Schwab. "Pop" Fisk told him he could have five minutes if he was good—he had five minutes. Last but not least, was Czar Baldwin, the Secretary of the show: keep his name in mind, you are going to hear big things of him, for once you meet him, you know he is on the square.

As I stated before, these "Pittsburgh boys" have a wonderful organization, and in passing, it is fitting that especial mention be made of the following, for they are the boys who were on the job 24 hours each day: John Spencer, the Red breeder, was superintendent, and he delivered as only John can; Geo. Hilderbrand, Chief of clerical force; "Chuck" Miller, bureau of information (he is also a magician). Last but not least, came Mrs. Baldwin, who so ably assisted her husband in looking after the exhibitors' interests. Lest I forget, wonder if Chas. Hubbard arrived home safely with his gift from the "Fleas."

The list of awards follows:

BARRED PLYMOUTH ROCKS—L. B. Ressegui, Millers, N. Y., 1-2 cock, 1 hen, 1 chl, 1-2 plt, 1 yng pen, 1 old pen; Howard Spahr, 143 N. 3d St., Duquesne, Pa., 3 cock, 5 hen; S. C. Hillard & Son, New Bethlehem, Pa., 4 cock, *4 chl; W. K. Hoffman, Mor-

gantown, W. Va., 5 cock, *2-*3-*4 chl; Harry B. Arbie, R. D. No. 5, Butler, Pa., 2 hen,



White Rocks make elegant Capons. Geo. Beuoy, the Capon King, of Cedar Vale, Kansas, had some fine specimens on exhibition at the Greater Chicago Show, January, 1916. The bird in the above picture weighing 14 lbs.

4 plt; Chris. Porteous, 1326 Laketon Ave., Wilkinsburg, Pa., 3-4 hen; Harvey L. Fike, Meyersdale, Pa., *2-*3 chl; W. W. Hines, 703 Walnut Ave., Scottsdale, Pa., 3 plt; Jno. J. Campbell, 234 Oak St., Butler, Pa., 5 plt; H. M. White, 6578 Annetta St., E. Pittsburgh, Pa., 2 yng pen; Jas. C. Nicholls, Pennsylvania Ave., Chester, W. Va., 3 yng pen.

BARRED PLYMOUTH ROCKS, PULLETT BRED—Frank Pletz, 1121 W. 22d St., Erie, Pa., 1 cock.

BARRED PLYMOUTH ROCKS, PULLETT MATED—W. W. Hines, 1 chl.

BARRED PLYMOUTH ROCKS, CKL BRED—Frank Pletz, 1 hen.

BARRED PLYMOUTH ROCKS, CKL MATED—W. W. Hines, 1 plt.

GOLDEN BARRED PLYMOUTH ROCKS—J. H. Lewis, Cadiz, O., 1 cock, 1 yng pen.

WHITE PLYMOUTH ROCKS—Bickmore Poultry Farm, Wallingford, Pa., 1-3 cock, 2-3 hen, 1-4-5 chl, 1-2-4 plt, 2 old pen; James Murray, 922 Idlewood Ave., E. Carnegie, Pa., 2 cock; Harry R. Brenner, Bentleyville, Pa., 4 cock, 5 hen, 2 chl, 3-5 plt, 1 yng pen; Wm. A. Smith, Jr., R. F. D. No. 1, Carapopolis, Pa., 5 cock, 4 hen, 1 old pen; Hazen & Black, 964 Malinda St., Zanesville, O., 1 hen; C. C. Harter, 832 E. High St., Waynesburg, Pa., 3 chl; Chas. W. Voskamp, 401 Atlantic Ave., Pittsburgh, Pa., 2 yng pen.

BUFF PLYMOUTH ROCKS—Tom Douglas, Library, Pa., 1 hen, 1 chl.

PARTRIDGE PLYMOUTH ROCKS—East End Poultry Yds., 816 Lincoln Way, McKeesport, Pa., 1-4 cock, 3-4 plt; D. C. Myers, Ligonier, Pa., 2 cock, 3 hen, 2-5 chl, 1-2 plt; Howard Spahr, 143 N. 3rd St., Duquesne, Pa., 3 cock, 1-2 hen; J. H. Lewis & Son, R. F. D. 2, Cadiz, O., 1-3-4 chl; E. J. Harshberger, 1420 21st Ave., Altoona, Pa., 5 cock.

COLUMBIAN PLYMOUTH ROCKS—Chas. J. Schmidt, 125 Beltzhoover Ave., Pittsburgh, Pa., 2 cock, 2-3 hen, 1-2 plt.

WHITE WYANDOTTES—Geo. M. Wilkin-

*Indicates repetition in marked catalog.

WINNINGS, BOSTON SHOW, 1916

5 FIRSTS
1 FIFTH

4 SECONDS
1 SIXTH

4 THIRDS

1 FOURTH
16 SPECIALS

Best Display of Barred Rocks, won 79 points

Nearest Competitor, 35 points

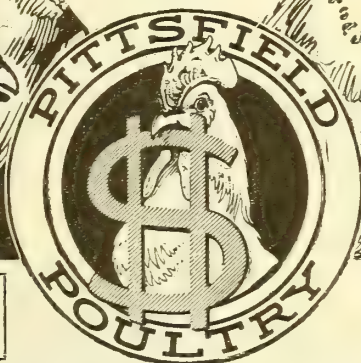
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DAY-OLD CHICKS

Order NOW—No Money Down
LOOK AT THESE LOW PRICES

Barred Rocks, White Rocks and S. C. R. I. Reds at \$18 for 100, \$10 for 50 and \$5 for 25. S. C. White Leghorns at \$15 for 100, \$8.50 for 50 and \$4.25 for 25. White Wyandottes at \$22 for 100, \$12 for 50 and \$6 for 25.

Guaranteed To Arrive In
Perfect Condition.



Send for **DESCRIPTIVE FOLDER**. It contains valuable information for poultry raisers, besides giving full details about our profit making Day-Old Chicks.

This is about your last chance to get one of our extra fine birds for a breeder. Write for prices. **PITTSFIELD POULTRY FARMS CO.**
190 MAIN STREET HOLLISTON, MASS.

SMITH'S S. C. BUFF LEGHORNS—I HAVE NO OTHER BREEDS

The largest and best breeder of Buffs in the world. Fair at San Francisco in 1915. My birds are show great layers and show birds for the past 17 years. 1916: 15 pens mated with one male and one female. 100 and up.

Winners at fifteen of the largest shows, including Hagerstown, Chicago, and the World's color and type and are bred to lay the year around. I have taken great care in producing Can furnish breeding stock, baby chicks and eggs by the thousands. Thirty-one pens for Eggs \$2.00 to \$30.00 per 15, and \$10.00 per 100. Baby chicks \$6.00 for 25, or \$20.00 per

F. S. SMITH

Box C. and D.

HAMILTON, O.

"Certified Layers"

ENGLISH 200-EGG STRAIN

S. C. WHITE LEGHORNS
S. C. R. I. REDS

WHITE WYANDOTTES
BUFF ORPINGTONS



"Champion Layers"—We BRED THEM



WHITE WYANDOTTE
Official Record, 265 Eggs

These five White Leghorn pullets won the silver cup and seven medals in the last North American Laying Competition. This pen produced 1,139 eggs, the highest official record made by any pen of five hens bred on American soil. Individuals produced 251, 250, 224, 222 and 192. Remember, we bred these

COMPETITION WINNERS

which defeated the Leghorn entries of Tom Barron and Ed. Cam. We still own them as well as hundreds of other heavy-layers, carrying the same blood. A thorough-bred English cockerel sired a pullet that broke all records, making an official record of 314 eggs, in North American Egg Laying Competition, 1915. If you want Leghorns that lay, if official egg-records mean anything to you, you should secure our strain. Our Reds, Wyandottes and Orpingtons are also wonderful layers. We have many individuals which hold remarkable official records and this bred-to-lay strain is strong in every bird in our great flocks. We supply

Eggs for Hatching, BABY CHICKS, Early Hatched Cockerels, Breeding Stock



BUFF ORPINGTON
Record, 272 Eggs

at very moderate prices. And our customers know what they are getting because we have demonstrated the quality of our stock thru consistent winnings at the great public laying competitions.

Write today for copy of

"THE STORY OF THE 200-EGG HEN"

which contains pictures and records of our competition winners, plans of trap nest, feeding formulas and other valuable information which will help you make your flock more productive and profitable. Price 10 cents; deducted from first order.

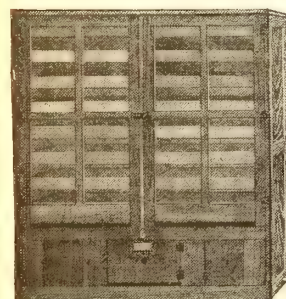


S. C. R. I. RED
Official Record, 251 Eggs

PENNA. POULTRY FARM, Box A Lancaster, Pa.
America's Foremost Breeders of "Hens-That-Lay"

DOUBLE QUICK GRAIN SPROUTER

THE PERPETUAL POULTRY SILO
The First, the Original, the Pioneer. Six sizes, $\frac{1}{4}$ bu. to 8 bu.—a few hens to 1000.



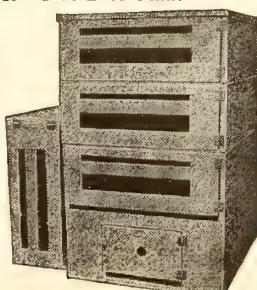
The Grain Sprouter
Doubles the Egg Yield
Cuts in Half the Feed Bill

Sprouts in 24 hrs. and forces growths of 1 to 2 inches daily
Sprouted Oats for Winter Eggs

Get the very low prices from the pioneers and largest manufacturers of Grain Sprouters.

THE COLFAX All-Metal SPROUTER

Built in Sections—Add Sections as your Flock Increases. Two Base Units.



CLOSE-TO-NATURE CO., 38 Front St., COLFAX, IOWA

son & Co., Blairsville, Pa., 1-3 cock, 2-5 hen, 3 ckl, 1-3 pit, 1-2 yng pen, 1 old pen; R. T. Seibert, Harding Ave., Washington, Pa., 2 cock; Fred Beichler, Box 94, E. McKeesport, Pa., 4 cock; H. C. Cornell, 410 Marshall Ave., McKeesport, Pa., 5 cock, 1-3 hen, 2-5 pit, 4 old pen; I. B. Richardson, Bentleyville, Pa., 4 hen, 4 pit; W. T. Bennett, N. Market St., Lisbon, O., 1-4 ckl; Alex. Peterson, Box 182, Scottsdale, Pa., 2 ckl; J. J. Bennett, Lisbon, O., 5 ckl; Chas. McCormick, Bentleyville, Pa., 2 old pen; Chas. P. Gloggers, R. D. No. 2, Glenshaw, Pa., 3 old pen.

GOLDEN LACED WYANDOTTES—Wm. J. Fox, Cabot, Pa., 1 cock, 1 hen, 1 ckl, 1 pit.

BUFF WYANDOTTES—W. F. Gisler, 1 cock; C. J. & E. V. Kolb, 7233 Verona Blvd., Pittsburgh, Pa., 2 cock, 1-2 hen, 1-2 ckl, 1-5 pit, 1 old pen; W. H. Davis, 1522 Ridge Ave., Coraopolis, Pa., 3 cock, 3 hen, 3 pit; N. Bowland, 4 hen, 2-4 pit.

SILVER LACED WYANDOTTES—C. R. Weinman, 425 Liberty St., Pittsburgh, Pa., 1-5 cock, 1-2 ckl, 3 pit, 2 old pen; Peter Groff, 3d, Craigville Sta., Worthington, Pa., 2-4 cock, 2-4 hen, 3 ckl, 2-5 pit, 1 yng pen, 3 old pen; Wm. J. Fox, 3 cock, 1-3 hen, 1 ckl, 1-4 pit, 1 old pen.

PARTRIDGE WYANDOTTES—J. W. Hazlett, Marianna, Pa., 1 cock; James L. Coulter, New Wilmington, Pa., 1 hen, 1 ckl, 1 pit; John A. Schadel, 318 Attica St., Pittsburgh, Pa., 2-3 pit.

COLUMBIAN WYANDOTTES—Wilburtha Poultry Farm, Trenton Junction, N. J., 1-2 cock, 1-2-3 hen, 2-4 ckl, 2-3 pit, 2 yng pen, 1 old pen; Levi A. Ayers, Granville, N. Y., 3-5 cock, 4 hen, 1 ckl, 1-5 pit, 1-3 yng pen, 2-3 old pen; Austin G. Warner, Whitesboro, N. Y., 4 cock, 5 hen, 3 ckl; Geo. M. Wilkinson & Co., Blairsville, Pa., 5 ckl, Frank F. Shingler, E. Liverpool, O., 4 pit.

S. C. R. I. REDS—F. M. Osborne, Jr., 383 E. Beau St., Washington, Pa., 1-3 cock, 1 ckl, 4-5 pit, 3 yng pen, 1 old pen; Wilburtha Poultry Farm, 2 cock, 3-4 hen, 2-5 ckl, 2 yng pen; Ernest Groves, 710 7th St., Altoona, Pa., 4 cock; Bellwood Farm, R. F. D. No. 1, Perrysville, Pa., 5 cock, 2-5 hen, 4 yng pen; F. L. Poultry Farm, Verona, Pa., 1 hen, 5 yng pen; James M. McQuiklin, 426 Washington Ave., Carnegie, Pa., 3 ckl, 2 pit; Hildorfer Black Minorca Poultry Farm, Saxenburg, Pa., 4 ckl; Oscar E. Miles, 62 Hartman Bldg., Columbus, O., 1 pit, 1 yng pen; Jos. M. Hunt, Meadow Brook Farm, Leetonia, O., 3 pit.

R. C. R. I. REDS—F. L. Poultry Farm, 1 cock, 4 hen, 5 ckl, 5 pit, 1 yng pen; E. W. Robinson, Newell, W. Va., 2-4-5 cock; Chas. J. Lochinger, Park Lane, Carrick, Pa., 3 cock, 1-2-3 hen, 3-4 ckl; Stewart C. Murrie, West Newton, Pa., 5 hen, 3-4 pit, 1 old pen; L. B. Priddy, Jerry City, O., 1 ckl, 1-2 pit, Frank C. Mullet, 213 10th St., Aspinwall, Pa., 2 ckl.

DARK CORNISH—T. H. Hetherington, Monongahela, Pa., 1-2 cock, 3-4 hen, 3-4 ckl, 3-4 pit, 2 yng pen, 1 old pen; J. M. Hazlett, Marianna, Pa., 3-4 cock, 1-2 hen, 1-2 ckl, 1-2 pit, 1 yng pen.

S. C. BLACK ORPINGTONS—Foxhurst Farm, Lime Rock, Conn., 1-2-3 cock, 1-2-4 hen, 1-2-3-4 ckl, 1-2-3-4 pit, 1 yng pen, 1 old pen; Chas. McCormick, Bentleyville, Pa., 4 cock; J. E. Story, Latrobe, Pa., 5 cock; John S. Detweiler, 7 Maplewood Ave., Crafton, Pa., 3-5 hen; Harold S. Clark care Silver Maples, McKeesport, Pa., 5 ckl, 5 pit.

S. C. WHITE ORPINGTONS—Wm. Klegline, 1308 Murtland Ave., Pittsburgh, Pa., 1 cock, 5 pit, 1 old pen; Otto J. Eberle, 1535 Grandview Ave., Pittsburgh, Pa., 2-3 cock, 1-4 hen, 2 ckl, 2 pit, 2 yng pen, 2 old pen; J. L. Stephenson, Jacksonville, O.,

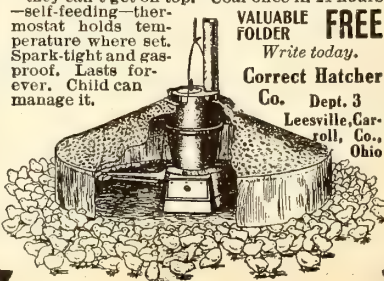
Correct Coal-Burning Hover \$11.85

Bigger value ever offered in coal-burning hovers. Higher temperature than oil—always even—less work and no worry. Perfect combustion—self-regulating—self-cleaning.

CHANCE FOR BIG PROFITS Investment only \$11.85

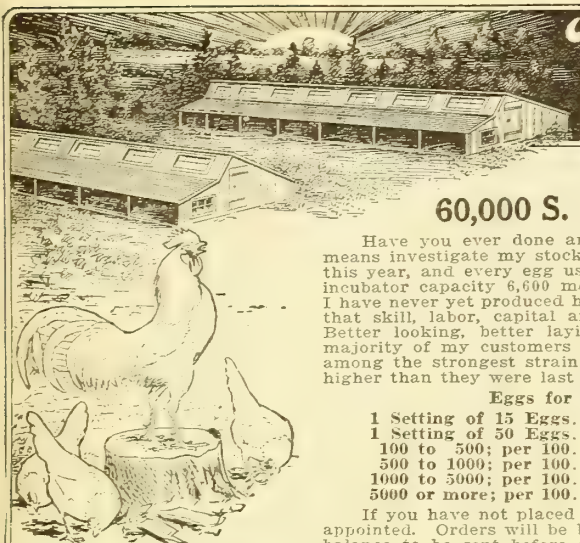
Bigger birds in shorter time. Bird ailments eliminated. Saves coal and care.

52-inch, cast-iron hover—can't rust. Portable from house to house—keep it going all the year. Cone-shaped—heat goes down on chicks—they can't get on top. Coal once in 24 hours—self-feeding—thermostat holds temperature where set. Spark-tight and gas-proof. Lasts forever. Child can manage it.



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Write today.

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Leesville, Carroll Co., Ohio



"SUNLIGHT" POULTRY FARM S.C.W. LEGHORNS

Greatest Known Layers. (D. W. Young) Strain

60,000 S. C. White Leghorn Baby Chicks For Sale in 1916

Have you ever done any business with the Sunlight Poultry Farm? If not, you should by all means investigate my stock and business methods. I shall operate two Candee Mammoth Incubators this year, and every egg used will be from my birds here on the farm. Again I have increased my incubator capacity 6,600 more and know that I shall be taxed to the limit for months this season. I have never yet produced half enough chicks to supply the demand. I am breeding the best Leghorns that skill, labor, capital and experience can produce—such Leghorns as 98% of the public desire. Better looking, better laying and stronger stock cannot be bought anywhere at any price. The majority of my customers raise almost every chick, and some of them raise every one, as they are among the strongest strain of birds you can find in America today. My prices for this year are no higher than they were last year. Prices are as follows:

Eggs for Hatching

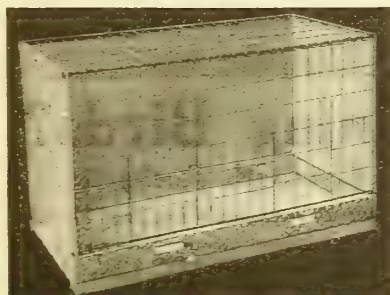
1 Setting of 15 Eggs.....	\$1.50
1 Setting of 50 Eggs.....	3.50
100 to 500; per 100.....	6.50
500 to 1000; per 100.....	6.00
1000 to 5000; per 100.....	5.50
5000 or more; per 100.....	5.00

Day-Old Chicks

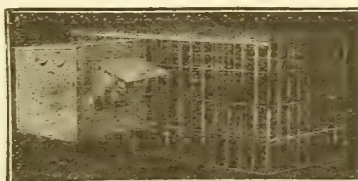
25 to 50 Chicks.....	\$.11
50 to 100 Chicks.....	.13
100 to 500 Chicks.....	.12
500 to 1000 Chicks.....	.11½
1000 to 5000 Chicks.....	.11
5000 or more Chicks.....	.10

If you have not placed your order, right now is the time to place your order so as to not be disappointed. Orders will be booked for future delivery on receipt of one-fourth the purchase price; the balance to be sent before order is shipped. Cocks, cockerels, trios and pens for sale at all times. Write your wants. Catalog free. Satisfaction guaranteed.

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Model Training and Exhibition Coop



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Economy Trap Nest

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Norwich-Feeding Proven Better Than Hand-Feeding

No one disputes the fact that the use of Norwich Automatic Feeding Appliances reduces labor and saves feed. Here is official proof that these machines also produce better results than hand-feeding.

All layers in the four completed North American Laying Competitions have been fed by Norwich Automatic Feeders; in the two Connecticut Competitions practically the same ration was used but was hand-fed. Now note the average production of the entire flock by years:—

North American Competition:—154; 156; 170; 165

Connecticut Competition:—144; 151

Average N. A. Competitions, with Norwich Feeders:—167½ eggs per hen

Average Connecticut Competitions, hand-fed 147½

Proven gain from use of Norwich Automatic Feeders, 20 eggs per hen.

With eggs valued at 3 cents each, this amounts to 60 cents per layer, or \$600 for a flock of 1,000 hens.

TEST NORWICH AUTOMATIC EQUIPMENT AT OUR RISK

Use one or many of our feeders for 30 days. If you are not satisfied with results, return feeders and your money will be refunded. Can you afford to hesitate when we offer to prove at our risk that you can secure better results?

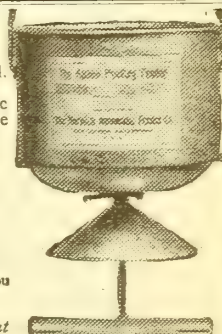
Most live dealers in poultry supplies will furnish Norwich Equipment on the above terms. If necessary we will ship direct on your order.

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Our new Apaco Feeder, 12-quart capacity, is similar in action to the Norwich Automatic Feeder, but is specially designed for owners of small flocks. For One Dollar we will deliver an Apaco Feeder to any point in the U. S. east of the Mississippi; \$1.30 beyond that point. Order today and feed your layers right!

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Apaco Poultry Feeder
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Baby Chicks and Eggs of Quality

Do you want eggs that will hatch and chicks that will live from pure bred stock with plenty of size, true type and bred for heavy egg production? We are specialty breeders and exhibitors and not simply a hatchery. All eggs and chicks from same birds we raise our own winners. Barred, Buff, White, Partridge Rocks, White, Buff, Partridge, Silver Wyandottes, Buff, Black, White Orpingtons, S. and R. C. Reds, Light Brahmas, Black Langshans, S. C. White, Brown Leghorns, Silver, Golden Campines, Anconas, S. and R. C. Black Minorcas. Catalog with pictures, show records and prices free. Order at once for early chicks and eggs.

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STERLING, ILL.

BUFF Orpingtons

Not having buildings on the farm I bought recently, to accommodate all the birds I now have, am going to sell 18 cocks, 25 hens, 85 cockerels and 125 pullets at bargains very seldom offered at this time of the year. Don't lose any time, but write at once for price.

O. M. ABBOTT, Box 10, Whiteland, Indiana

4 cock; James J. Cooley, 1675 Potomac Ave., Pittsburgh, Pa., 5 cock, 2-3 hen, 5 chl, 1 plt; Henry A. Butler, 444 Wick Ave., Youngstown, O., 5 hen, 4 chl; Oak Hill Poultry Yards, 136 Forest Ave., Ben Avon, Pa., 1-3 chl, 3 plt, 1 yng pen; Mrs. A. Callender, 28 Hodgson Ave., Ingram, Pittsburgh, Pa., 4 plt.

R. C. WHITE ORPINGTONS—Walter M. Minter, 6992 Lemington Ave., Pittsburgh, Pa., 1 cock, 1 yng pen; Wm. C. Gist, Wellsville, W. Va., 2 cock, 2 hen, 2-4 chl, 1 plt; Saml. Carlisle, 1639 Missouri St., E. E. Pittsburgh, Pa., 1-4 hen; John B. Miller, 334 Bellbrook St., Pittsburgh, Pa., 3-5 hen; Glenwood Poultry Farm, Sta. A. Route 3, Syracuse, N. Y., 1-3 chl, 2-4 plt; Edwin M. Preston, Baldwin, L. I. N. Y., 5 chl, 5 plt; E. K. Templeton, 7213 Mt. Vernon St., E. E. Pittsburgh, Pa., 3 plt.

Used Piano \$95

Other bargains from \$45 to \$195. All standard makes, including Steinway, Knabe, Emerson, Kimball, taken in exchange on Starck Pianos and Player-Pianos. Also used player-pianos \$195 to \$345. 30 days FREE Trial. Easiest payments. 50 music lessons FREE. Write quick for Bargain List.

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LOWEST PRICES on bicycles, tires and sundries. Do not buy until you receive our catalogs and learn our unheard of prices and marvelous special offer. Tires, coaster-brake rear wheels, lamps, parts, sundries, half usual prices. **MEAD CYCLE CO., Dept. M265 CHICAGO, ILL.**



S. C. BUFF ORPINGTONS—Sunnycroft Farm, Washington, Pa., 1 cock, 3 hen, 2 chl, 2 plt; Hubbard's Buff Orpingtons, Lime Rock, Conn., 2 cock, 1 hen, 1-3 chl, 1-3 plt; Fowler & Sons, Baden, Pa., 3 cock; R. A. Johnson, Bentleyville, Pa., 2 hen, 5 plt; Dr. D. C. Mullen, 1509 Beechview Ave., Pittsburgh, Pa., 4 chl, 4 plt.

R. C. BUFF ORPINGTONS—Dr. T. H. Smith, Knoxville, Pa., 1 cock, 1-2 hen, 1-2 chl, 1-2 plt, 1 old pen.

S. C. WHITE LEGHORNS—Howard Shoenberger, 321 E. Washington St., Slatington, Pa., 1 cock, 5 chl; A. J. Murphy, Sewickley, Pa., 2-5 cock, 2 hen, 1 old pen; John Rodda, 709 Washington Ave., Carnegie, Pa., 3 cock; F. W. Amos & Son, 2315 California Ave., N. S. Pittsburgh, Pa., 4 cock, 3 hen, 3 chl, 1 plt; W. J. Gowern, Jr., 409 Ridge Ave., Canonsburg, Pa., 1 hen, 1-2 chl, 5 plt; Oscar E. Miles, 4-5 hen, 4 N. Main St., Wolden, Pa., 4-5 hen, 4 N. Main St., 2-4 plt, 1 yng pen; Arthur L. Lyle, 424 N. Main St., Washington, Pa., 3 plt; H. Fry, 223 Mansion St., Glenwood, Pittsburgh, Pa., 2 yng pen; G. E. Meeks, 246 Fayette St., Washington, Pa., 3 yng pen; T. H. Kruse, R. D. No. 4, Box 227, Ewalt Sta., Pittsburgh, Pa., 4 yng pen; John Hickey, 105 E. 4th Ave., Homestead, Pa., 5 yng pen; P. J. Thompson, 1411 5th Ave., Youngstown, O., 2 old pen; Alva S. Graham, Evans City, Pa., 3 old pen; J. H. Leffler, R. 40, Jamestown, Pa., 4 old pen; Henry Bosaw, 1301 Grandview Ave., Pittsburgh, Pa., 5 old pen.

S. C. BROWN LEGHORNS—Frank Schellang, R. F. D. No. 1, Erie, Pa., 1 cock; Joseph F. Winters, 6399 Penn. Ave., Pittsburgh, Pa., 2 cock; John Port, 140 Linwood Ave., Carrick, Pa., 1 hen, 1 chl, 4 plt; W. J. Smith, 316 Liberty St., Carnegie, Pa., 2 chl, 1-2 plt; G. & E. DuBarry, 435 S. Pacific Ave., Pittsburgh, Pa., 3 plt; James Arden, West Newton, Pa., 1 exh. pen.

S. C. BUFF LEGHORNS—Thornycroft Buff Leghorn Farm, Washington, Pa., 1-2-

4-5 cock, 1-2-3-4 hen, 1-2-3 chl, 2 plt, 2 yng pen, 2 old pen; Wilburtha Poultry Farm, 3 cock, 5 hen, 4 chl, 3 plt, 1 yng pen, 1 old pen; Jas. Murray, 922 Idlewood Ave., E. Carnegie, Pa., 5 chl; R. S. Keightlinger, 118 Brady Ave., Washington, Pa., 1-4 plt; Geo. H. Bicker, R. F. D. No. 2 Cabot, Pa., 5 plt; George W. Rex, Slatedale, Pa., 3 yng pen.

BLUE ANDALUSIANS—Harry Mosley & Sons, Tarentum, Pa., 1-2 cock, 1 hen, 2-5 plt, 1 yng pen; M. T. & J. F. Amos, Mt. Carmel Rd., Verona, Pa., 2 hen, 1 chl, 4 plt.

S. C. SILVER DUCKWING LEGHORNS—George Guenther, 28 Warren St., N. S. Pittsburgh, Pa., 1 yng pen.

S. C. ANCONAS—W. H. Branthoover, 6115 Station St., Pittsburgh, Pa., 1-2-4 cock, 3 hen, 4 chl; S. H. Keeney, R. D. No. 2, Washington, Pa., 3 cock, 3 plt, 1 yng pen; Cockcroft Bros., 1317 Nobles Lane, Carrick, Pa., 1-2 hen, 5 chl, 1-4 plt; W. J. Fulton, 260 Highland Ave., McKeesport, Pa., 4 hen, 3 chl, 2-5 plt; Fred A. Wolfe, 1 chl; G. A. Bell, Grant & Center Ave., Carnegie, Pa., 2 chl.

R. C. ANCONAS—C. H. Mills, Warren, O., 1 cock, 1-2 hen, 1 chl, 1 plt, 1 yng pen; George Walz, 6409 Clifford St., E. E. Pittsburgh, Pa., 2 chl.

SILVER CAMPINES—Miller Bros., New Concord, Pa., 1 plt.

GOLDEN CAMPINES—Roberne Campine Yds., 7431 Duquesne Ave., Swissvale, Pa., 1 cock, 1 plt.

S. C. BLACK MINORCAS—Hilldorfer Black Minorca Farm, Saxenburg, Pa., 1-2 cock, 1-2-3 hen, 1-2 chl, 1-2-3-4-5 plt, 1 yng pen, 1 old pen; S. H. McClinton, 2917 Stayton St., N. S. Pittsburgh, Pa., 3 cock, 2 old pen; Louis Schmertz, Box 137, E. McKeesport, Pa., 4 cock; Edward A. Niele, 581 Neeb St., Pittsburgh, Pa., 5 cock, 5 hen; A. D. Phillips, Monongahela, Pa., 3 hen; J. D. Bowers, 317 Barr Ave., Crafton, Pa., 3-5 chl; P. Hendershot, 951 Flemington

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The Henderson Strain are the World's Foremost Plymouth Rocks

Because They Have an Established Official Record for the Past Twenty Years at America's Leading Shows

Their wonderful winnings in the past were eclipsed this year by their performance at two great shows. In competition with the best from the yards of our foremost breeders, and in the largest classes ever shown in the South and great Middle West, they won eighteen out of a possible twenty-two first prizes. This unprecedented victory was attained with two different strings of birds and the fact that the Henderson Strain won every first prize offered on male birds at these two great shows is revelation in Barred Rock breeding.

Write me if you want the best quality of exhibition birds to show at your coming show. I can send you birds in the pink of show condition at prices that will suit.

I have a grand lot of breeding birds, either cockerel or pullet bred, that have the quality necessary to produce winners. If you want a down to date breeding male bird, I can furnish you with more quality for less money than any other breeder.

Two of the Greatest Wins Ever Made by a Barred Rock Breeder

At the Tri-State Show held at Memphis, Tennessee, the last week in October, 1915, in competition with 553 Barred Plymouth Rocks from the yards of our best breeders, the Henderson Strain won as follows:

First Prize Exhibition Cock, First Prize Exhibition Cockerel, First Prize Pullet Bred Cock, First Prize Pullet Bred Cockerel, First Prize Cockerel Bred Hen, First Prize Cockerel Bred Pullet, First Prize Exhibition Pen First and Second Prize Cockerel Bred Pens, First and Second Prize Pullet Bred Pens, Special Prize for the Best Display in the American Class; Sweepstakes Prize for the Best Exhibit in the Show, all varieties competing, my birds winning over two thousand points; Sweepstakes Special for the Best Cockerel from Missouri.

NOTE—I won every first prize offered on males and breeding pen at this show.

At the Great Coliseum Show held at St. Louis the last week in November, 1915, in competition with the cream of the country, the Henderson Strain, with an entirely different string of birds than was shown at Memphis, won as follows:

First and Third Prize Exhibition Cock, First Prize Exhibition Cockerel, First Prize Exhibition Hen, First and Third Prize Pullet Bred Cock, First, Second and Third Prize Pullet Bred Cockerel, Third and Fourth Prize Exhibition Pullet, First and Second Prize Cockerel Bred Hen, First and Third Prize Exhibition Pen, First Prize Cockerel Bred Pen, First Prize Pullet Bred Pen; Special Sweepstakes Prize for the Best Display in the Show, all varieties competing; Special Sweepstakes Prize for the Best Pen in the Show, all varieties competing; Special Sweepstakes Prize for the Best Hen in the Show, all varieties competing; Special for the Best Display in the American Class, Grand Champion Male, Grand Champion Female, Special for the Best Colored Male, Special for the Best Shaped Male, Special for the Best Colored Female, Special for the Best Shaped Female.

NOTE—I won every first prize offered on males and pens at this show. My first prize exhibition hen and pen were in a class by themselves, winning both sweepstakes prizes. This is the first time that these honors were ever conferred on Barred Plymouth Rocks at any leading poultry show.

These winnings have never been approached by any other Barred Rock breeder. I have, after twenty years of selective breeding, produced that excellence of quality that shows only in the Henderson Strain, and the official record in the leading show rooms of the country shows without a doubt who has the best producing strain.

Write for my descriptive catalog of one of the largest Barred Plymouth Rock farms in the world.

For the season of 1916 I will mate forty breeding pens which will consist of the finest specimens of Barred Rocks that were ever selected for breeding purposes. Send your order for eggs as soon as possible so they may be shipped to you at the time you want them.

W. W. HENDERSON

St. Louis Offices, Suite 1212, Central National Bank Building

BRIDGETON, St. Louis County, MISSOURI

DR. HEASLEY WINS AGAIN

with his EGG BASKET STRAIN OF S. C. BUFF LEGHORNS in the world's hottest competition in laying contests and at the December, 1915

Chicago Coliseum and World's Fair Show

At Panama-Pacific with 4 entries in 4 classes we won three ribbons. At Chicago, against the world's best breeders, we won 104 points to 31 of nearest competitor, winning championships in all shape and color specials, 37 birds entered; 34 under ribbons. At Official Egg Contests made records: 211 in 9½ mos.; 215 in 11 mos.; 230 in 11½ mos. Bred for eggs but fit to show. Egg-bred cockerels at \$3.00 and \$5.00. Show stock for anywhere. My kind pay.

DR. L. E. HEASLEY

Box A

HOLLAND, MICHIGAN



1st Hen, Chicago Coliseum, Dec., 1914

St. Pittsburgh, Pa., 4 ckl, 2-3 yng pen; John Bauman, 2816 California Ave., N. S. Pittsburgh, Pa., 3 old pen; Geo. McDermott, 22 Wood Ave., Braddock, Pa., 4 old pen.
R. C. BLACK MINORCAS—Chas. Snyder, Box 313, Butler, Pa., 1 cock, 1 hen, 1 ckl, 1 plt; J. E. Weaver, Davidsville, Pa., 2-3 hen.

R. C. WHITE MINORCAS—A. C. Peterson Box 182, Scottdale, Pa., 1 cock, 1 hen, 1 ckl, 1 plt.

BUTTERCUPS—W. White, Millvale, Pa., 1 hen, 3-4 ckl; Rev. Hugh S. Shaw, R. F. D. No. 1, Euclid, Pa., 1-2 plt; D. J. White, 1222 Patton St., Wilkesburg, Pa., 1 old pen.

LIGHT BRAHMAS—Wm. T. House & Son, 444 N. Front St., Wheeling, W. Va., 1-2 cock, 1-2-3-4-5 hen, 1 ckl, 1 plt, 1 old pen; Geo. Seath, Turtle Creek, Pa., 2 ckl, 4-5 plt; W. J. Crawford, Bentleyville, Pa., 3-4 ckl, 2-3 plt, 1 yng pen.

BLACK LANGSHANS—W. H. Frenz, 4 Hunnel St., N. S. Pittsburgh, Pa., 1 cock, 2 ckl, 1 plt; Geo. Milne, 2030 S. Columbus Ave., Sandusky, O., 2 cock; M. Keiffer, 216 Dewey St., Pittsburgh, Pa., 3-4 cock, 1-2 hen, 1-3 ckl, 2-3 plt, 1 yng pen; S. B. Cummings, 621 Oak St., Irwin, Pa., 5 cock, 3 hen.

WHITE LANGSHANS—W. F. Smith, 1-2-3 hen, 1-2 ckl, 1-2-3 plt.

PIT. GAMES SILVER DUCKWING—W. H. Williams, Box 843, Carey, O., 1 cock.

BLACK BREASTED RED GAME—The Briar Patch, Razmilton, Pa., 1 hen.

AWARDS AT MASON CITY, IOWA, SHOW.

C. E. Ramsey, President.

BARRED PLYMOUTH ROCKS—J. S. Peterson, Ringsted, 1-2 hen, 3 plt, 1 pen; L. E. Wilson, Eagle Grove, 1-2 plt; Lee Martin, Eagle Grove, 1 ckl; R. W. Clark, Sheffield, 2 pen.

WHITE ROCKS—S. Green, Mason City, 1 cock.

R. C. RHODE ISLAND REDS—C. C. Braend, Charles City, 1 hen, 2 ckl, 1 plt, 1 pen; L. H. West, Mason City, 2 hen; A. Schaub, Mason City, 3 hen, 2 pen, 1 ckl; F. D. Ford, Rockwell, 3 ckl; H. D. Reynolds, Mason City, 2-3 plt.

S. C. RHODE ISLAND REDS—Starr Parker, Mason City, 1 cock, 1-3 hen, 2-3 plt; A. E. Harding, Mason City, 1 plt.

SILVER CAMPINES—B. A. Wisner, Mason City, 1 cock, 1-2-3 plt, 1 pen; C. E. Ramsey, Mason City, 2 cock, 1-2-3 hen, 2 pen.

WHITE PLUMES—Lee Martin, Eagle Grove, 1 ckl, 1 plt.

WHITE ORPINGTONS—Paul Scott, Mason City, 1 ckl, 1-2-3 plt, 1 pen; Jerry Dyril, Cedar Rapids, 1-2 hen.

BUFF ORPINGTONS—August Peterson, Churdan, 3 cock, 1-2-3 hen, 3 ckl, 1 plt, 2 pen; Wm. Spear, Mason City, 1-2 ckl, 2-3 plt, 1 pen.

S. C. ANCONAS—H. L. Devitt, Mason City, 2 hen; E. Zerbile, Mason City, 1-3 ckl, 1-2-3 plt, 1 pen.

R. C. ANCONAS—Farnsley & Holub, Mason City, 1-2 ckl, 1-2-3 plt.

S. C. WHITE LEGHORNS—P. A. Redfern, Mason City, 1-2-3 hen; Decker & Miller, Mason City, 2-3 ckl, 1-2-3 plt, 1 pen.

R. C. BROWN LEGHORNS—G. A. Linder, Hampton, 1-2 hen, 1 ckl, 1-2 plt, 1 pen.

WHITE WYANDOTTES—R. L. Haw-

thorne, 1 ckl; M. E. Kinney, Manly, 2 ckl, 1-2-3 plt, 1 pen.

BUFF WYANDOTTES—Paul Birbeck, Mason City, 3 hen; Geo. Deyoe, Mason City, 1 cock, 1-2 hen, 1-2-3 ckl, 1-2-3 plt, 1 pen.

PARTRIDGE WYANDOTTES—H. Van Note, Mason City, 1 cock, 3 ckl, 2 pen; Vern Cheesman, Mason City, 2 cock, 1-2-3

hen, 1 pen; F. C. Siegfried, Rockwell, 1-2-3 plt.

TOULOUSE GEESE—Frank Green, Mason City, 1 old gander, 1 old goose.

WHITE EMBDEN GEESE—M. E. Kinney, 1 goose, 1 gander.

IMPERIAL PEKIN DUCKS—M. E. Kinney, 1 drake, 1 duck.

Which way do you work?



The old
back-breaking
way?

OR



The
Planet Jr.
way?

You can't afford to cultivate in the old slow back-breaking way. The Planet Jr way takes the drudgery out of labor, and produces bigger, better crops. Planet Jrs are the greatest time-savers ever invented for farm or garden; and the most economical cultivating tools you can use.

Planet Jr tools are the product of a practical farmer's inventive genius and manufacturing experience of half a century. Last a lifetime. Fully guaranteed.

No. 4 Planet Jr Combined Hill and Drill Seeder, Wheel-Hoe, Cultivator and Plow pays for itself in a single season in the family garden as well as in larger acreage. Sows all garden seeds (in drills or hills), plows, opens furrows and covers them, hoes and cultivates easily and thoroughly all through the season.

No. 11 Planet Jr Combined Double and Single Wheel-Hoe, Cultivator, Plow and Rake. Straddles crops till 20 inches high, then works between rows with one or two wheels. The plows open furrows and cover them. The cultivator teeth work deep or shallow. The hoes are wonderful weed-killers. The rakes do fine cultivation and gather up trash. Unbreakable steel frame. 14-inch steel wheels and specially hardened steels—both new this year. The greatest hand-cultivating tool in the world.

Thousands of Planet Jr hand-tools (seed drills and wheel-hoes) are used in kitchen gardens. We make 32 styles—various prices. You can't afford to work without a Planet Jr.

New 72-page Catalog (184 illustrations) free!

Describes over 70 tools, including 12 entirely new ones, and improvements to our Seeders, Wheel-Hoes, Horse Hoes, Harrows, Orchard-, Beet- and Pivot-wheel Riding-Cultivators. Write postal for it today.

S L Allen & Co

Box 1107T

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Raise Poultry in Sunny Virginia

Choice farms along Chesapeake & Ohio Ry. at \$15 an acre and up. Moderate climate the year around affords ideal condition for poultry raising. Convenient to large eastern markets where good prices can be obtained. Also convenient to good schools and churches. Write for illustrated farm home booklet, "Country Life in Virginia," and low excursion rates. Address K. T. Crawley, Indus. Agt., Room 1034, C. & O. Ry., Richmond, Va.

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is the cheapest, as well as the best dog bred today when you consider that "They will do anything that another dog can do." Hunters, ratters, watch-dogs, companions, stock-drivers, all in one. Spayed Bitch Pups make wonderful good all round dogs. Our Pamphlet will tell you—its FREE.

Collies—Beautiful, intelligent, reliable. Dog and bitch pups, spayed pups, matured stock for sale. List on request. P. L. Savage, St. Charles, Illinois.



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The world's best safety lamp and perfect egg tester. Has extra strong bulls-eye lens.

Price single tester.....\$1.40

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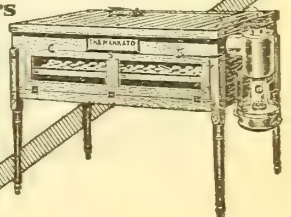
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SEND your name and address at once to the biggest northwestern incubator and brooder factory and get big free book, Record breaking prices. Quick delivery. Instant attention to all your needs.

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are made of genuine California redwood, lined with heavy asbestos. Heavy pure copper hot water heating system. Perfect automatic regulator. Correct ventilation. Safety lamp. High nursery. Strong egg tray. Tested thermometer. Egg tester and all extras free. The easiest incubator to run ever built. Thousands of successful users back the Mankato. Write Today for the big book full of descriptions of the finest incubators and brooders at lowest prices.

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At the Great Panama-Pacific International Exposition Poultry Show

NOVEMBER 18TH TO 25TH, 1915

McCONNELL'S S. C. Black Minorcas

again substantiate the claim of America's Greatest Trap-nested Egg-producing and Exhibition strain by winning in one of the largest and best classes ever exhibited.

COCKS	HENS	C'KL'S	PULLETS	PEN
1-2-4-6-7	3-4-8	1-2-4-5	1-2-3	2

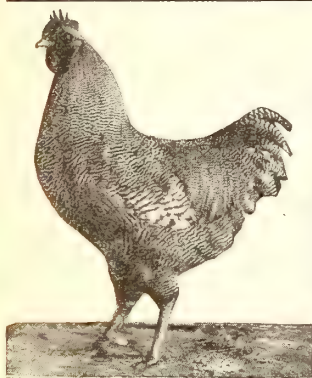
also fifteen birds in the hands of my customers were in the ribbons.

Large, snappy, vigorous Trap-nested Exhibition or Breeding stock for sale, that will improve any flock or win any show in America. I sell eggs that will hatch regardless of distance of shipment. Send for Sales and Mating lists of the strain that delivers the goods. **BREEDING FOR EGGS MY HOBBY.**

J. V. McConnell

Box 279-A

Garden Grove, Calif., U. S. A.



You Know

the most coveted prize, the one that all breeders strive for? Well, that prize was captured at Boston, 1916, by **TANTALIZER**, 1st Cockerel and Champion

Barred Rocks

In addition to this my birds won 3d cockerel, 4th pullet, color special, 3d cockerel-bred hen, 3d cockerel-bred pullet, 4th cockerel-bred pen. Think of it! This wonderful win with only 8 entries. Also consider that unlike other Eastern shows, the cockerel class was composed of 20 different exhibitors. Have a few brothers and sisters of these wonderful birds at prices within your reach; also eggs from these winners. Send for complete list of our winnings.

W. W. Carpenter, E. Providence, R. I.

"Tantalizer" is a grandson of Boston King.
1st cockerel, Boston, 1913.

Wolf's R. C. White Leghorn Winners

Winners at the Great National Shows, Chicago Coliseum, Milwaukee, St. Paul, Duluth and many others. Won this year at Milwaukee, Silver Cup for best display, which included 5 firsts, 3 seconds, 3 thirds, 1 fourth. This record made in competition with birds winning at the World's Fair, San Francisco. Our birds have especially fine type, long broad backs, and real color.

Eggs for hatching. Stock for sale. Catalog free. Write today.

MRS. JOHN WOLF

Box 40

MERRIFIELD, N. DAK.

NOVAK'S WHITE ORPINGTONS

Winners at Milwaukee, Racine, Wisconsin State Fair, and wherever shown. Won at Milwaukee this year—1st and 3d cockerel, 3d and 4th hen (4 entered). Racine—1st, 2d, 3d and 4th cock; 1st, 2d, 3d and 4th hen; 1st, 2d, 3d, 4th and 5th cockerel; 1st, 2d, 3d, 4th and 5th pullet; best display. White Leghorns (two entries), 1st pullet, 3d cock, special best female. First White Orpington Cockerel at Milwaukee for sale at a bargain. Eggs for hatching. Stock for sale at reasonable prices. Write at once.

NOVAK POULTRY FARM

R. R. 1, Box 85

MRS. NOVAK

Racine, Wisconsin

BALDWIN'S BUFF LEGHORNS

Winners This Year at Racine, Wisconsin

one of the greatest Buff Leghorn shows in the country (6 birds entered)—1st cock, 1st cockerel, 1st and 2d hen, 1st and 2d pullet, all specials. Winners wherever shown.

Eggs for hatching. Stock for sale. Write Today.

Mrs. E. H. Baldwin

Box G, Racine, Wisconsin

White Wyandottes

REGAL STRAIN

Won 1st and 4th Cockerels, Illinois State Show, DeKalb, January, 1916. Stock—Eggs for hatching, and Baby Chicks for sale.

GEO. P. SANFORD

State Road

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BABY CHICKS OF QUALITY

Barred Rocks, White Rocks, Single Comb White Leghorns

Write for Catalog and Prices

NORMAN FARMS AND HATCHERY

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CHATSWORTH, ILLINOIS

30,000 Baby Chicks, 30,000

Bred-to-Lay S. C. W. Leghorns. Best strains money can buy, \$12 per hundred. Now booking orders. Farmers or Broiler chicks—strong and healthy, \$8.25 per hundred. Circular FREE. Bungalow Poultry Farm, C. H. Chandler, Monmouth Jet., N. J.



Notes of the Greater Chicago Show.

By EARL WHITNEY.

An exhibition that has placed the Chicago Poultry Breeders' Association among the foremost poultry show organizations of the country. The January, 1916, show has won the right to be classed as one of the major poultry shows of the Nation.

The Barred Rock classes will go down in history. Four hundred sixty-six birds in all. To Judge Newton Cosh, of Vine-land, N. J., belongs the fame of judging the entire entry, and that, too, to the complete satisfaction of every exhibitor in the Bar d Rock classes, many of those who were not placed being warmest in their approval of his work. Judge Cosh is of the opinion that the Chicago Show produced the most hotly contested class of pullets ever shown anywhere, and says that many exceptional fowls had to be left out in all the classes, despite the fact that eight prizes were awarded in each class, birds that ordinarily would win.

The western Barred Rock Breeders want to see more of Newton Cosh in the western shows.

Dr. Clark is still marveling over the fact that Malays were among the birds shown. The Doctor believes this is the first time in the recollection of the oldest inhabitants that "Malays" have appeared in Chicago.

The Red Comb News, a newspaper published daily during the show by the Edwards & Loomis Company, proved one of the most interesting features of the exhibition. The Metropolitan dailies would do well were they permitted to "kidnap" the able Editor of this publication. There are a few copies of the earlier issues on hand which may be secured gratis by addressing the Edwards & Loomis Company, Chicago.

Particular mention should be made of the concessionists. In practically every booth space, money, time nor effort had not been spared in decorating the booth attractively. How different from the poultry shows of a few years ago. In no one feature have the shows of today made such marked improvement, and the Chicago show in this respect especially may well be used as a criterion.

It was stated by the pet stock department that this was the largest pet stock exhibition ever caged.

The spirit of co-operation shown among the members of the Chicago Poultry Breeders' Association is of the quality that assures success.

PILLING

Easy to use



CAPON TOOLS

MORE THAN DOUBLE YOUR COCKEREL PROFITS

Capons grow twice as large on the same amount of feed and bring twice the price per pound.

Capons bring 30c per lb. Roosters 15c

Complete set of reliable, practical, easy-to-use Capon Tools \$2.50—full, illustrated instructions included. Parcel Post prepaid.

G. P. PILLING & SON CO. Phila., Pa.
Send for FREE Capon Book

CORRECTIONS.

Owing to the unusual rush during the show season, mistakes are sometimes made. We wish to make the following corrections in regard to foot notes, etc., that appeared in our January number:

The Buff Leghorn male appearing on page 121 labeled cockerel, should have read 1st cockerel.

In Mr. Collier's report of the World's Fair Show, San Francisco, Cal., he failed to give the address of S. N. Tremper, who won 1st Barred Rock pullet. We are glad to say, for the benefit of our readers, that Mr. Tremper is located at Sandwich, Ill.

Would say in regard to the picture of the Buff Leghorn cock on page 80, January issue, labeled unretouched, that the background was somewhat retouched, but no retouching or alterations in regard to the shape or color of the bird were made.

We wish to state at this time that whenever there are scratches in the negative, which sometimes happen in developing, and erasing of these do not alter the type or color of the bird, our label of unretouched photograph shall be the absolute guarantee that no alterations have been made.

In the recent write-up of the Quincy, Ill., show held November, 1915, we neglected to mention the fine win made by Edmond J. Harbin, Riverside, Ill., in S. C. White Orpingtons. Mr. Harbin won 1 cock, 3 hen, 4 cockerel, 2 pen. Would say that these birds showed fine type and color, being true Orpingtons in every way.

In our January issue it was stated in error, that R. A. Chiles won 5th S. C. Buff Orpington pullet at the World's Fair. Mr. W. J. Steward, Los Angeles, Cal., won 5th pullet.

In the list of awards of the Chicago Coliseum published in our January issue, thru no fault of ours, the following winning was omitted: C. Sparks, Berrien Springs, Mich., 5th cock, Golden Campines.

We also wish to state that another error, fault not ours, appeared in the World's Fair 'Frisco winnings, in Buff Plymouth Rock class, this should be, first cockerel, W. H. Kent & Son, 515 Linden St., Cadillac, Mich.

On page 9 of our January issue we desire to call your attention to the advertisement of The Martling Hennyery, Ridgefield, N. J. You will note in their winnings at 'Frisco First Prize and Second Display. This was an error on our part and we hasten to correct same—it should read First Prize and First Display.

Our attention is called to an error appearing in catalog of Palace, N. Y., Show, in the Columbian Wyandotte class. First pullet is credited to Wilburtha Poultry Farm, and it should be Sunnybrook Farm, Eatontown, N. J.

In marked catalog of Pittsburgh Show in pen awards of Buttercups, winner of first old pen should be D. J. White, 1222 Patton St., Wilkensburg, Pa.

Eggs for Hatching

Anchorage Farm Stock

Bred-to-Lay Bred-to-Pay

All good quality, large-sized, healthy, vigorous, mature breeding birds. All open-air housed. Certain to yield strong, sturdy chicks. Big values at a price you can afford to pay.

S. C. White Leghorns

Ours combine the best American and English blood lines and are mated to yield best results in beauty and usefulness. Good large, sound, clean WHITE birds. Heavy layers of large white eggs. Certain to please you and sure to fill the egg basket.

White Plymouth Rocks

Big healthy, vigorous birds of the LAY AND PAY kind. Big producers of fine brown eggs. New Jersey customer won two firsts and one special with three entries at a local show with birds hatched from Anchorage eggs.

HATCHING EGGS From Either of Above Varieties,
\$2.00 per fifteen \$5.00 per fifty \$9.00 per hundred

White Faverolles

Strong, healthy, vigorous and well bred. Only a limited number of settings to be sold. Price of eggs, \$5.00 per fifteen; \$10.00 per thirty.

Order NOW from this ad. We have no circular or catalog, which is one reason we can afford to make the price so low for quality hatching eggs. Send cash with your order and get it in early to insure shipment on date desired.

THE ANCHORAGE FARM

DR. P. T. WOODS, Propr.

Lock Box 4

SILVER LAKE, PLYMOUTH CO., MASS.

Hawkins' Barred Rocks

The Recognized Champions of America. Winners at the Greatest Shows.

Boston, New York, Chicago, World's Fair, San Francisco. The kind you will buy, when you want the best. By careful line breeding over a period of over 30 years, I have produced a strain of Barred Plymouth Rocks that has all the desirable qualities any fancier could wish for. My winnings at the greatest shows in America prove that they have the type and color that is correct. By careful selection this strain has developed utility features possessed by no other flock of Barred Rocks in America.

At Boston, 1915, in competition with the leading Eastern breeders in the 1st exhibit of Barred Rocks ever seen in Boston, they won 1st and 4th cocks, 1st and 2nd hens, 1st cockerel, 1st cockerel-bred hen and 1st pen, 1st and 3rd pullet-bred cocks, specials for best display, champion male, 1st colored male and female.

At the World's Fair, San Francisco, 1915, I entered a cock and hen and won 1st hen, 2nd cock, after shipping 3,500 miles.

At Chicago, I made a clean sweep two years in succession, competing with 654 birds, the "Aristocrats" of the West, including best display, champion male and female.

At New York, for 32 years they have won more prizes than any other strain. An entire flock of 21 pullets of this strain averaged 207 eggs in one year, again proving the superiority of my breeding method.

EGGS FOR HATCHING

From the World's Best Matings. 1 setting, \$10.00; 3 settings, \$25.00. Why not get the best. I guarantee satisfaction; write for my catalog of the Champions. It's free.

CHOICE STOCK FOR SALE

Show birds that will win in any company, and high-class breeders that will improve your flock wonderfully. When you say "Hawkins," people know you mean quality.

A. C. HAWKINS - Lock Box 25 - LANCASTER, MASS.



Official Authentic **WORLD'S RECORD, 1675 EGGS**—Six Hens—One Year

Average, 279 per hen, at the Bendigo, Australian Government Contest. Direct importation. Only ONE world's record. Investigate. Also Padman's famous Australian 286-egg strain. For particulars write the **White Ranch, at South Haven, Mich.**

Wheeler's White Wyandottes and R. C. White Leghorns

1000 Breeders for Sale; Young and Old

Extra large, snappy, vigorous birds, with world of color and type. Trap-nested and bred for heavy egg production.

Wyandottes, bred from America's best strains. Leghorns sired by first prize cockerel at Madison Square Garden and Boston winners. State your wants.

Satisfaction guaranteed. Prices reasonable.

ALBERT V. WHEELER

CARLINVILLE, ILL.

MOELLER'S S. C. WH. LEGHORNS

WIN AGAIN AT QUINCY 1915

where the largest and best class of Leghorns ever assembled in the Mid-West. They won as follows: 1st and 3rd cockerel; 1st, 2nd and 4th pullet; best shaped male; 2nd pen; best colored male, and gold special for best display. Have a few grand cockerels and pullets for sale. Eggs for hatching, and day-old chicks at reasonable prices. Write me your wants.

C. W. MOELLER - Box 278 - QUINCY, ILLINOIS

Powers' White Wyandottes

CHICAGO WINNERS

Our birds have been winners at both Chicago shows the past seasons. Grand young stock for sale—the real Wyandotte type. Extra fine winter layers. Write today. Prices reasonable.

J. H. POWERS Poultry Yards: 79th and Bennett Ave. Office: 1411 E. 47th St., Chicago, Ill.

Woodcrest Partridge Wyandottes

LINE-BRED FOR STAMINA AND PERFECTION

A thousand youngsters bearing the blood of *Madison Square Garden Champions* for you. My 1915 season begins with New England Fair: Cocks 1-2; Hens 1-2; Cockerels 1-2; Pullets 1-2. All classes of stock at reasonable prices. Buy early. Mention American Poultry Journal.

CHAS. H. WOOD

MUTUAL BUILDING

WORCESTER, MASSACHUSETTS

GENSCH'S SINGLE COMB WHITE ORPINGTONS

THE BIG WINTER LAYERS

Won at Chicago Coliseum Show, December 10-15, 1915. 1st old pen, 2d and 7th Cockerel, 3d Cock, 6th Hen, 3d and 7th Pullet. Stock for sale. Eggs in season.

F. M. GENSCH

Box G

OMRO, WIS.

A GREAT WIN ON BUFF AND BLUE ORPINGTONS

At Holyoke, Mass., every Buff entered won a ribbon. I won the 5 First's and 2nd Cock and hen at Springfield, Mass., in a class of 99 Buff's, 1-4 Cocks; 1-2-3, hen; 2 cockerel; 1 pen special for color and shape males; special for best shape females; best pen in show all classes competing. At same show on Blues, ten birds entered, won 1-3 hen and pullet, 2 pen.

Some of these birds and many others as good, are for sale. Write your wants, my prices are reasonable. Now booking egg orders. HENRIETTA E. HOOKER, South Hadley, Mass.



Faha's Silver Wyandottes

"THE ARISTOCRATS"—Wonderful type, superb lacing, constitutional vigor and persistent laying, are the cardinal points that have made "The Aristocrats" famous. Eventually, if looking for the best you will buy "The Aristocrats." Why not now? Let us know your wants. Catalog free.

FRANK FAHA, Jr. - Box 730 - Dyersville, Iowa

Schultz's Buff Wyandottes

My latest
win at the
Chicago

Coliseum Show, December, 1915, stands unequalled. In the strongest and best class of Buffs ever shown, I won 1-5 Cocks; 1-2-3 Hens; 3 Cockerels; 1-5 Pullets; 1 Old Pen. 13 placed—15 shown. Stock and eggs.

W. F. SCHULTZ, Box 97

Cuyahoga, Falls, Ohio

LAYBILT — S. C. W. — LEGHORNS

"Made-in-America"

The Egg type that Laying Contests have proven and the type that Commercial Egg Production demands. Selected Hatching Eggs, \$6.00 per 100. 90% fertility guaranteed. Strong Day-old Chicks, \$15.00 per 100—delivered alive and lively. Discount on quantities. You should order early. Yearling hens \$1.00 each; Pullets \$1.50 each.

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EVERFRESH EGG FARM

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IONIA, MICHIGAN

TO OUR READERS.

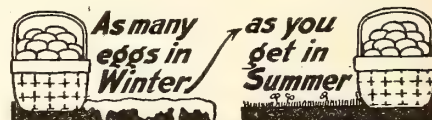
Again We Lead.

This issue comes to you with three special show supplements, namely: Madison Square Garden show, Boston, Mass., show and Greater Chicago show. This is a special feature that the American Poultry Journal inaugurated, following their rule of "leading and let the others follow." We sincerely trust that this issue will meet with your approval, and if it does, tell us so, for like everyone else a little boost spurs us on to greater efforts. These supplements, as you will note, are "chuck full" of unretouched photographs of the prize winning birds at these different shows and you, friend reader, are the main reason for us publishing them. You and our other subscribers are scattered in every country on the globe as far away as South Africa, you read and hear about these different shows and many of you, no doubt, have often expressed a desire to attend them, but time, circumstances, etc., keep you away.

You are interested in them—you cannot attend, we cannot bring the show to you, but we have done the next best thing. We have brought you real true to life pictures of the prize winners, unretouched photographs of these birds, just as the camera snapped them. In showing you these birds we have in mind that some time or other you will want to exhibit at these shows. As you have never attended them, you don't know just what type of birds capture the ribbons and you are at a loss as to just what type you are to breed for, if you want to win at the big shows.

These unretouched photographs solve the problem, they tell you more in one glance than you could learn by reading a dozen articles. Study them carefully, find wherever your birds are lacking, then go to work and breed accordingly.

Our artist, L. A. (Louie) Stahmer, whose perseverance and wonderful ability has made it possible for you to look upon exact reproductions of these birds, deserves a great amount of credit, and we leave it to you, friend reader. Which do you prefer, the pictures showing the wonderful skill of Mr. Stahmer, or those showing the painting ability of some of the other artists? Bear in mind, anyone can have a scrub retouched so that it will look like a prize winner, so in buying stock insist on being shown an unretouched picture of some of their birds. —P. K. W.



Hens lay winter eggs freely if fed chopped Green Bone. Follow the Experts for Success.

Stearns GREEN BONE CUTTER

Just the right food elements and cut fine enough for the smallest chicks. Fastest, easiest running cutter on the market. Hand or power machines for flocks of all sizes, \$6.00 up. Send for FREE Book—"How to Make Poultry Pay"—tells just how the Experts get big winter egg results. Save money and send for the book now.

E. C. STEARNS & CO., Syracuse, N. Y.

AWARDS AT CENTERVILLE, IOWA.

Appanoosa County Poultry Association.

BARRED ROCKS—Mr. and Mrs. C. E. Brokaw, Mystic, 1 cock, 1-5 hen, 3-5 ckl, 1 pen; Mrs. C. N. Davis, Mystic, 3 cock, 3-4 hen, 4 pen; Mrs. F. D. Brewer, Millerton, Ia., 2 hen, 4 pit; E. Fraker, Downing, Mo., 2 ckl, pit, 3 pen; N. H. Mather, 4 ckl; John Bruhn, What Cheer, Ia., 1-3 pit, 2 pen; W. M. Lynch, Moulton, 5 pit.

BUFF PLYMOUTH ROCKS—E. E. Black, Corydon, Ia., 1 cock, 1-2-3 hen, 2-4 ckl, 1-2-3-4 pit, 1-2 pen; Mr. and Mrs. C. E. Brokaw, 5 hen, pit, 1 ckl, 3 pen; Henning Carlson, 3-5 ckl.

WHITE PLYMOUTH ROCKS—C. W. Kindig, 1-2-3 cock, 2-3-5 hen, 2-3-4 ckl, 1-3-4-5 pit, 1-3-4 pen; Emma Steffy, 1-4 hen, 2 ckl, pit, pen.

PARTRIDGE ROCKS—H. O. Wilkes, Centerville, Ia., 1 cock, 1-2-4 hen; Rev. H. C. Duckett, Bloomfield, Ia., 3 hen, 1-4 ckl, 2 pit; W. H. Lane, 2-4-5 hen, 1-3-4 pit.

WHITE WYANDOTTES—Reed & Reed, Breckonridge, Mo., 1 cock, pen, 1-4 hen, 1-2-3 ckl, 2-4-5 pit; Harry J. Blair, Van Wert, Ia., 2 cock, pen, 1-3 pit; Mrs. A. L. Stuckey, Udell, Ia., 3 cock, 2 hen; S. A. Kelly, Livonia, Mo., 3 hen, 4 ckl; M. E. Terry, 5 hen.

S. C. RHODE ISLAND REDS—Chas. H. Orman, Ottumwa, Ia., 1-3 cock, 2-3-4 hen, 2 ckl, 2-3-5 pit, 2-5 pen; Frank Chalupa, East Pleasant Plain, Ia., 2 cock, 1 hen, pit, pen, 3-5 ckl; W. B. Russell, Numa, Ia., 4 ckl, 3 pen; B. F. Benson, Winfield, Ia., 1 ckl, 4 pit, pen.

R. C. RHODE ISLAND REDS—H. O. Wilkes, 2 cock, 2-3 hen, 4-5 ckl; S. Martin, Batavia, Ia., 1 cock, hen, pen, 1-2-3 ckl, 1-2-3-5 pit; W. C. Lawton, Mystic, Ia., 4 cock; John L. Jones, Queen City, Mo., 5 cock; Mrs. A. L. Stuckey, 4-5 hen; Bradley Poultry Farm, Mystic, Ia., 4 ckl.

LIGHT BRAHMAS—N. E. Murdy, Moravia, Ia., 1-2-4 hen, 1-2-5 ckl, 1 pen.

S. C. WHITE LEGHORNS—John L. Sexton, Albia, Ia., 1 cock, 1 ckl, 1-2-3 hen, 3 pit, 2 pen; Mrs. H. W. Lemberger, Burlington, Ia., 2 cock, 2-3 ckl, 1-2-4 pit, 1 pen; K. I. Miller, Lancaster, Mo., 4 hen, ckl, 5 pit, 3 pen; J. L. Stark, Russell, Ia., 3 cock, 5 hen, pen; Edward Moon, Mystic, Ia., 5 ckl.

R. C. BLACK MINORCAS—R. S. Wynes, Albia, Ia., 4 hen.

SILVER LACED WYANDOTTES—M. E. Followill, Numa, Ia., 1 ckl, 1-2-3 pit.

S. C. WHITE ORPINGTONS—R. B. Murphy, Shenandoah, Ia., 1 cock, pen, 1-2-3-5 pit, 4 hen; J. H. Bickert, Albia, Ia., 2 cock, 4 pit; Louis Johnson, Centerville, Ia., 5 cock, 3 ckl; R. S. Wynes, 3 cock, 1-2-3 hen, 2 pen; Mrs. F. D. Brewer, 5 hen.

S. C. BLACK ORPINGTONS—Frank Mitchell, Centerville, Ia., 1-2-3 ckl, 1-2-3-4 pit, 5 hen, 1 pen; R. S. Wynes, 2 cock, pen, 1-2-3-4 hen.

S. C. BUFF ORPINGTONS—D. B. Coop, Peru, Ia., 1-2 ckl, 1-2-3-4-5 pit, 1 pen.

RED SUSSEX—M. E. Terry, 2 cock, 3 ckl, 4-5 pit, 4 pen.

SPECKLED SUSSEX—Dr. J. A. Dillon, Centerville, Ia., 5 ckl, 3-5 pit.

SILVER CAMPINES—H. O. Wilkes, 1 ckl, pen, 1-2-3-4-5 pit.

BLACK LANGSHANS—Bertt Randall, Mt. Zion, Ia., 1 cock, ckl, pen, 1-2 hen, 1-3 pit; K. I. Miller, Lancaster, Mo., 3-4-5 hen, 2 ckl, pen, 2-4-5 pit.

PARTRIDGE WYANDOTTES—S. A. Smith, Albia, Ia., 1 cock, hen, ckl, pit.

DARK CORNISH—Greenall & Young, Mystic, Ia., 1-2 hen, 1 ckl, 2 pit.

WHITE CORNISH—Greenall & Young, 1-3 hen, 5 ckl, 3-4-5 pit, 3 pen.

SILVER GRAY DORKINGS—Gray & Bohy, Hocking, Ia., 1 cock, 5 ckl, 1-5 pit.

MOTTLED ANCONAS—Dr. Ash, Centerville, Ia., 1 ckl, 1-2-5 pit.

SILVER SPANGLED HAMBURGS—S. A. Kelly, Livonia, Mo., 1 cock, 1-3-5 hen.

WHITE RUNNER DUCKS—Mrs. F. D. Brewer, 1 drake, 1-2-3 hen.

BUFF COCHIN BANTAMS—J. A. Abbot, 1 ckl, pit; Louis Johnson, 2 ckl, pit.

Water Even Temperature All Year Round

Ideal Sanitary Fountain for fowls is built like a fireless cooker. Keeps water cool in summer, warm in winter. Prevents disease. Water cannot be polluted. Saves work. Increases egg yield. Low price. Inquire at your dealer's. Write for circular.

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ADJUSTABLE CLINCH POULTRY BANDS

None better made. 25-20c, 50-35c, 100-65c, 200-110c, 500-225c. Sample free. Made by

FRANK CROSS Box 506 MONTAGUE, MASS.



PEARL GRIT
T.O.M.CO.
TRADE MARK

Pearl Grit

Makes Hens Lay

THEY can't help it. It's full of egg-making ingredients. It furnishes the hen just what she needs—lime for the shell—sulphur and carbohydrates for the egg itself. Makes them lay better in winter as well as summer. It's the best and most economical grit money can buy.

Pearl Grit

Not only makes hens lay—it also keeps them in health. Pearl Grit serves the same purpose in a chicken's gizzard that teeth do in the mouth of a human being. It grinds up the food—aids digestion—makes the bird strong, vigorous, healthy and supplies color for most beautiful plumage.

Pearl Grit is especially valuable to hens during the molting season. It furnishes feather-making material as well as strength to lay and molt at the same time. No shells, lime, magnesium, etc., are necessary when feeding Pearl Grit. It serves a double purpose. Saves time, labor and expense.

We have issued a valuable booklet for poultry raisers. It tells how to cure many of the most common poultry diseases with the most common remedies. Also tells why Pearl Grit is such a practical food. Send for a copy today. A postal will do.

THE OHIO MARBLE CO., 10 S. Cleveland Street Piqua, Ohio



THE "COLLINS" IS THE BEST OATS SPROUTER

AND IT'S THE CHEAPEST \$3

You readers of the Am. Poultry Journal know as well as I do that it's essential to feed green food to

Make Your Hens HEAVY Winter Layers

You also know that in the form of sprouted oats you can furnish your hens what they need in the way of fresh, tasty, sweet and wholesome green food, and protein, at Less Cost than in any other form.

The only point in which you are interested is in knowing which is the most practical, sensible, workable, convenient and satisfactory sprouter. It's the "COLLINS"—made in units, eight individual pans of galvanized steel, 11x15 inches, a pan for each day of the week, and a drip pan. These pans fit ingeniously one on top of the other, doing away with the usual frame or stand. The pans are properly perforated to furnish exact amount of drainage to insure sprouting of practically every fertile oat, and to eliminate souring and rotting, and give a more uniform, prolific growth.

For \$3.00 I deliver The Collins Sprouter anywhere east of the Mississippi River, Express or Parcel Post charges paid by me. West of the Mississippi, \$3.50.

Try it ten days, and if it isn't satisfactory ship it back, and I will refund your money. Illustrated descriptive booklet free for writing.

We could use a few good agents. Write for territory.

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SPECKLED SUSSEX

The Coming Show Fowl of America

Great winter layers. The fastest growing fowl in existence, having the largest per cent of the finest flavored flesh to offal of any breed, making them the King of utility fowls.

At Quincy last November I won three blue ribbons on three entries—cockerel, pullet and pen.

I have two pens of this great variety from which I can spare a few eggs at \$5.00 per 15.

Pen No. 1, headed by 1st pen cockerel at Quincy and a son of last season's Crystal Palace champion bird.

Pen No. 2, headed by a son of last season's Buffalo winner.

These two males are mated to my Quincy winning females and daughters of Crystal Palace, Madison Square and Buffalo winners. Free mating list ready soon.

CHAS. A. SIMMONDS, SPECIALTY BREEDER, CAMP POINT, ILL.

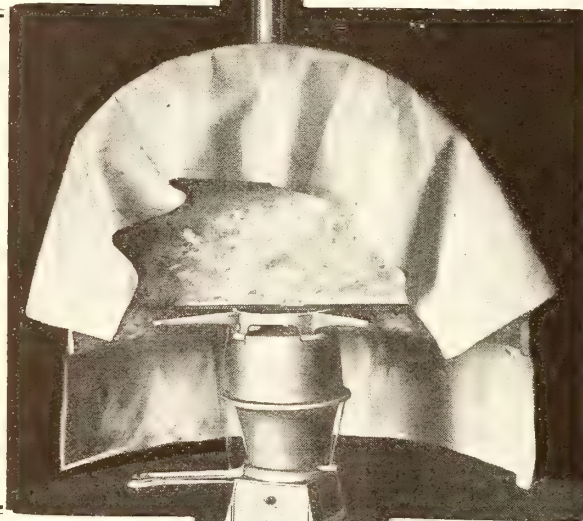
The Dandy Coal Burning Colony Brooder

The one brooder selling at a very low price that will do all that the higher priced brooders will do.

It isn't enough to hatch your eggs—the big thing—the thing that really counts—is to save all your chicks. And you can do it with the Dandy.

Burns Coal or Gas.

Coal Once in 24 Hours.
Think of the Labor Saved.



Built of Cast Iron
to last a lifetime.

Increased Profits.
No Lost Chicks.

Because we make no wild statements telling why the Dandy Brooder is better than others, don't think it is a cheap, flimsy brooder. It is far from that. We own a large commercial egg farm where all our models are tested. We use the same brooder we are offering you.

Our factory is equipped with the best up-to-date machinery run by water power. Skilled labor is cheap in this locality and our overhead expenses are small. The large saving over other manufacturers' costs goes into the construction of the brooder. Large volume of sales—small profit per sale is our idea.

\$15 Means Chick Insurance

Surely you will not let this amount stand between you and success. Write us for complete literature. We want hustling agents.

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FOREST HILL POULTRY YARDS

Quality White Plymouth Rocks

Have just won at the Kentucky and Ohio State Shows more premiums than the fourteen competitors combined, including A. P. A. medal for best cockerel in American class, at Dayton in the best class of White P. Rocks ever shown in the Middle West they won 1st and 5th cock, 1st hen, 1st cockerel, 2nd and 5th pullets, 2nd and 5th pens, 10 entries; also best display, best bird in the class. This places our Quality White P. Rocks at the top in this section of the country. We still have cocks, cockerels, hens and pullets, mated pens of this same stock for sale at prices that you can afford to pay. We can satisfy you. Try us and see. EGGS—Fertile Eggs, 100% guaranteed, that is what you will get. Book your order now. Mating list free. Address

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DEER'S QUALITY

White Plymouth Rocks

They proved to be great winners at Louisville, Ky. They won for the best display in American class; also for the best display in the White Rock, and seven other specials. They won 4 Cock, 1-5 hen, 2-4 Cockerels, 2-3 Pullets, 3 old pen, 1 young pen. Write for a mating list.

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FRANKLIN, IND.

AWARDS AT OSHKOSH, WIS., SHOW.

L. C. Hanley, Secretary.

S. C. WHITE LEGHOPNS—G. W. Schmitt, Sheboygan, 1-2 cock, 1-2-3-4 hen, 2-3-4 ckl, 1-2-3-4 plt, 2 pen; Mrs. H. C. Rogers, Oshkosh, 3 cock, 5 hen, 5 ckl, 3 pen; H. E. Horn, Oshkosh, 4 cock, 4 pen; L. C. Hanley, Oshkosh, 1 ckl, 5 plt, 1 pen.

R. C. WHITE LEGHORNS—Mrs. H. S. Rogers, all awards.

S. C. BROWN LEGHORNS—Henry A. Schwinn, West Bend, all cocks, 1-2-3-4 hen, 1 ckl, 1-2-3-4 plt; Elward Atchinson, Oshkosh, 2-3 ckl; William Harold, Sheboygan, all ckl-bred pens.

R. C. BUFF LEGHORNS—A. Schuttler, Oshkosh, all awards.

LIGHT BRAHMAS—A. Damuth, Oshkosh, all awards.

WHITE PLYMOUTH ROCKS—Mrs. H. C. Rogers, 1-3-4 cock, 3 pen; J. F. Reimer, Fairwater, Wis., 2-5 cock, 1-3-4 hen, 1-3 ckl, 1-2-3-4 plt, 1 pen; G. W. Schmitt, 2 hen, 2-4-5 ckl, 2 pen; G. R. Morgan, Oshkosh, 5 hen, 5 plt.

BARRED PLYMOUTH ROCKS—Mrs. H. C. Rogers, 1 cock, 1 ckl-bred cock, 3-4 hen, 2-3 plt, 1 pen; Edgar A. Krug, Knowles, Wis., 2 cock, 2 ckl-bred cock; E. E. Beals & Co., Oshkosh, 3 cock, 2 ckl, 1-2 plt, 1 pen, 3 ckl-bred cock, 2-5 hen, 4-5 plt, 2 pen, 1 plt-mated ckl, 1 plt-mated hen, 1-2 plt-mated plt, 1 plt-mated pen; A. Damuth, Oshkosh, 4 cock, 4 ckl-bred cock, 1 hen; C. L. Maxwell, Oshkosh, 5 cock, 1 ckl, 5 ckl-bred cock, 1 plt, 1 plt-mated cock.

BLACK LANGSHANS—S. Stransky, Chilton, 1-2 cock, 1-2 ckl, 1-2-3 hen, 1-2-3 plt, 1 pen; Leo. Gartman, Oshkosh, 3 cock, 3-5 ckl, 4-5 plt, 2 pen; Geo. Hildebrand, Oshkosh, 4 ckl, 4-5 hen.

WHITE WYANDOTTES—A. J. Shannon, Appleton, 1 cock, 4 ckl, 3 plt; W. T. Magnussen, Fond du Lac, 2 cock, 1 ckl, 1-2 plt, 1 pen; Albert March, Jr., Oshkosh, 2 ckl, 5 plt, 2 pen; Roy E. Reed, Ripon, 3 ckl, 4 plt; Edgar A. Krug, 5 ckl.

PARTRIDGE WYANDOTTES—Herbert Bloedel, Markesan, all awards.

S. C. WHITE MINORCAS—F. W. Schmidt, Princeton, all awards.

R. C. WHITE MINORCAS—F. W. Schmidt, all awards.

S. C. BLACK MINORCAS—H. H. Lachelt, Markesan, 1 cock, 3-4 ckl, 1-2-3 hen, 2 pen; Lakeview Poultry Yards, Oshkosh, 2 cock, 1 ckl, 4 hen, 2-3 plt, 1 pen; Edgar A. Krug, 3 cock, 5 hen; Kibler & Hoover, Omro, 4 cock, 2-5 ckl, 1-4-5 plt, 3 pen.

S. C. RHODE ISLAND REDS—James Kane, Oshkosh, 1 cock, 1-2 hen, 1-2-3-4 plt; Arthur Krause, Oshkosh, 2 cock; J. H. Marshall, Juneau, Wis., 1-2 ckl; Garvin Oats, Fond du Lac, 3 ckl.

R. C. RHODE ISLAND REDS—George L. Loos, Appleton, all awards.

HOUDANS—Sherwood & Buckstaff, Oshkosh, all awards.

S. C. ANCONAS—Edward J. R. Meyer, Oshkosh, all awards.

S. C. BUFF ORPINGTONS—Grant McClellan, Poyssippi, all awards.

GOLDEN CAMPINES—Dr. E. Rosenthal, Omro, all awards.

S. C. WHITE ORPINGTONS—Dr. J. F. Schneider, Oshkosh, 1 cock, 2 ckl, 4 plt; Clarence B. Gross, Hancock, Mich., 2 cock, 1-2-3 hen; Eli Enerson, Oshkosh, 3 cock, 3-4 ckl, 4 hen, 1-2-5 plt, 1 pen; Dr. E. Rosenthal, 1 ckl, 5 hen, 3 plt.

SPECKLED SUSSEX—F. M. Gensch, all awards.

WHITE CRESTED BLACK POLISH—James F. Irvine, Oshkosh, all awards.

WILD MALLARD DUCKS—(old birds) Orville C. Horn, Oshkosh, all awards.

WILD MALLARD DUCKS—(young birds) Mrs. Fred Geiger, Oshkosh, all awards.

BLACK MALLARDS—Mrs. Fred Geiger, all awards.

GRAY CALL DUCKS—Col. S. W. Hollister, Oshkosh, all awards.

PEKIN DUCKS—William Cowap, Oshkosh, all awards.

WHITE HOLLAND TURKEYS—Stephen C. Radford, Oshkosh, all awards.

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More Eggs Per Hen

Summer green food makes hens lay more eggs. You get more eggs per hen all winter by dissolving SUCCULENTA TABLETS in their drinking water. Better and cheaper than green food. No bother. 100 large tablets by mail 50c.

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ILLINOIS STATE SHOW.

About 1000 Birds on Exhibition—
Smaller Than Usual, but of
Excellent Quality.

By F. D. ROGERS.

FOR the first time in several years the Illinois State Show was held away from the capital city and the show this year held at De Kalb will go down in history as a very successful exhibition. The entries were somewhat smaller than usual. However, the quality shown was above the average. The men in charge of this year's show were an enthusiastic lot of fanciers and experienced show men. Mr. McCord and his assistants should have the hearty support and co-operation of all fanciers of Illinois and the Middle West.

Lectures were given several evenings



One of the pullet winners in that strong Barred Rock class, Boston, 1916. Note the snappy barring. W. W. Carpenter, East Providence, R. I.

during the week. Prominent among the speakers being Prof. Phillips of Purdue University, and R. C. Lowry, Mgr., Yesterday Egg Farms, Pacific, Mo., one of the best known and most successful poultrymen of this country, being a graduate of Cornell University. The lectures given by these men were indeed instructive and appreciated by the many present.

Among the prominent and interesting features of the show were the Barred Plymouth Rocks shown on display by S. N. Tremper, Sandwich, Ill. In a large roomy cage near the entrance was to be found his wonderful pullet, winning first

"What's A Capon and Why"

76 Page 6 x 9 inch BOOK that explains everything you will ever want to know about CAPONS. 50 pictures from life that show each step in the operation. List of Capon buyers addresses. Tells how to prevent "Slips," where to get the best and cheapest capon tools. Copyrighted new and revised 1915, 4th edition. Regular 50 cent copy, prepaid to your address for a DIME in coin or stamps.

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ITS RELATION TO POULTRY AND EGG PRODUCTION

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It gives the interesting results of Capt. Ralph Allen's experiment in feeding Mustard to poultry, and other helpful information. It will introduce to you, without obligation.

French's Poultry Mustard

The Original Poultry Mustard in America

Used and endorsed by such prominent poultrymen as E. B. Thompson, Haldie Nicholson, C. F. Rankin, E. S. Aldrich, A. E. Martz and thousands of other satisfied customers. All testify as to its beneficial relation to an increased egg production, fertility, stamina and vitality, at a cost not to be considered with the results.

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Write for a booklet and give dealer's name if he can't supply you

THE R. T. FRENCH COMPANY, Dept. A, ROCHESTER, N. Y.

WINNERS

At Madison Square Garden

1st Cock 1st and 3d Pullet 2d Hen 1st Pen 1st, 3d and 4th Cockerel Best Display

This record is a splendid tribute to the vigor and quality of Monmouth S. C. Buff Leghorns, unapproached by any other strain.

This record means a lot to you as our customer. By securing Baby Chicks or Hatch-



ing Eggs from this unrivalled strain you are laying the foundation for a heavy-laying flock and success at the shows next season.

Baby Chicks

Healthy, bright-eyed little fellows from our famous strains. We ship promptly and guarantee their safe arrival.

MONMOUTH Buffs 85% fertility guaranteed after March 1st.
and S. C. W. Leghorns

Monmouth Leghorns are quick growers. They are large, strong, hardy and vigorous. The Pullets mature quickly and are excellent layers. The cockerels make ideal broilers. They are truly the "Twentieth Century Dual Purpose Fowl."

Send for Price Lists of Baby Chicks and Hatching Eggs. Write today.

Wm. Stanley Hill, Owner
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Monmouth Farms John Lockwood, Supt.
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Taylor's Wh. Wyandottes

and young from FARM RANGED BIRDS.

GEORGE TAYLOR

R. R. No. 11, Box 30

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URBANA, ILLINOIS.

We can select you winners or breeders, both old



RED SUSSEX
bred and owned by
GENSEMER BROS. CRESTON, OHIO.



SILVER CAMPINE
bred and owned by
GENSEMER BROS. CRESTON, OHIO.

The champion Red Sussex of America today is without any question the bird shown in the above picture. He was first at the Panama-Pacific Exposition and won easy in hot competition at Cleveland after traveling 7,000 miles. He was bred and owned by Gensemer Bros., Creston, Ohio.—L. A. S.

The Silver Campine cockerel in the above picture won first at San Francisco and again at Cleveland. The fine modern type and the snappy clear barring is very much in evidence. Gensemer Bros. of Creston, Ohio, have been winning consistently with this variety for years.

this season at the Illinois State Fair, also at the Panama-Pacific Exposition, San Francisco. Mr. Tremper also had on display a wonderful pen that attracted much attention. The Barred Plymouth Rocks were the largest class of the exhibition. It would remind one of the Chicago Show to look down Barred Rock alley.

Prominent among the winners were: D. F. Palmer & Son, Yorkville, Ill., Mrs. Alex Hamilton, Petersburg, Ill., Laufer Bros., Millbrook, Ill., and the well known veteran, Mr. Geo. Walker of Polo, Ill. Palmer & Son made a wonderful win on birds that well deserved the honors. (Note the awards in this issue.) Mrs. Alex Hamilton's first prize cock bird

and champion was a real wonder. The first prize cockerel owned by Mr. Walker was outstanding and well placed. C. E. Robson of Sandwich, Ill., showed birds of good type and color.

White Wyandottes were shown in good numbers. Geo. Sanford's (of Wheaton, Ill.) hat was in the ring, winning first on cockerel, a bird that was one of the real



A Wonderful Season's Record

upholds the reputation of our quality birds for splendid achievements at the shows, and in hundreds of poultry yards throughout the country.

AT SYRACUSE

Cock, 1-2-3. Pullets, 1-2.
Cockerels, 1-2-4. Hens, 2-4.
Old Pen, 1. Young Pen, 1.
Special for Best Display in S. C. B. O. English class.

AT MADISON SQUARE GARDEN

Cock, 1-5. Cockerel, 1. Pen, 2.

You should have some of the splendid

AT HAGERSTOWN

Cocks, 1-2-3. Pullets, 1-2-4.
Cockerels, 1-2-3-5. Hens, 2-4.
Old Pen, 1. Young Pen, 1.
Special for Best S. C. B. Orpingtons.

AT BUFFALO

Cocks, 1-3. Pullets, 2-3.
Cockerels, 1-2-4. Hens, 1-2.
Old Pen, 1. Young Pen, 1.
Special for Best Display.
Special for best Cock, Hen, Cockerel, Pullet. Special for best Pen in Show. Special for largest Display.

Sunswick S. C. Buff Orpingtons

Our offerings right now are unusual. 60 splendid cockerels for the breeding yard and show-room, \$5.00 up—great bargains! Pens and trios, mated for best results, \$15 up. Also hatching eggs from matings headed by our great winners, \$3, \$5, \$10 and \$20 per setting of 15 eggs. In hundred lots \$15. Chicks, from Colony matings, 50 cents each. Sunswick's Stock, Eggs and Chicks are from the greatest and strongest blood lines in the world. Write TODAY for mating list and catalog.

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Rufus Delafield, Owner

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Nye's Famous S. C. White Leghorns and Light Brahmas

Have for years bred the best to be found in these two varieties, hundreds of young stock to offer all farm raised, and fully matured.

SPECIAL SALE OF SINGLE COMB WHITE LEGHORN COCKERELS. Grand breeders from Every Standpoint

BIG, STRONG, VIGOROUS birds that we guarantee will please you. Winners at Illinois State show, Bloomington, Champaign and Decatur. Special sale price of Cockerels, \$5 each; 6 for \$25, or 15 for \$50, while they last; also, Rouen Ducks for sale. Satisfaction guaranteed. Eggs in season. Write TODAY

C. C. NYE

Box A

HARRISTOWN, ILLINOIS

sensations of the show, showing great type and color throat. Mr. Skinner of Sandwich, Ill., made a most creditable showing in this class. Mr. John C. Jakes of De Kalb, Ill., made a nice win in White Wyandottes. Good classes were shown in S. C. Rhode Island Reds, and Geo. Schoenhard of Freeport, Ill., made a very fine showing and a most creditable win. Mr. Greenwood of Geneseo, Ill., and Mr. Knodle of De Kalb, Ill., were among the winners in this class.

The Black Langshans shown by Mrs. Carr of De Kalb, were exceptional specimens, among the best that has ever been my pleasure to handle.

Good classes of White Rocks were shown. Messrs. Tyler & Lauck of De Kalb, Ill., and Law of Sheridan, Ill., showed birds of good quality and were well among the winners.

In Sussex—honors were divided between Field Bros. of Sheridan, Ill., and Tarbox Bros., Yorkville, Ill.

In Silver Wyandottes, of course, the Tarbox boys were the big winners, with another string of birds at Madison Square Garden, New York, the same week. We have never known these boys to show where they did not succeed in capturing a goodly number of the honors.

Buff Orpingtons were well represented. Mr. Kaup of Glen Ellyn, Ill., showed birds of very fine type and color and was well among the winners.

Black Orpingtons were not a large class, however; the birds shown by Chas. Tucker of Sycamore, Ill., were indeed wonderful specimens and he well deserves special mention for showing birds of this quality. Lea Munger of De Kalb, Ill., captured most of the prizes in Buff Leghorns on well shown birds. Mr. Munger is well known among Buff Leghorn fanciers, his birds having won in seasons past at the Chicago Coliseum and other prominent shows. He also received the honors in the Buff Wyandotte classes.

Mr. J. S. Bales of Springfield, Ill., a prominent fancier and real worker in many state shows in the past, was a prominent winner in Rose Comb Minorcas and Indian Runner Ducks. Mr. Bale's Minorcas are known far and wide and his winnings at this show were very good indeed. H. J. Curly, Sheridan, Ill., made a creditable win in Columbian Plymouth Rocks.

The classes of the water fowls and Sussex were not large. However, Mrs.

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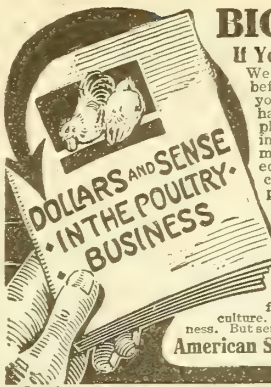
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232-J N. 3rd St. COLUMBUS, OHIO Adjustable

Sex Control

More pullets, more eggs, more meat, more money, from same feed, than any other fowls on earth. Our new strain All Pullet Producing Langshans. They make good, or we do.

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R. F. D. No. 3, Spokane, Wash.



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RANGE RAISED

Memphis Tri-State Show, 1914—356 in class, won 2, 3 Cock; 1, 2 Hen; 4 Cockerel; 1, 2, 3 Pullet; 3, 5 Pen; Best Display. Again in 1915, 215 in class, won more prizes than any other breeder in class, and Best Display.

Breeding Stock, \$1.50 and up. Eggs for Hatching, \$1.50, \$2.50 and \$5.00 for 15; \$8.00 for 100, reduction on larger quantities. Baby Chicks, February, \$16.00 for 100; March and April, \$15.00; May, \$14.00; June, \$12.00. A little BABY CHICK history—One customer got 600 chicks April 10, 1915. Raised 225 pullets. Egg yield in October, 30 per cent; in November, more than 40 per cent. Repeat order for 700 chicks to be shipped April 1, 1916.

Sixth Year. Largest Farm in State. Completely Equipped.

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Seventy-five Cockerels, fifty Pullets and twenty-five Hens for sale at prices that will surprise you—in fact, war time prices. Send \$5.00 for a Cockerel, \$3.00 for a Hen, or \$3.00 for a Pullet, and let me demonstrate the value I am giving. Sale List for the asking.

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BOSTON WINNERS

1916 matings contain, 1st and 6th pens and other New York Palace Show, December 1915, winners; Madison Garden and Boston winners. Splendid breeding stock for immediate shipment. Mating and egg list for the asking. 246-egg record at Storrs Contest.

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Trap-nest record of 265 eggs in one year. Every breeder has proven to be a record layer. Eggs and baby chicks for sale. Every female in four of my breeding pens laid over 200 eggs as a pullet. Prices reasonable, FREE booklet.

CARL J. JENSEN North Avenue Waukegan, Ill.

White Wyandotte Cockerels

Own sons of 1st Boston Cockerel, 1915, and 3rd young pen Cockerel, New York State Fair, 1914. Bred to such females as 1st and 2nd Boston Pullets, 1915, and 1st pen pullets, Gloucester 1914. I have 25 Cockerels for sale at prices ranging from \$5.00 to \$20.00. A few Pullets may be had from these matings, at \$5.00 each.

SHAW MCKEAN PRIDES CROSSING, MASS.



WHITE HOUDANS

A breed that combines beauty and utility to a higher degree than any other variety. As layers of large white eggs and excellent table quality they cannot be surpassed.

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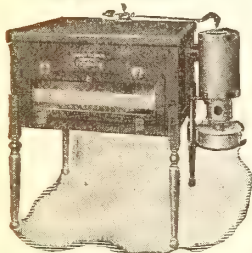
HANSEN Buttercups

Eggs from this mating \$2.00 per 15.

At the Coliseum Show, 1915, I won 1st Cock, 1-2 Hen, 4 Cockerel, color and shape special on Female, St. Paul 1 Cock, 1 Pullet, one Exhibition Pen, headed by 1st Chicago Cock, mated to 1st and 4th Chicago hen and Boston winners. Eggs, \$5.00 Per 15; one flock headed by 1st Philadelphia Cock, 1st St. Paul Cock and 4 Chicago Cockerels. DR. M. A. HANSEN, Osage, Iowa

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The closer you investigate, the longer you compare and scrutinize—the stronger will your conviction grow that Standard Model Incubators win on every single point. 100% Hatches three consecutive times is the record. Safest, most convenient and cheapest to operate. Compare values—then note our prices:



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Chestnut casing, the best and most durable possible. Outlasts others by years. Beautiful attractive finish. Safety lamp-rest and enclosure. Heater is gas-tight—heavy insulated walls. Hatches every fertile egg under all varying conditions and temperatures. Automatic, well balanced regulation—uniform circulation and ventilation—even temperature at all times.

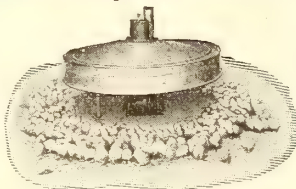
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120-egg is the only size we make, no other size is satisfactory. Hot water system alone does not solve moisture problem. Our design is perfect—ventilation, regulation and moisture correctly applied. Guaranteed.



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Highest heating power with less oil and less care than any other hover. All metal—fireproof—dependable under all conditions.

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First Prize Winners at Madison Square Garden, New York and Chicago Coliseum. A few choice show birds for sale. Also high class breeding stock and utility cockerels. It will pay you to get my strain. Satisfaction always.

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BOTH COMBS

Get in line for your winter show birds and breeders. 1000 head; better than usual at right and lowest prices. Satisfaction guaranteed. Mention A. P. J.

HAROLD TOMPKINS - Box A - CONCORD, MASS.

Alex Hamilton of Petersburg, Ill., had on exhibition some of her well known Bronze Turkeys. These birds shown at De Kalb were first prize winners at the Panama-Pacific Exposition, San Francisco, November, 1915.

The full list of awards is as follows:

BLUE ORPINGTONS—Spring Hill Farm, Harrisburg, Ill., 1 champion color and shape hen, 1 champion, shape and color ekl, 1 plt.
WHITE HOLLAND TURKEYS—A. H. Floyd, Golconda, 1 champion color and shape cock, 1 champion color and shape hen.

MAMMOTH BRONZE TURKEYS—Mr. and Mrs. Alex. Hamilton, Petersburg, Ill., 1 adult tom, 1 champion color and shape yearling tom, 1-2-3-4 yng toms, 1-2-3 hen, champion color and shape 1 plt.

WHITE INDIAN RUNNER DUCKS—Mrs. J. M. Miller & Son, Jacksonville, 1 cock, 1 hen, champion, shape and color male and female.

FAWN AND WHITE INDIAN RUNNER DUCKS—J. S. Bales, R. 2, Springfield, Ill., 1 cock, 1 hen, 1-2 pens, champion shape and color male and female, shape and color pens.

ENGLISH PENCILED INDIAN RUNNER DUCKS—Wm. F. Elliott, R. 3, DeKalb, Ill., 1 ckl, 1-2-3 plt, champion shape and color male and female.

PEKIN DUCKS—Mrs. George Nuttara, Jr., Springfield, Ill., 1 cock, 1 hen, 2 ckl, 2 plt; G. W. Ruth, Summerfield, Ill., 1 ckl, 1 plt, champion color and shape male and female.

SILVER CAMPINES—J. E. Smith, DeKalb, 1 cock, champion and shape male; J. S. Pennington, Plainfield, 1 hen; Spring Hill Farm, Harrisburg, Ill., 1 ckl and color male, 1 plt and champion color and shape female; E. H. Cook, Huntley, Ill., 2-3-4-5 ckl, 2-3 plt.

FRIZZELS—E. P. Ellwood, DeKalb, Ill., 1 ckl, champion color and shape male, 1-2 plt, champion color and shape female.

BLACK COCHIN BANTAMS—Edward Brown, Jr., Mendota, 1 cock, 1 hen, 1 ckl, 1-2 plt, champion color and shape male and female.

BUFF COCHIN BANTAMS—M. E. Roach, Sycamore, Ill., 1 cock, 1 hen, champion color and shape male and female.

BLACK BREASTED RED GAME BANTAMS—Wm. W. Hyde, DeKalb, 1 cock, champion shape and color male.

SILVER SEABRIGHT BANTAMS—Lea M. Munger, DeKalb, 1 hen, champion color and shape female.

SINGLE COMB WHITE ORPINGTONS—Mrs. Bert Holderness, DeKalb, 1 cock, 1-2 hen, champion color and shape male and female; J. H. Holland, DeKalb, 1 cockerel, 2-3-4 plts; Bert Shaw, Elizabeth, Ill., 1 plt.

S. C. BLACK ORPINGTONS—E. H. Smith, Aurora, 1 cock, champion and color male. Chas. Tucker, Sycamore, 2.

BLACK ORPINGTONS—E. H. Smith, Aurora, 1 cock, champion and color male. Chas. Tucker, Sycamore, 2 cock, 1-2 hen, 1-3 ckl, champion color and shape female, shape male; Chas. E. Powell, DeKalb, 3-4-5 hen, E. F. Collin, DeKalb, 2-4 ckl.

S. C. BUFF ORPINGTONS—B. C. Knodle, DeKalb, 2 hen; L. H. Eldridge, Lacon, 1-3 hen, 3 plt, 3-5 cock, 3-5 ckl, 2 yng pen, 1 old pen, color pen on yng pen, shape and color old pen, champion and shape female; Fred H. Heath, Aurora, 2 cock, shape male; John Scheidenhelm, Mendota, 4 cock; F. A. Kaup, Buff Orpington Farm, Glen Ellyn, 2-4 ckl, 4-5 plt, 4 hen, 5 yng pen, 2 old pen; John Gilbery, Sr., DeKalb, 1 cock, 4 yng pen, champion and color male; A. A. Anderson, Macon, 1 ckl, 1-2 plt, 1-3 yng pen, color female, shape yng pen.

SILVER GRAY DORKINGS—Mrs. L. Loughborough, Millington, 1 cock, 1 hen, champion shape and color male and female.

WHITE FAVEROLLES—Robert H. Visser, Alexander, 1 ckl, 1 plt, champion color and shape male and female.

BLUE ANDALUSIANS—Herbert Hodgson.

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Aluminum, numbered to suit, with large raised figures. Postpaid 100-50c, 50-30c, 25-20c, 12-15c. Initials extra 10c per letter per 100; 50 or less 5c. More than one initial with cut figures. Circular free giving price on Superior, Riveted and Pigeon Bands. Sample for stamp.

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Albion, 1-2 ckl, 1-2 plt, champion shape and color male and female.

LIGHT SUSSEX—E. J. Schroeder, Streator, 1-2 hen, champion color and shape female.

RED SUSSEX—Fields Bros., Sandwich, 1 cock, 1 hen, champion color and shape male; A. & E. Tarbox, Yorkville, 1-2 ckl, 1-2 plt, champion color and shape female.

SPECKLED SUSSEX—A. & E. Tarbox, Yorkville, 1-2 cockerel, 2-3 pullet, champion color and shape male; Fields Bros., Sandwich, 3 ckl, 1 plt, champion color and shape female.

BUTTERCUPS—T. B. Turner, Belvidere, 1 cock, 1 plt, champion shape and color male and female.

S. C. ANCONAS—J. D. Clemens, Grantsburg, 1 cock, 1-2-4 hens, 1 pen, shape and color pen; Byron W. Tilbury, Weldon, 3 hen, 2-3 plt; O. A. Browne, Rockford, 1 ckl, 1-4 plt, champion color and shape male and female.

S. C. BLACK MINORCAS—Mrs. L. W. Loufbourrow, Millington, 1 cock, 1-2-4 hen, champion shape and color male and female; John Evald Hjelte, DeKalb, 3d hen, 1 ckl.

R. C. BLACK MINORCAS—J. S. Bales, R. 2, Springfield, 1-2-3 cock, 1-2-3 hen, 1-2-3 ckl, 1-2-3 plt, 1 pen, champion color



Geo. Beuoy's, Cedar Vale, Kansas, exhibit of Capons was the center of attraction at the Greater Chicago Poultry Show, January, 1916. The Partridge Cochins Capon in the above picture weighed 13½ pounds.

and shape male and female and color and shape pen.

S. C. BUFF LEGHORNS—Lea M. Munger, DeKalb, 1 hen, 1-4 ckl, 1 plt, 1 pen, champion shape and color male and female, shape and color pen; H. Parkman, Alledo, 2-3 ckl.

S. C. BROWN LEGHORNS—G. T. Glenny, Rockford, 1 cock, 3 hen, 4 ckl, 1 plt, champion and shape female, color male; E. L. Greene, Belvidere, 2 cock, 2-4 hen, 2-5 ckl; Will C. Does, Lstant, 1 hen, 1-3 ckl, 2-3 plt, color female, champion and shape male.

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White Crested Black Polish
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Better Than Chickens
Young pigeons (squabs) bring 40 to 60c each when 3 to 4 weeks old. Big demand in city markets. Each pair of pigeons easily clear \$4 per year. Always penned up. Very little space and money needed to start. Free Book explains all. MAJESTIC SQUAB CO., Dept. 56 ADEL, IOWA.

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Barred Rocks
White Rocks
White Orpingtons
Buff Orpingtons
R. C. R. I. Reds
S. C. R. I. Reds
White Wyandottes
Silver Wyandottes
S. C. White Leghorns
R. C. White Leghorns
S. C. Brown Leghorns
R. C. Brown Leghorns
S. C. Buff Leghorns
Mottled Anconas
S. C. Black Minorcas
Light Brahmas

We are baby chick specialists and this is our sixteenth season. The chicks we furnish are strictly first class, from pure bred stock, and no finer show or utility stock could be found. Many of our customers report of winning prizes. Be sure to write for our catalog.

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BARSTOW'S ANCONAS

GEO. N.
BARSTOW
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ONEONTA,
N. Y.

continue their string of victories by adding the Palace show Blue Ribbons to their list. This being State, National and Club show in this variety, brought out the best birds in this country, winning six regular and four special prizes. At Syracuse, Allentown and Hagerstown my birds won more first and special prizes than any other exhibitor. The judges claim my birds are the best colored and shaped birds they have handled. Fine green sheen with nice yellow legs and correct mottling are a few of their good points.

If in the market for the greatest egg producers in winter at the least cost of production or fine exhibition birds, write me. Good breeding stock reasonable. Booking orders now for eggs and chicks. Don't wait, but write today.

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Winners of all six firsts at the Chicago Coliseum Show, 1915. We can furnish you Cocks, Hens, Cockerels and Pullets good enough to show in any show at prices that are right. Also a large number of utility and good breeding birds. Breeders of Silvers for 25 years. Write for catalog and prices.

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E. S. TEANEY, Poultry Judge, Manager

KELLER'S WYANDOTTES, Silver and Golden Laced Whites and Blacks

I have line bred them for 32 years; one of the oldest strains in America, and have won more premiums at Madison Square Garden, Chicago, Cincinnati, Cleveland, Columbus, and the three World's Fairs than any other five breeders. They have won for me several thousands of premiums during the past 30 years. The KELLER Strain is known the world over; they have the oval narrow lacing, size, shape and color that puts the KELLER stamp on every bird. We have hundreds of the finest show birds and high-class stock birds, as well as utility stock at reasonable prices; heavy layers. Some rare bargains this month. Rare, narrow laced Golden Sebrights. Large illustrated circular.

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WH. WYANDOTTES BARRED PLYM. ROCKS
S. C. and R. C. RHODE ISLAND REDS
SINGLE COMB WHITE LEGHORNS**

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S. C. WHITE LEGHORNS—E. H. Lyon, Bristol, 1 cock, 3 plt, 1 pen; F. N. Munger DeKalb, 2 cock, 4 plt; R. H. McKenzie Malta, 3 ckl; M. R. Evans, Hinckley, 2 ckl 5 plt; Guy S. Lee, Beloit, Wis., 1 ckl, 1 hen, 1-2 plt, champion shape and color male and female.

PARTRIDGE COCHINS—H. G. Weinrich Cambridge, 1 ckl, 1 plt, champion shape and color male and female.

LIGHT BRAHMAS—H. S. Garman, Ade line, 1 cock, 1 hen, 1 ckl, 2 plt, 1 pen champion shape and color male, shape and color pen; Neal E. Wright, Garden Prairie 2 hen, 1 plt, champion shape and color female.

DARK BRAHMAS—Bachelor's Buttor Kennels, Henderson, Ky., 1 cock, 1 hen champion shape and color male, champion and color female; H. C. Weinrich, Cambridge, 2 hen, 1 ckl, 1 plt, shape female.

BLACK LANGSHANS—Mrs. R. B. Carr DeKalb, 1 cock, 2 hen, 1-4 ckl, 2-3 plt 1 pen, champion and shape male, champion shape and color female, 1 plt; Theo Johnson, Oregon, 2-4 ck, 1 hen, 2 ckl, 4 plt, 2 pen, color male; Frank C. Burton Aurora, 3 cock, 4 hen; M. J. Racster, Albion, 3 hen, 3 ckl, 5 plt; Henry V. Thornton, Aurora, 5 ckl.

BUCKEYES—Chas. H. Holderness, DeKalb, 1 ckl, champion shape and color male.

DARK CORNISH—A. J. Crowell, DeKalb 1-2 ckl, champion color and shape male.

RHODE ISLAND WHITES—C. W. Happ Rockford, 1 cock, 1 hen, champion shape and color male and female.

R. C. RHODE ISLAND REDS—R. O. Good, Polo, 1 cock, 3 ckl, 1-3 plt, champion and color male, champion and shape female; H. W. Bullen, Rockford, 2 cock, 1-1 hen, 5 ckl; Kelley S. Freshwaters, Rockford, 1-4 ckl; W. A. Fair, Belvidere, 2 ckl 2-4 plt, shape male, color female.

S. C. RHODE ISLAND REDS—B. C. Knodle, DeKalb, 3-5 cock, 2 plt, 3 yng pen shape female; H. T. Marshall, Serena, 4 cock, 3 hen; H. B. Walck, Sterling, 1 cock John T. Greenwood, Geneseo, 2 cock, 1-2-3 4-5 ckl, 1-4-5 hens, 1-3-4 plts, 1 yng pen champion shape and color male, champion and color female, shape and color pen Geo. H. Shoenhard, Freeport, 2 hen, 5 plt 2-4 yng pens; Mrs. J. C. Loewer, Worden 5 yng pen; H. W. Prentice, 1 old pen.

PARTRIDGE WYANDOTTES—H. R. Morgan, Aledo, 1 cock, 1-2 hen, 1 chl, 1 plt 1 old pen, champion color and shape male and female, shape and color pen.

GOLDEN WYANDOTTES—D. G. Anthony Wyandot, 1 cock, 1-2 hen, 1 ckl, 1 plt, champion shape and color male and female.

WHITE WYANDOTTES—John C. Jakes DeKalb, 3 cock, 5 hen, 1 yng pen, shape and color pen; W. S. Bowers & Son, Aledo 2 cock, 3 hen; H. W. Smith, DeKalb, 1 cock, 2-3 plt, champion shape male; F. E. Skinner, Sandwich, 3 cock, 2 ckl, 5 cock Mrs. Robert Rhea, Earlville, 3 ckl; Geo. P. Sanford, Wheaton, 1-4 ckl, Carl M. Bailey Decatur, 5 ckl, 1-5 plt, color female; M. R. Evans, Hinckley, 2 hen; W. P. Hacker Milledgeville, 4 hen; Harry L. Lay, Golconda, 1 hen, champion shape female M. R. Evans, 4 plt.

SILVER WYANDOTTES—A. & E. Tarbox, Yorkville, 1-2 cock, 1-2 hen, 1-2 ckl 1-2 plt, 1 old pen, 1 yng pen, champion shape and color male and female, color and shape pen.

COLUMBIAN WYANDOTTES—Calvin Propphetstown, 1-2 cock, 1-2-3 hen, 1-2 ckl 1-2-3 plt, 1 old pen, 1 yng pen, champion and color male, champion color and shape female, shape and color pen; Fred P. Schroeder, Streator, 3 cock, 4 hen, 4 plt shape male.

BUFF WYANDOTTES—Lea M. Munger DeKalb, 1-2 cock, 1 hen, 1 ckl, 1 plt, 1 pen champion shape and color male and female shape and color pen.

PARTRIDGE PLYMOUTH ROCKS—Henry Jaesten, Oregon, 1 hen, 2 ckl, 1 plt, color male, champion shape and color female Revell Poultry Co., Stillman Valley, 1-3-4 ckl, 1 pen, champion and shape male, shape and color pen.

COLUMBIAN PLYMOUTH ROCKS—H. J. Curley, Sheridan, 1 cock, 1 hen, 1 ckl, 1 plt, champion shape and color female, champion

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THE HEN'S CALL FOR
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HARD, SHARP AND CUBICAL
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CHICAGO KING, 1st Prize Cockerel, Chicago Coliseum, Dec., 1914, Special for Whitest Male [11 in the class]

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Chicago Coliseum Winners

The eyes of all Leghorn fanciers are upon the great win made at this show, December, 1914, namely: 1st and 5th prize Cockerel (class of 45), 2nd Cock (class of 26). This was one of the largest classes of White Leghorns ever cooped in America, with many of the country's most prominent breeders competing for honors.

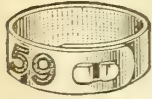
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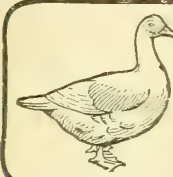
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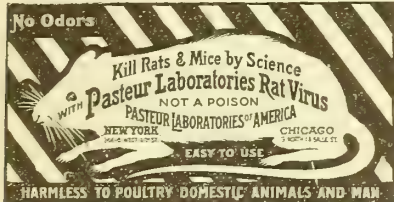
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Best Cockerel, Harrisburg, Pa., Dec., 1915

Satisfaction guaranteed.
Send for Mating List.

M. H. Banks, Dillsburg, Pa.

and color male; Chas. E. Parson, DeKalb, 2 hen, 3 ckl, 3 plt; Clarence P. Atchison, Jerseyville, 2 ckl, 2 plt, shape male. 2 cock, 3 hen; H. W. Smith, DeKalb, 1 BUFF PLYMOUTH ROCKS—G. M. Swarts, Dixon, 3 cock, 5 hen, 4 ckl, Aben Gelande, Oregon, 1 cock, 4 hen, 2 ckl, 4 plt, champion and shape male; Wm. Schade, Ashton 2 cock, 1-3 hen, 3 ckl, 1-2 plt, champion shape and color female; Kellogg & Kellogg, Cambridge, 4 cock, 2 hen, 5 ckl, 3 plt, Chas. M. Dugdale, Chana, 1 ckl, color male, WHITE PLYMOUTH ROCKS—S. A. Tyler, DeKalb, 4 cock, 2-3-5 ckl, 1-2 hens, 2 plt, 1 yng pen, shape female, color pen; J. H. Sharer, Princeton, 3 cock; W. N. Graham, Bradford, 1 cock, 2 old pen, shape male; R. B. Law, Sheridan, 2 cock, 1-3 plt, champion and color female; Chas. Locke, DeKalb, 5 cock, 5 hen, Mrs. Louisa White, Washington, Ill., 1-4 ckl, color male, 2 yng pen; F. E. Phillips, Oswego, 4-5 plt, 3 yng pen; Wm. C. Goodwin, Chillicothe, 4 hen, 1 old pen, shape pen; B. S. Schildberg, Dixon, 3 hen.

EXHIBITION BARRED PLYMOUTH ROCKS—Julius J. Klein, Macon, 2 cock, 2-3 hen, 1-2 plt, champion and color female; A. W. Shriver, Bradford, 5 cock, E. D. Bone, Malta, 3 cock, 2 ckl; Mr. and Mrs. Alex Hamilton, Petersburg, 1 cock, champion and shape male; Geo. A. Putman, Ashton, 5 hen; G. A. Walker, Polo, 4 hen; D. F. Palmer & Son, Yorkville, 1 hen, 4 cockerel, 3-5 plt, 4 cock; Ed. Brown, Mendota, 3 ckl; G. A. Walker, Polo, 1-5 ckl, color male; C. E. Robinson, Sheridan, 4 plt, shape female.

PULLED BRED BARRED PLYMOUTH ROCKS—Julius J. Klein, Macon, 3 cock, 2-4 ckl; Edward Brown, Mendota, 5 cock; Mr. and Mrs. Alex Hamilton, Petersburg, 4 cock, 3 yng pen; D. F. Palmer & Son, Yorkville, 1-2 cock, 1 pen, champion and color male, shape and color pen; A. W. Shriver, Bradford, 1-3-5 ckl, 5 pen, shape male; G. A. Walker, Polo, 4 pen; Harry Robinson, Sheridan, 2 pen.

COCKEREL BRED BARRED PLYMOUTH ROCKS—Julius J. Klein, Macon, 1 hen, 3-4-5 plt; Laufer Bros., Millbrook, 2 hen; D. F. Palmer & Son, Yorkville, 3-4 hen, 1-2 plt, 3 yng pen; A. W. Shriver, Bradford, 2 yng pen, 1 old pen; Mr. and Mrs. Alex Hamilton, Petersburg, 1 yng pen, color and shape pen.

BUFF ORPINGTON DUCKS—E. H. Cook, Huntley, 1-2 ckl, 1-2 plt, champion, shape, color male and female.

COCKEREL BRED BARRED PLYMOUTH ROCKS—J. J. Klein, Macon, best color, D. F. Palmer & Son, champion and shape.

OUR COVER.

Emblazoning the cover of this issue of our Journal is a specimen of the S. C. White Leghorns that are bred and raised by Wilburtha Farm, Trenton, N. J. Wilburtha Farms are one of the largest breeders in the country, they have the "goods," and take pleasure in showing you a real picture of them, unretouched. Note his beautiful shape, remarkable carriage, the beautiful curved breast, and perfect sweep from head to tail, a real Leghorn in every way. It is no wonder Mr. Fisk (the owner) feels proud of him and justly he may, for we believe that you will agree with us when we say, that beyond a doubt he is one of the most perfect specimens of White Leghorns that it has ever been our pleasure to look upon.—P. K. W.

Thornycroft Buff Leghorns

Have won at Madison Square, Pittsburg, Buffalo, New York State Fair, and Hagerstown, within a year. They win in any competition. Write your wants. THORNYCROFT BUFF LEGHORN FARM WASHINGTON, PA.

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Real Success Impossible Without Line Breeding—By Editor.

Woman's Present Place in Poultrydom, and How She Won It—By Mrs. E. W. Mahood.

Interview with E. B. Thompson Barred Rock Specialist, Part II—By Editor.

Making a Living from a Combination Poultry and Fruit Farm—By A. A. Graham.

How Berry's Golden Rule Poultry Farm Does Business, Part II—By Editor. Eggs and Poultry for The Family Table—By A. F. Hunter.

Second Arkansas State Laying Contest.

Madison Square Garden Show Report—By L. J. Brosemer.

Philadelphia Show Report—By L. J. Brosemer.

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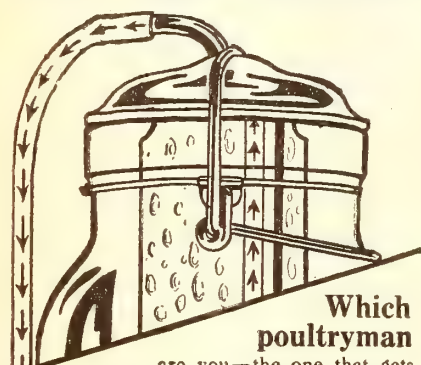
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A poultry brooder invented by L. R. Oakes, of Tipton, Ind., has a novel method of distributing the heat from the heating lamp. The brooder has a horizontal radiation disk of metal extending from the hover compartment and also from the heating chamber. The air

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Which poultryman

are you—the one that gets 500 chicks from 600 eggs—or one that gets 500 chicks from 1,000 eggs?

The EFFICIENCY and modern methods in other lines now apply to the hatching of chicks in incubators.

Your chicks die trying to burst the shell—or soon afterwards from white diarrhoea caused by being poisoned by the carbon-dioxide gas they throw off in the air they breathe. During the last three days of the hatch you can save practically every chick and make it vigorous so that it will resist chick ills by using the

Merkley Oxy-Vitalizer

to supply them with moist oxygen. Can be attached to any incubator in five minutes. Self-operating—no watching. One can be used for several incubators. Lasts a life-time. Multiplies your profits on every hatch. Write for free literature or better still write for a VITALIZER. The price is only \$3.50 parcel post prepaid, and it will buy itself in one hatching.

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within the hover compartment is heated by this radiating plate. The passage-way communicates with the heating chamber. To one side of the lamp and above this passage-way is a vertical flue to introduce a draft thru the heating chamber. The patent number is 1,167,013.

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About 30% Tri-Calcium Phosphate
Popularly Called **BONE ASH**

NO OTHER BONE NEEDED | **NO OTHER GRIT NEEDED**

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VALUABLE BOOKLET FREE
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Send for a free leg band for that prize bird of yours. We will also give you a circular of the Bourne big numbered poultry band, having large numbers easily read from a distance. Especially recommended for trapnested hens. State size wanted, Bantams, Leghorns, Rocks. Male or female. Band is made with black numbers from 1 to 500 on red, white, yellow, pink, cerise, green and light blue celluloid. Will stand weather and water. Price 3c each, \$2.50 a hundred. Send cash with order.

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Finest pictures and beautiful color plates. Complete instructions how to breed, hatch, feed by improved methods, describes our busy Poultry Farm with 53 pure-bred varieties, including **Runner Ducks**. Lowest price list on fowls, eggs, incubators, sprouters, etc. This great 50c book mailed for only 6 cents. Berry's Poultry Farm, Box 115, Clarinda, Iowa



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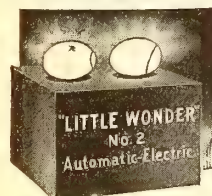
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Send for descriptive circulars and testimonials; they will convince you! Here's just one: from the great Antona breeder:—"It is just what I have been looking for; would not take ten times the price of it, if I could not get another." H. Cecil Sheppard, Berea, Ohio, June 17, 1915. Manufactured by J. B. TIMBERLAKE & SONS, STATION "A" JACKSON, MICHIGAN.

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will put you ahead in the show room or laying contest. Our record at the National Egg Laying contest has never been equaled by any Buff Orpington breeder.

Stock for sale. Eggs for hatching. From our Peoria, Springfield and Quincy winners. Prices reasonable. Satisfaction guaranteed.

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A VICTORY
Seldom Equalled

At Great Chicago Coliseum Show
With 130 birds entered, we won

1-2-3-5 Cockerels
1-4 Cock
2-3 Hen
4 Pullet
2 Young Pen
Male, Shape and Color
Special
Best Display

The excellent quality and uniformity of type of our exhibit was the talk of the show. It caused such a leading authority as Judge Len Rawsley to make favorable comment. Our breeding pens will contain these Coliseum winners, thus assuring you of the best quality obtainable. Eggs from these Coliseum matings \$5.00 per setting. Book your order early.

Our prices on exhibition and breeding birds are very reasonable; let us quote you. Send for list.

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Box A - BUCYRUS, OHIO
Breeder of White Wyandottes that are just a little better than the ones you thought were the best.

STAR-EGG-O
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"Star-Egg-O Keeps Up Always on the Job"

Star-Egg-O tones up the fowl's system, aids its digestion, and helps it through the moult. It is the Egg Tonic that puts the eggs in the basket and the dollars in the bank. Packages 25c, 50c, and \$1.00.

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Williams' Buttercups
Bred to win. Free range, superior birds mated to produce best results in standard requirements. Cockerels, Trios and Pens. Prices reasonable.

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Real Winners at Milwaukee, Madison, Janesville, and other Mid-West shows. Young stock for sale. Eggs in season. Prices reasonable. Write. O. R. EDDY - Oconomowoc, Wis.

BOSTON POULTRY — SHOW —



THE GREAT BOSTON SHOW

THE 1916 Boston Poultry Show was widely advertised as "The Big Show"—well, it was *big*—big in number of entries, big in interest and attendance, big in quality, and big in the broad sense of good fanciership and good sportsmanship—a truly *big* show in all that the term implies.

The twentieth annual exhibition of the Boston Poultry Association at the Mechanics Building, Boston, Mass., January 11th to 15th, 1916, will go on record as the big show of the season. There were 3,019 regular single entries in the fancy poultry classes, 154 exhibition yards, 67 special displays, 176 singles in live utility classes, 46 separate entries in dressed poultry classes, 127 dozens in the egg classes, 306 entries of pet stock, and 2,476 entries of pigeons; making a grand total of 6,371, and to this should be added a special cat show, including 300 well-bred feline beauties.

Altho Boston is not noted for the mildness of its January weather, the weather man proved himself a good sportsman and turned out an unusually fine quality for show week, good bright days with plenty of sunshine, albeit there was variety enough, with a dash of rain and snow and mild temperatures spiced with one zero night. It was uncommonly gentle and kindly weather for a Boston Show week and it helped to bring out a large attendance from all over New England and Middle Atlantic States.

Secretary-Manager Winthrop B. Atherton—who is the friend of all exhibitors and "Billy" to fanciers everywhere—was right on the job as usual from start to finish of the big show, with a smile and a kind word for everybody and never a ruffled feather, no matter how busy or how exacting the situation. "Billy" Atherton has been a successful show manager in Massachusetts for more than thirty-two years, has been prominently identified with Boston Shows since 1887 and secretary-manager of the Boston Show since 1907. "Billy" is always a true fancier, a courteous gentleman and a loyal friend, an indefatigable worker for the pure-bred poultry cause, and the same "Billy" Atherton we have known for more than twenty years—success has not spoiled him, may his tribe increase and may his shadow never grow less.

One of the pleasing features of show week was the little surprise for Winthrop B. Atherton by his friends in the fancy, which was timed for Thursday afternoon when he was presented with a handsome gold watch, suitably engraved. The presentation speech was made by Secretary Charles D. Cleveland, of the Madison Square Garden Show. With the gift watch was a scroll signed by the donors which read:

"We, the undersigned poultry, pigeon and pet stock exhibitors, judges and fanciers, appreciating the long and faithful service rendered to the American Fancy by Winthrop B. Atherton, as Secretary and Manager of the Great Fanciers' Show, held at Boston, annually, as well as remembering his uniform courtesy and strict impartiality toward all, do hereby subscribe the amount opposite our names, for the purpose of providing a substantial token of our esteem, to one who has made the Boston Show a leader among

Twentieth Annual Exhibition of Boston Poultry Association at Mechanics Building, January 11-15, 1916

By Prince T. Woods, M. D.

the great feathered exhibitions of America and who has done yeoman service to maintain the highest ideals in Standardbred poultry culture of the United States.

"May the years of time Winthrop B. Atherton has devoted to the American Fancy in the great feathered exhibitors of America future."

Altho the subscription for the time-piece was started at the "Garden," never a whisper of it had reached "Billy," the gift was a complete surprise and, as he said, it broke him up completely, but he "came back" with a happy response. During the remainder of show week pretty nearly everybody he met insisted on asking "Billy": "What time is it?" Material appreciation of meritorious services at a time and place when it can be appreciated by the recipient, is certainly well worth while, and it adds much to the helpful human interest that makes this world such a desirable place to live in. As a visitor from the West, who had never before attended a Boston Show, remarked: "Say, this show is *different*, there is something about it that makes you feel good, glad to be interested in poultry. I'm glad I came."

The annual banquet tendered by the management to exhibitors and friends was held as usual at the Copley Square Hotel on Tuesday evening. The regular dinner to the Veteran Fanciers was given in one of the committee rooms of the show hall on Wednesday afternoon.

Among the veterans present were: I. K. Felch, Natick, Mass., 82 years; Howard B. Coffin, Newton, Mass., 76 years;

Fred A. Houdlette, Boston, 75 years; William H. Sylvester, Brockton, Mass., 68 years; Dr. S. Lott, Bellona, N. Y., 73 years; Frank C. Nutter, So. Portland, Me., 66 years; M. L. Ellis, Norwood, Mass., 66 years; H. B. May, Allston, Mass., 84 years; C. H. Colburn, Manchester, N. H., 63 years; W. J. Elliot, St. Catharines, Ont., Canada, 62 years; Geo. W. Weed, East Lee, Mass., 62 years; J. M. Perry, Brockton, Mass., 76 years; Frank B. Breed, Clinton, Mass., 81 years; Charles W. Richardson, Apponaug, R. I., 73 years; W. A. Cobb, So. Portland, Me., 63 years.

As usual the displays by manufacturers of incubators, brooders, supplies, portable houses, appliances and poultry feeds, made a fine showing and for variety of displays and space occupied presented a very creditable specialty show of this branch of the business. The leading poultry journals were represented at their respective booths and all reported very good business.

The exhibition of live utility poultry and of dressed poultry and eggs; together with the special exhibit of the Massachusetts Agricultural College, in charge of Prof. J. C. Graham, of Amherst, Mass., held in the basement, attracted large crowds of visitors. Here lectures on practical poultry topics were given several times daily and demonstrations given in various phases of poultry work. An egg candling booth was used to demonstrate quality in eggs. Included in the M. A. C. exhibit were coops of live specimens showing hens of high and low productivity and also of high and low fertility.

In the live utility exhibits were shown some very good specimens combining both beauty and utility as well as some of varying quality. As a whole the quality here from a Standardbred viewpoint was excellent and most of the specimens shown showed good strong constitutional vigor. This feature of the show is a valuable one and deserves to be encouraged. It proves a good "feeder" to the large fancy exhibition in the upper hall and we were told that a good many of the winners at this exhibit of last season were well represented in the regular fancy classes this season. One of the features of interest in the "utility classes" was the Black Langshan hen "Spok-Anne Maid," No. 62, the sex-control-bred hen as a prize for best Langshan article from an A. P. J. subscriber offered by Herb E. Sharp, of Spokane, Wash., and won by J. F. Robinson, of South Weymouth, Mass. "Spok-Anne Maid" is said to be the first hen that ever made the trip from Spokane, Wash., to the Boston Show. Her record as a sex-control specimen is 22 chicks from 28 eggs, 18 of the chicks pullets and 4 of them cockerels. She is expected to throw 70% or better pullets in her offspring and her performance the coming season will be watched with interest. Several judges of Asiatics pronounced her a good Langshan and an uncommonly good utility type hen. She was in fine condition after her long trip across the continent and reported as laying regularly since





**WHITE PLYMOUTH ROCKS
FIRST COCKEREL**

FIRST, SECOND, THIRD AND FOURTH PULLET
WINNERS AT BOSTON, JAN. 1916
BRED AND OWNED BY
W.F. HAYWARD, WESTBORO, MASS.



Study this unretouched picture carefully, take note of the amazing uniformity of type, it shows what careful and consistent breeding will do. Think of it! First, second, third and fourth pullet in a class of thirty-five birds and first cockerel in a class of forty-five. Mr. Hayward has been a consistent Boston winner for several years and every bird in his yards was bred by him. Address, W. F. Hayward, Westboro, Mass.

arrival and she won first prize in her class.

The displays of dressed poultry were uncommonly good this year and we hope to see more of them another season. Capons and soft roasters were particularly fine, an exhibit of well fattened pullets dressed as roasters and of some fine large soft meated cockerels also attracted a great deal of interest. More attention could well be given to the display of eggs. We believe that the eggs on exhibition should be labeled according to breed and variety and that this would greatly increase the interest and prove of educational value to visitors. Also it would seem advisable to place the awards on eggs according to quality as well as just size and color, and to give the candling test before making awards. Some of the eggs on exhibition looked decidedly ancient to us.

We believe that more attention could be profitably given to featuring the utility department at the Boston Show. It certainly was a great center of interest to visitors. Also, in listening to the comment of the crowds in both upper and lower halls, we noted that three questions are asked by the public more often than any others and regarding all exhibits. These questions are applied to the exhibits in practically all breeds and varieties and may be taken as an indication of how the public views poultry, they are:

1. "How old are they?"
2. "Are they good layers?"
3. "What is the color and size of their eggs?"

We heard visitors ask these questions many times at both big New York shows and at the big Boston Show. Isn't it quite probable that they indicate the trend of the public mind as regards poultry and that we would do well to at least attempt to supply this desired information at our big shows? In some exhibition and display cages baskets of eggs were displayed to show the product of the birds on exhibition and in every case such were centers of interest. The public is certainly very materially interested in a source of food supply—in meat and eggs poultry—as well as in fine feathers and the interest in a combination of the beautiful with the useful is decidedly on the increase. He is a wise fancier-breeder who pays careful attention to the development of this interest on the part of the public and it will certainly mean a worth-while improvement in the business when more breeders seek to breed for both beauty and utility. Fanciers do not sell a great deal of breeding stock to fanciers, for obvious reasons, but they must make sales to the general public and in order to stay in business will have to give the public what it wants. The present day situation in the development of poultry culture is worth considering carefully

and the signs of the times are worth noting.

Among the club meetings held at the Boston Show were: International Partridge Plymouth Rock Club, National American Dominique Club, Buff Orpington Club, New England Golden Wyandotte Club, American Water Fowl Club, New England Bantam Breeders, New England Turkey Breeders, The Hamburg Fanciers' Club, American Light Brahma Club, American Houdan Club, American Jacobin Club, American Oriental Frill Club, Exhibition Homer Club, American Pigmy Pouter Assn., International Magpie Club, and American Tumbler Club.

The judges at Boston were:

W. M. Anderson, Saratoga Springs, N. Y., Buff, S. C. Brown and Blue Leghorns and Spanish, Levi A. Ayers, Granville, N. Y., Columbian Plymouth Rocks, J. W. Bean, So. Braintree, Mass., Rhode Island Reds, W. H. Congdon, Oaklawn, R. I., Ornamental Bantams, Charles D. Cleveland, Eatontown, N. J., Columbian, Silver Penciled and Blue Wyandottes, J. M. Cutting, So. Braintree, Turkeys, J. H. Drevenstedt, Buffalo, N. Y., Hamburgs, F. H. Davey, Vineyard Haven, Mass., Silver, Partridge and Golden Wyandottes, James Glasgow, Mahwah, N. J., White Wyandottes, Herman Hoke, Spring Grove, Pa., Javas, Creve Coeur, Thoroughbred Games, La Fleche and Red Caps, J. P. Keating, Westboro, Mass., Light Brahmas, John Kriner, Stettlersville, Pa., Waterfowl, Wm. G. Minich, Carlisle, Pa., Cornish, Games and Game Bantams, Mrs. W. P. Masten, Pleasant Valley, N. Y., Polish, Haldie Nicholson, Leominster, Mass., White Plymouth Rocks and Sussex, Richard

(Continued on Page 327)



Fourth S. C. White Leghorn cock, Boston, 1916. Note the length of back and large well spread tail. An ideal Leghorn in every way. Bred and owned by Willow Tree Farm (McKean Bros.), Beverly Farms, Mass.—P. K. W.



A pure white bird, with rich yellow shanks and bright red comb, wattles and ear-lobes. As near perfect as can be bred. First White Rock cockerel at Boston, 1916. Bred and owned by W. F. Hayward, Westboro, Mass.—P. K. W.



First pen male in White Wyandotte class, Boston, 1916. There were ten pens entered, so one can judge just what this win means. The females were of the same fine type. Bred and owned by J. W. Andrews, Dighton, Mass.—P. K. W.



A very handsome bird, perfectly white, up to Standard in every way. Easy winner of first White Wyandotte hen, Boston, 1916. Bred and owned by J. W. Andrews, Dighton, Mass.—P. K. W.



Champion Gladstone. First cock in S. C. Reds at both Madison Square Garden and Boston, 1916. Also winner of championship at Boston. The strong Red class at these two shows tells how perfect he is. Bred and owned by Rock Ledge Farm, Southborough, Mass.



The type of S. C. Rhode Island Red pullets found in breeding pens of Rock Ledge Farm, Southborough, Mass. A bird bred by them and exhibited at Boston, 1916.—P. K. W.



First White Leghorn cockerel, Boston, 1916. A bird that brought forth a great amount of favorable comment. Excellent type, pure white in color. Owned by Owen Farms, Vineyard Haven, Mass.



Male bird of first pen S. C. Buff Orpingtons, Boston, 1916. Even shade of rich golden-buff thruout, with hackle and saddle richly glossed. Owned and bred by Owen Farms, Vineyard Haven, Mass.—P. K. W.



First Partridge Wyandotte pullet, Boston, 1916, also first at Cleveland. A perfect penciled bird with ideal slate undercoloring and bright yellow shanks and toes. Bred and owned by Sheffield Farm, Glendale, Ohio.—P. K. W.



Truly a Barred Rock in every way. Almost perfect in type and color, with barring brilliant and snappy in every section. One of winning pullets at Boston, 1916. Bred and owned by Grove Hill Poultry Yards, Waltham, Mass.—P. K. W.



A beautifully colored bird thruout. Winner of first Partridge Wyandotte cockerel at both Boston and Palace Show, N. Y. Owned and bred by Sheffield Farm, Glendale, Ohio.—P. K. W.



As perfect a Columbian Wyandotte as was ever bred. This is the male bird from prize pen, Boston, 1916. Bred and owned by Gilbert Poultry Farm, Haverhill, Mass.—P. K. W.



World's Champion. Winner of first and champion Barred Rock hen at the World's Fair, 'Frisco, November, 1915. Bred and owned by A. C. Hawkins, Lancaster, Mass.—P. K. W.



First White Wyandotte pullet in a hot class, Boston, 1916. A well curved bird thruout, broad, deep round breast, short tail, short broad back. Bred and owned by White Wyandotte Poultry Yards, Westborough, Mass.—P. K. W.



Note the short, broad back and deep round body, together with short stout thighs. Winner of second White Wyandotte cockerel, Boston, 1916. Owned and bred by Mirimichi Poultry Farm, Foxboro, Mass.—P. K. W.



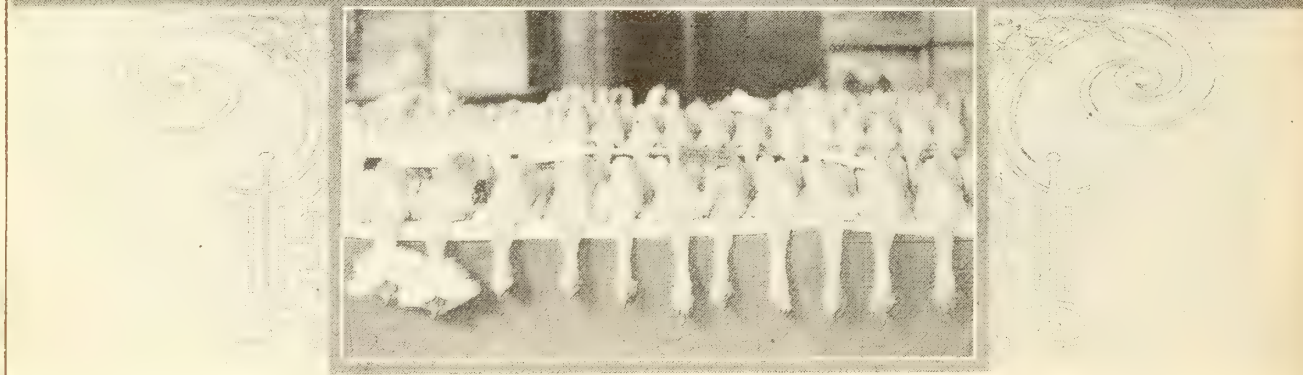
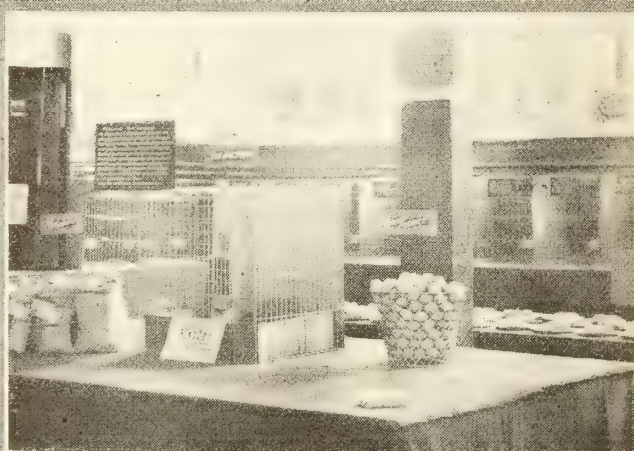
At Madison Square, 1916, in a class of twenty-six birds, this bird captured second White Rock pullet. Good broad back, full, well rounded breast, fairly well spread tail. Bred and owned by Mirimichi Poultry Farm, Foxboro, Mass.



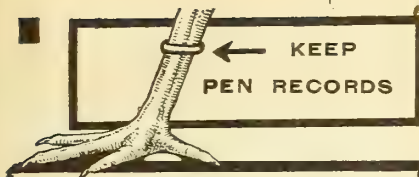
This year was no exception to the strong Barred Rock class always shown at Boston. A win there means something, as competition is very keen. This is the first hen, bred and owned by C. H. Latham, Lancaster, Mass.—P. K. W.



Third White Rock hen, Boston, 1916. Excellent type and color, not in condition when judged. Owned by Branford Farms, Groton, Conn.—P. K. W.



Three views of the utility department of the Boston Show. This department is conducted in the basement away from the fancy show. Here they bring utility birds, eggs and dressed poultry to compete the same as the fanciers do. It is a proven fact that in many cases people who exhibit in the utility department one year, the following year finds them exhibiting in the fancy department.—P. K. W.



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Won 1st Pullet and 2d Cockerel, Chicago, Jan., 1915, also winners at St. Louis, Milwaukee and Mid-West shows. Can furnish chicks, eggs and stock. Circular free.

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Suss-X Red Speckled

Prize winners at Chicago and Big Round-Up Show at Detroit. Eggs \$10 per 15. 80 grand SILVER CAMPINES for sale very reasonable. Write quick.

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HOPKINS, MICHIGAN.

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Tom Barron's illustrated book: "How I Breed the 200-Egg Hen," tells how to make all your hens phenomenal layers; how he mates, rears, houses feeds and selects "egg types." Specially reduced from \$1.00 to 50 cents so every poultryman and farmer can have one. **Tom Barron Pub. Co.** Dept. 5-6, 1631 N. 5th St., Philadelphia, Pa.

BIRDS BARRED PLYMOUTH ROCKS EGGS
Indianapolis, 1914 and 1915 State Champion Cockerel; 1st pen; 2nd pen; 1st cockerel; 1st pullet; 2nd and 3d hen. A limited number of birds for sale.
W. H. Goddard & Sons, Orchard Place, Riverside, Muncie, Ind.

Boston Poultry Show.

(Continued from Page 321)

Oke, London, Ont., Orpingtons and Dorkings. Frank L. Platt, Swanton, Ohio., Campines, Favorelles and Buttercups. F. W. Rogers, Brockton, Mass., White, R. C. Brown and Silver Leghorns, and Partridge Plymouth Rocks. Miss O. E. Remsen, Annapolis, Md., Minorcas, Anconas and Andalusians. H. P. Schwab, Irondequoit, N. Y., Silver Penciled Plymouth Rocks and Houdans. Charles H. Shaylor, Lee, Mass., Barred Plymouth Rocks. A. O. Schilling, Buffalo, N. Y., Buff Plymouth Rocks and Buff Wyandottes. Eugene Sites, Dark Brahmas, Buckeyes, Malays, Sumatras and Lakenvelders. George W. Weed, East Lee, Mass., Cochins, Black Wyandottes, Black Leghorns and American Dominiques.

Pigeon Judges—Arthur A. Burnett, Luton, Beds, England, Jacobins. Geo. A. Burnham, Cliftondale, Mass., Fantails. I. B. Brennaman, Lebanon, Pa., Orientals. Geo. Feather, Dorchester, Mass., Tipplers, Nuns, Helms. Cumulets, Trumpeters, Carriers, Hen and Miscellaneous. Walter A. Hersey, Wellesley Hills, Mass., Exhibition Homers. A. M. Ingram, Milford, N. H., Swallows, Parlor Tumblers,



First American Dominique cockerel, Boston, 1916. Note the long full tail and broad round breast. Bred and owned by C. W. Besse, Jefferson, Maine.—P. K. W.

Barbs, Archangels, Pouters and Norwich Croppers. Thomas M. Reval, Philadelphia, Pa., Record Homers. C. E. Twombly, Medford, Mass., Carneaux, Dragons, Show Homers, and Frillbacks. E. B. Ulrich, Reading, Pa., Magpies, Owls and Turbits. E. R. Page, Pigmy Pouters.

Live Utility Fowls—Prof. J. C. Graham, Amherst, Mass.

Dressed Poultry and Eggs—George V. Fletcher, Belmont, Mass.

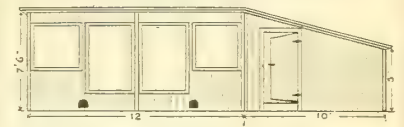
Pet Stock—W. H. Tabor, Long Branch, N. J.

Cats—Mrs. G. C. Gillispee, New York.

Mechanics Building, with its several acres of well lighted floor space, is an uncommonly fine place to hold a poultry exhibition. The cooping is all at the same level, no double tiering, the aisles are of comfortable width and every specimen is shown to advantage. We believe that the first poultry show to be held in Mechanics Building was in 1887 and the second in 1888 and that W. B. Atherton was on the committees that conducted both of these exhibits. At that time the exhibition hall was surrounded by marshes and considered very far out of town. Today it is practically in the heart of the city. In 1890 the Boston Show was held in the old Music Hall, a few blocks from the Park and Tremont streets end of historic Boston Common, and this show was under the direction of W. B. Atherton, who was then president of the Massachusetts Poultry Association.

The Boston Poultry Association suc-

WHY Build your own Poultry houses when we can sell you one all complete for what the material alone will cost you.

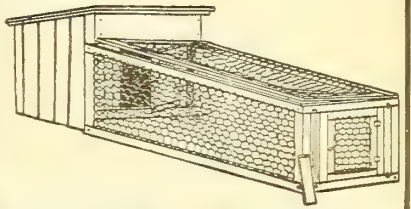


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Our latest model

30 other styles to select from. Send for Catalog No. 422.

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PARKS' WHITE LEGHORNS.

McKenzie Strain Australia Mumby Strain New Zealand Barron Strain England Mumby & Barron Crossed Strain America

OREGON EXPERIMENTAL STATION STRAIN

MR. H. K. FOX, Frederick, Md., Says:

"Parks, your catalog 'Utility Facts' contains more common sense information than all others put together."

Yes, it gives the Laying Contest reports and utility facts of the world. Direct from the leading authorities of United States, Canada, England, Australia and New Zealand. It also gives prices and general information on the Official World Record Strains We Breed. It's sent free.

J. R. Parks, Box P, Altoona, Pa.



CHICKS 50,000

from pure bred, range raised stock. Rocks, Reds, Orpingtons, Leghorns, Wyandottes, Minorcas.

Write for descriptive catalog. Standard Poultry Co., Route 3 Nappanee, Ind.

Buff Orp'n Sale

Chicago winners must be sold at once. 2nd cock, 2nd and 6th cockerels and State Show winners. Get one of these birds and get started right. Wire or write.

E. L. BEMIS - FOND DU LAC, WIS.

Merrell's WYANDOTTES COLUMBIAN

Winners at Chicago, January, 1916.

Four birds entered—cock, cockerel, hen and pullet, and all placed. Stock and eggs for sale. Place egg orders early. Write for prices.

ARTHUR MERRELL : Solon Mills, Ill.

BUCKEYES

World's Fair and Club Show CHAMPIONS

Hatching Eggs from the best of the breed. Mating List Free. **Elton C. Mahon** BUCKEYE SPECIALIST NORWOOD, TENN., U. S. A.

S.C.B. Minorcas

that have size and quality. Winning three successive years at Quincy show. Eggs for hatching; write for prices. **Grover Deege, 514 Jefferson St. Quincy, Ill.**

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Champions of the Boston Show

Again we win 1st Pen, the most coveted prize, also 3rd Pen, 2nd and 4th Cock, 2nd and 6th Hen, 2nd, 4th and 5th Cockerel, and 6th Pullet. Best Display and most points two years in succession. Our catalog on stock and eggs is free.

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TREMPER'S Perfection Blue Barred Rocks

The Highest Award on Exhibition Females, First Prize Pullet at the Great Panama-Pacific Exposition. This, with my Illinois State Fair win of 1-2 pullet and 1-5 pullet-bred pen and my Chicago and State Show wins, make those males and females at \$5 and \$10 each look nifty. Pens mated. Am booking egg orders. Catalog free upon request.

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BLACK LANGSHAN WINNERS

Shabbona Chief strain, bred to win and lay. Won three firsts this year at State show, also champion male and many other prizes. Stock and eggs for sale. Every bird guaranteed to please. Prices reasonable. Write for FREE booklet.

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TUCKER'S BLACK ORPINGTONS

Winners at the great State show (five entries) won 1st and 2d hen, best shape, color, and champion female. 1st and 3d cockerel, best colored male and 2d cock. Stock for sale. Satisfaction guaranteed. Write today.

CHAS. TUCKER - Maple Street - SYCAMORE, ILL.

Rhode Island Whites

Great winter layers—beautiful in the show room. Easier to breed and better layers than the Reds. Winning over all varieties. My winnings at Cleveland, Canton and Forest City Fair, 1915, as follows: 46 ribbons and cash prizes, 2 silver cups, 14 specials, 3 championship display prizes, 2 royal purple ribbons, 1 large golden trophy. If you want profit winners and layers get The Puritan strain R. I. Whites stock. Eggs. Baby chicks. Circular free.

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Harbin's S. C. Wh. Orpingtons

are now expertly mated with his pedigreed winners, and mating list is ready for the asking. Each female trap-nested. Best results with early hatches. A few extra males for sale reasonable. I can interest you. Write now.

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Astle's Quality Buff Plymouth Rocks

Won first pullet and second cockerel at Chicago, January, 1916, in strong competition. 2nd cock, 3rd hen at Illinois State Show, January, 1916. 3rd cock, Chicago Coliseum, December, 1915. 1st, 2nd, 3rd pullet, 1st cockerel, 1st hen, 1st pen, Kankakee, Ill., January, 1916. Astle quality has won its share the last six years. Mating list will be ready February 1st.

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Munger's Buff Leghorns and Wyandottes

Winners at Chicago, State show, Elgin, and wherever shown. Extra fine in type and color. Many trap-nested record layers in our pens. Stock and eggs for sale. Prices reasonable. Write today.

LEA M. MUNGER, Route 3, DeKalb, Illinois.

BARRED PLYMOUTH ROCKS

Large and Prolific Laying Strain, Bred for Eggs, Size and Perfection from the best layers to be had for 25 years. Book your orders early for eggs. No female stock for sale. Circular free.

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McLEAN'S S. C. Rhode Island Reds

NONPAREIL STRAIN

A vast number of show specimens now ready. Write me your needs.

S. G. McLEAN - SO. GLASTONBURY, CONN.

ceeded the old Massachusetts Poultry Association in 1894 and was incorporated in February, 1895, and held its first annual show at the Mechanics Building January 14th to 17th, 1896. Arthur R. Sharp was superintendent of this show, and the total specimens on exhibition was given as 4,015. The exhibit of dressed poultry and eggs by Boston marketmen was a remarkable one. The second show was given the last week of January, 1897, under the same management, having a premium list totaling \$6,356, and there was a considerable increase in the number of specimens shown. The dressed poultry and eggs exhibit was held in the upper hall and was one of unusual merit. The 1898 show was held January 18th to 22d under the superintendence of T. Farrar Rackham and was truly a wonder show in both number and quality of the



The oldest species of chickens in this country, the American Dominique. A grand old fowl that lay and pay. This is first pullet at Boston, 1916. Bred and owned by C. W. Besse, Jefferson, Maine.—P. K. W.

Standardbred exhibits and in the fine display of dressed poultry and eggs. The cash prizes totalled about \$6,000. The show of 1899 was another big show of quality Standardbreds, and included one of the finest and largest exhibits of dressed poultry and eggs that has ever been shown in Boston, and so it goes, Boston Show has ever been a big show and a good show. The total entries as shown by the catalog in 1896 was 3,157, which compared with the 6,371 of 1916 shows a very comfortable increase in two decades. The dressed poultry and eggs exhibit of recent years is not up to the number of entries of earlier shows but it certainly shows remarkable excellence in quality, and we hope that the quantity will increase.

The 1916 Big Show showed splendid Standardbred quality running well thru all of the classes. Asiatic classes, while not showing the strength and numbers of earlier shows, have made considerable improvement over the showing of recent years and there is every indication that the heavy breeds are coming back strong and with fine quality.

Light Brahmas, a grand display of fine type and strong markings with the winnings well distributed among the exhibitors; 16 cocks, 20 hens, 31 cockerels, 27 pullets, 12 pens. Dark Brahmas, small classes but quality good. Buff Brahmas, one pen. Buff Cochins showed some wonderful quality, color, type and

feather; 6 cocks, 7 hens, 6 cockerels, 6 pullets, 3 pens. Partridge Cochins appear to be coming back strong with some old-time color quality and good type; 6 cocks, 8 hens, 6 cockerels, 7 pullets, 3 pens. White and Black Cochins, small exhibits. Black Langshans, some splendid quality in size, type and color; 7 cocks, 7 hens, 9 cockerels, 9 pullets, 2 pens. One excellent pen disqualified because of a tiny side sprig on one of the females. White Langshans, small exhibits and quality only fair.

Barred Plymouth Rocks, a remarkably fine exhibit and one of the centers of interest of the show; 22 cocks, 18 hens, 42 cockerels, 21 pullets, 4 pens. Pullet-bred cocks, 6; cockerels, 9. Cockerel-bred hens, 9; pullets, 10. Cockerel-bred pens, 5. Pullet-bred pens, 2.

White Plymouth Rocks, a grand display of good quality and type; 24 cocks,



One of the attractions at Boston Show was a display pen of Japanese Silkies—this is one of them. Bred and owned by W. B. Atherton, Randolph, Mass.—P. K. W.

23 hens, 45 cockerels, 36 pullets, 8 pens. Buff Plymouth Rocks, another quality class, with fine color and type; 11 cocks, 7 hens, 13 cockerels, 11 pullets, 1 pen. Partridge Plymouth Rocks, good strong classes; 13 cocks, 15 hens, 18 cockerels, 19 pullets, 3 pens. Silver Penciled and Columbian Plymouth Rocks, small classes with some good quality.

Silver and Golden Wyandottes, some splendid quality and classes just sufficiently well filled to take care of the awards. White Wyandottes presented a remarkable exhibit with fine quality running thru the classes, winnings as a rule went to birds of splendid type and good substance; 23 cocks, 32 hens, 42 cockerels, 36 pullets, 10 pens. Buff Wyandottes excellent in type and color; 11 cocks, 12 hens, 22 cockerels, 13 pullets, 5 pens. Black Wyandottes, small classes. Partridge Wyandottes, good in color and type; 7 cocks, 8 hens, 7 cockerels, 7 pullets, 2 pens. Silver Penciled Wyandottes, quite well filled classes and excellent quality. Columbian Wyandottes, good in type and markings; 9 cocks, 11 hens, 11 cockerels, 10 pullets, 3 pens.

Javas, small classes of birds of excellent size.

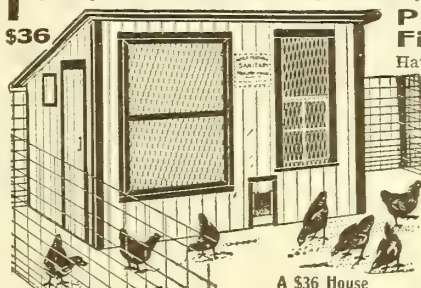
American Dominiques, some excellent specimens of good type and color; 4 cocks, 5 hens, 5 cockerels, 6 pullets, 1 pen.



DON'T KILL or sell your laying hens

Use the **Potter System** and pick out the layers from the loafers and diseased hens. Keep only healthy laying hens. The **Potter System** is a secret and the greatest discovery of the century in the poultry world on the subject of Egg Producing Hens. Used by over 50,000 satisfied poultry keepers, who are saving dollars every year. Our new 100-page **Potter System** book. "**Don't Kill the Laying Hen**," contains the secret and knowledge about laying and non-laying hens. It's a revelation to poultry keepers, and you will learn how you can use the **Potter System** on your flock, keep less hens, get more eggs and make more money using it. Write today, sending two red stamps to cover postage on our large catalog and circular telling all about **Potter Poultry Products** made for Particular Poultry People. If you are particular and want to make more money on your flock, you will write us today.

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No. 5, Style "D" Potter portable open front fresh air, scratch shed house, equipped with No. 17, Style "A" 5-ft. 3-perch complete henhouse outfit for 30 hens. Price of complete house, \$36.00. Painted 2 coats.

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Contains 132 pages and over 150 illustrations showing Potter portable houses, coops, henhouse outfits, feed hoppers, brooders, hovers, feeds, etc.—in fact everything the poultry keeper needs to insure the greatest success. Catalog mailed for two red stamps to cover postage. Write for it today and save money.

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Potter Poultry Houses and Fixtures— Portable, Sanitary, Inexpensive

Have been on the market for over ten years and are used and recommended by thousands of poultry keepers who want the best and buy the best in poultry houses and equipment. You start right when you buy a Potter portable with complete outfit of roosts, drop board and nests. A clean, sanitary house means healthy hens and lots of eggs. The fresh air sanitary house shown here is only one of the twenty styles of houses and coops we make ranging in price from \$3.50 up and everything we make is absolutely guaranteed.



No. 19, Style "A", 6-ft. 3-perch complete Potter henhouse outfit for 36 hens. This same style made in 12 sizes.

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Use "**OCULUM**," the CELEBRATED NEW DISCOVERY which has stood a United States Government test at Washington, D. C.

"I was getting 20 eggs a day when I began using **OCULUM** three weeks ago. Today I got 300." D. B. MCNEILL, Cunningham, W. Va.

"I am running 2000 hens and I find **OCULUM** just the thing. Used in feed, it works like a charm." F. C. MITCHELL, Santa Rosa, Cal. Dec. 4, 1915.

A drop a day for each hen in **The Feed**. THAT'S ALL. Trial bottle (240 doses) 10c. BOOKLET FREE.

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Dealers handle it. "**OCULUM**" birds stay well at shows.

S. C. White Leghorns, White Wyandottes, S. C. Reds

LEGHORNS—Boston Winning, 1916—Won 2d Pen, 4th Cock, 3d and 4th Hen. **Gloucester, Mass.**—Won 1st and 2d Cockerels, 1st and 3d Pullets, 2d and 3d Hens, 2d and 3d Cocks, 1st and best Pen in show, also all Shape and Color ribbons.

OUR WYANDOTTES, at Beverly, Mass., won 1st and 3d Cock, 1st Hen, 1st and 2d Pullets, 2d and 3d Cockerels, 1st Pen all Shape and Colors.

OUR REDS, in Essex Co. Egg-Laying Contest, at present stand 2d place, highest individual hen and highest weekly yield to date.

Stock, Eggs and Baby Chicks Ready. We appreciate square dealing, do you?

WILLOW TREE POULTRY FARM Beverly Farms, Mass.

GOLDEN CAMPINES

Again I win at Chicago—1st young Pen; 1st old Pen; 1st Cock and best Display at National Club meet. Write me for prices before you buy stock or eggs. 4 pens headed by a first New York or Chicago winner.

MRS. A. A. CARVER - SEVILLE, OHIO

My Campines are bred on a separate farm, under management of Mr. Whansettler.

Gassmann's White Orpingtons

WINNERS ILLINOIS STATE FAIR, 1915 -- GREATER CHICAGO SHOW, 1916

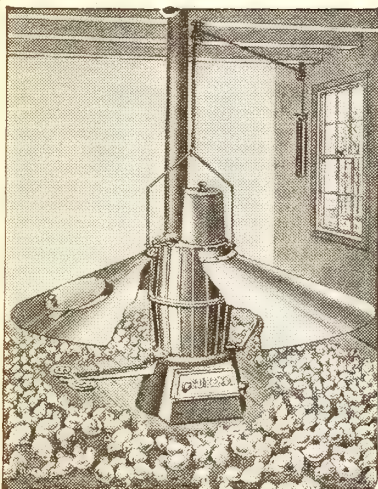
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PRICE-QUALITY-EFFICIENCY
A GREAT COMBINATION

The EUREKA Colony Brooder Stove



Don't be afraid of this stove on account of the price. It is made by a large stove manufacturer and sold on a stove manufacturer's basis of profit. I am satisfied with the low profit, and you get the benefit.

Solid Cast Iron, Two Sizes

\$11.00—15.00

The Stove with the Corrugated Fire-Pot

Why pay double that amount when at this price you can get a stove that is just as efficient and durable as any made.

There is nothing cheap about this stove except the price. I am a large manufacturer of stoves, and there is not a more durable stove made in my foundry at any price.

SPECIFICATIONS

	No. 1 Capacity 500 Chicks	No. 2 Capacity 1,200 Chicks
Height to top of stove.....	20 in.	23 in.
Height to top of magazine.....	26 in.	30 in.
Diameter of cylinder.....	11 in.	12 in.
Diameter of hover.....	42 in.	52 in.

Duplex grate, which stirs up the fire when shaken, and cleans out absolutely.

No dampers in smoke pipe to throw back gas.

Fire regulated by thermostats, which open and close check draft on top of stove.

Magazine on top, which adds to the coal capacity and heating surface.

Bottom of ash pit is raised 3 in. from the floor, and has asbestos board insulation.

Ash-pit door hinged, which prevents breakage and being misplaced; fire-pot is corrugated, which adds to the weight and strength. The stove is self-regulating and requires absolutely no attention, except coaling once in 48 hours and raking once in 24 hours.

The hover has a cast-iron ring on top, which sets firmly on top of stove, and furnished with wire hook, to which pulley may be attached to raise hood.

Burns hard coal or natural gas, as ordered.

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Day Old Chicks — AND — Ducklings

We furnish Pure Bred Chicks and of the finest Quality. We only ship big, strong, healthy Baby Chicks that LIVE, hatched from healthy, vigorous stock. Some 15 varieties of poultry, raised on different farms. Our White and Fawn and White Indian Runner Ducklings are of the best Egg-producing strains. We also do custom hatching. Write for our big Free Illustrated Catalog at once, as this ad may not appear again. Address

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MEADOWLAWN PARTRIDGE ROCKS

Won at Coliseum Show, Chicago, 1915, 4 firsts, 2 seconds, 3 thirds, on 10 entries.
At Michigan State Fair, Detroit, 1915, 4 firsts, 3 seconds, 2 thirds.

We Always Breed All Our Winners. Try our stock.

MEADOWLAWN POULTRY YARDS - Dept. C. D. - SAND CREEK, MICHIGAN
No Sunday Business

REGAL REDS BEST SINGLE COMBS EXCLUSIVELY

They again proved their quality at the big State Show, De Kalb, 1916; won 2nd and 4th young pen, 2nd hen, 5th pullet. Also winners at Freeport, Rockford, Quincy and Galena. Have won at the later shows 9 firsts, 4 shape and color specials and silver cup and numerous seconds, thirds, fourths and fifths. Some choice breeding cockerels for sale at half price. Write for particulars. Fine illustrated egg circular sent on request. Satisfaction guaranteed.

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NIXON'S WHITE WYANDOTTES ARE SUPREME

Experts are buying them, why not you? My winnings at Madison Square Garden, 1915, and my customers' winnings at all the big shows crown them the Father of all Wyandottes. Show and breeding birds always. The greatest offer ever made for the egg trade, by the setting or 1,000 lots. **CHAS. NIXON, Judge and Breeder, Box 2, Washington, N.J.**

S. C. Rhode Island Reds, well filled classes, showing remarkably fine type and color and one of the most talked about exhibits in the show; 24 cocks, 19 hens, 30 cockerels, 30 pullets, 13 pens. R. C. Rhode Island Reds, more "hot" classes, with splendid quality; 14 cocks, 9 hens, 18 cockerels, 15 pullets, 3 pens. Rhode Island Whites, 1 pen. Dorkings, 1 cock, 2 hens.

S. C. Buff Orpingtons, fine in color, size and type; 8 cocks, 8 hens, 12 cockerels, 10 pullets, 6 pens. R. C. Buff Orpingtons, Cuckoo Orpingtons and R. C. White Orpingtons, small classes. S. C. Black Orpingtons, quality excellent; 6 cocks, 1 hen, 7 cockerels, 5 pullets, 1 pen. Blue Orpingtons, 9 cocks, 5 hens, 9 cockerels, 9 pullets, 1 pen. S. C. White Orpingtons, a good exhibit in size, type and color; 7 cocks, 9 hens, 9 cockerels, 9 pullets, 3 pens.



Winner of first Barred Rock pullet and shape special in a very strong class, at Boston, 1916. A bird fully up to Standard. Bred and owned by Bear Brook Poultry Farm, Wakefield, Mass. — P. K. W.

Dark Cornish, a fine exhibit showing excellent quality; 10 cocks, 11 hens, 8 cockerels, 10 pullets, 4 pens. White Cornish show improvement in size and type; 1 cock, 2 hens, 4 cockerels, 6 pullets. White Laced Red Cornish, excellent in markings and type; 2 cocks, 5 hens, 6 cockerels, 6 pullets.

S. C. Brown Leghorns, good classes, with splendid type and color; 8 cocks, 6 hens, 7 cockerels, 5 pullets. R. C. Brown Leghorns, small classes.

S. C. White Leghorns, well filled classes, with excellent quality; 15 cocks, 17 hens, 21 cockerels, 21 pullets, 7 pens. R. C. White Leghorns, classes small, quality good. Buff Leghorns, 4 cocks, 5 hens, 7 cockerels, 6 pullets, 1 pen. R. C. Buff Leghorns, small classes. Black Leghorns, some nice typey birds, with splendid color and good yellow legs; 2 cocks, 5 hens, 8 cockerels, 7 pullets, 1 pen. Blue and Silver Leghorns, small classes of each.

Black Minorcas, a good showing of exceptional quality; 6 cocks, 13 hens, 9 cockerels, 10 pullets, 3 pens. White Minorcas and R. C. Black Minorcas, small classes of good quality.

Blue Andalusians and Black Spanish, small classes with quality excellent.

S. C. Anconas, 4 cock, 4 hens, 11 cockerels, 12 pullets, 3 pens. R. C. Anconas,

2 cocks, 3 hens, 5 cockerels, 6 pullets. White Anconas, small classes.

Houdans, small classes, with good quality. White Houdans, only one in a class. Blue Houdans, two hens shown.

Polish classes small but quality good in W. C. Blacks, Silvers, White, Bearded Golden, Bearded Whites, Bearded Buff Laced, Blues and Frizzles.

The Hamburg exhibits made a quality poultry show of their own with some remarkably fine specimens shown in all classes. Black Hamburgs, 13 cocks, 24 hens, 12 cockerels, 26 pullets, 4 pens. Golden Spangled Hamburgs, 5 cocks, 8 hens, 6 cockerels, 10 pullets, 1 pen. Silver Spangled Hamburgs, as fine a lot of good ones as were ever shown in one exhibition; 12 cocks, 21 hens, 25 cockerels, 28 pullets, 4 pens. Golden Penciled Hamburgs, a strong showing of the "fanciers' fowl;" 2 cocks, 4 hens, 4 cock-



First Black Langshan cockerel and best shaped male, Boston, 1916. Great depth of body and round contour of breast. Bred and owned by Ives, Ives & Ives, Waterford, Conn.

erels, 3 pullets, 1 pen. Small classes of Silver Penciled and White Hamburgs with quality good.

Silver Campines showed in fine strong classes with good quality thruout the ribbons; 8 cocks, 5 hens, 8 cockerels, 9 pullets, 2 pens. Golden Campines, 3 cocks, 3 hens, 7 cockerels, 7 pullets, 2 pens.

Buttercups, small classes which show improvement in type and color. Salmon Faverolles small classes of good quality. Buckeyes, small classes. Game classes well filled and quality good.

Water Fowl classes were excellent and the quality uncommonly good; Pekin Ducks, 29 specimens; Aylesbury Ducks, 8 specimens; Rouen Ducks, 29 specimens; Cayuga Ducks, 22 specimens; Call Ducks, 26 specimens; East Indians, 14 specimens; Crested Ducks, 8 specimens; Muscovys, 39 specimens; Indian Runners, 38 specimens; Blue Swedish Ducks, 8 specimens; with good classes in Wild, Decoy, Buff Orpington Ducks.

Turkey classes included Bronze and White varieties and totaled 56 specimens. Toulouse Geese, 36 specimens; Embden Geese, 40 specimens; Brown Chinese Geese, 22 specimens; White Chinese Geese, 43 specimens; African Geese, 26 specimens; Wild Geese, 14 specimens.

Bantam classes included Black Breasted Red Games, Brown Red Games, Golden Duckwing Games, Silver Duck-

Olle's W. & Partridge Rocks

Winning at the World's Fair, San Francisco, Cal., on Partridge Rocks 1st cockerel, 1st pullet and 3rd pen.

GREAT WIN CHICAGO, JANUARY SHOW, 1916

Won in both varieties more firsts and regular prizes than all our competitors combined. Stock for sale from these great winners. Every bird guaranteed and sold on approval. Pens now mated for the egg trade, headed by our World's Fair and Chicago winners. Get our prices and mating list before buying elsewhere.

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IVANHOE, the Famous Barred Plymouth Rock Cockerel of 1915, shows his superiority by winning first cock and champion Male at Boston, 1916 in a class of 90 males.

Four sons of this noted bird were also in the ribbons at the same show. Three out of six winning cockerels in the open class were Grove Hill birds. At the recent Madison Square show we won three first prizes and special for best display on Single Comb Brown Leghorns, in competition with birds from the far West, Canada and the Central West, in addition to the best birds of the East.

GROVE HILL POULTRY YARDS

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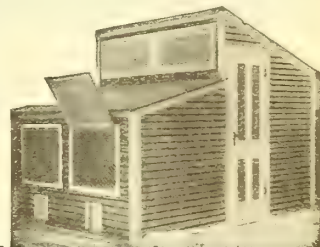
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If you spend the night in a poor bed you can't do as good work next day. If you have your fowls in a make-shift house, they cannot keep in condition for either laying or showing. House your birds properly and you will find the egg yield increasing and your birds looking much better. Proper housing means the "Perfection Way." Write for our catalog, it is free.

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D. W. Young's Strain

3,000 breeders on free farm range; milk fed. Specially bred for winter eggs. Eggs for hatching now ready in any quantity at \$6.00 per 100; 80% fertility guaranteed. Now booking orders for baby chicks, March and April delivery, at \$12.00 per 100. Capacity 12,000 weekly—no order too large. The kind that live if given half a chance. My book, "Profits in Poultry Keeping Solved," shows where the money is, free with all \$10.00 orders. Circular free.

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FRIESNER'S S. C. W. LEGHORNS

EGGS FOR HATCHING AND BABY CHICKS

from prize winners at the Panama-Pacific Exposition, Ohio State Fair and Zanesville, O. Eggs \$1.00 to \$5.00 for fifteen. \$5.00 up per hundred. Special price on Breeding Pens, \$10.00, \$12.50 and \$15.00. Send for mating list. It is free.

J. W. FRIESNER & SON Box C BREMEN, O.

Walker's Barred Rocks

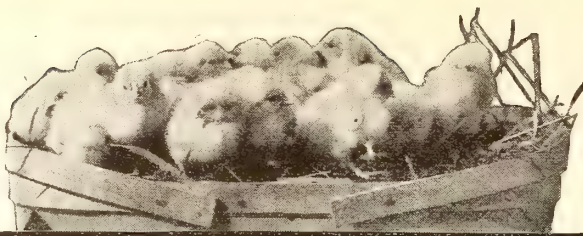
Won Chicago Coliseum December 1915

1st Pullet, 2nd Pullet-mating Pen, 3rd Exhibition Pen at this Show. 1914, won 1st Pullet-mating Pen and 3rd Cockerel-mating Pen and four places in single class at Ill. State Show. Have won the State Barred Rock Cup three years in succession. Have been breeding Barred Rocks for 15 years and feel safe in saying I have the best prospects for show birds this year that I ever had. Write for prices and show records.

G. A. WALKER, POLO, ILLINOIS

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(Signed) Wm. H. Carr
Manager



Poultrymen, take a tip from the experience of this great poultry farm. Winning poultrymen use the best disinfectant to safeguard their flocks. Their hen-houses, coops, pens, runs, roosts are made clean and sweet with Carbola, in solution—applied with brush or sprayer. Incubators, brooders, nests are kept sanitary with it. Their best hatches and comfortable, healthy baby chicks are obtained with the use of germ-killing

CARBOLA

Birds that will thrive and win for you should be protected also by this snow-white mineral paint combined with the most powerful germicide. It is 20 times stronger than carbolic—yet absolutely safe. Makes happy birds and healthier chicks by quickly destroying lice, mites and other parasites. Prevents introduction and spread of roup, cholera, glanders and other contagious diseases. Every poultryman should use Carbola. Once used, always used. At least give it a trial on one of your coops. Send at once for

Trial package—25c—paints and disinfects 300 sq. ft.
10 lbs. (10 gal.) for \$1.00 plus delivery charges
20 " (20 ") " 2.00 delivered
50 " (50 ") " 4.00

Carbola will paint health and sunshine into your whole plant. Easily applied. No chipping or flaking off, as with white-wash. Retains germicidal strength for months. Your dealer will supply you. If not write us. Send for trial package anyway, today.

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wing Games, Red Pyle Games, Birchen Games, White Games, Black Games, Old English Games, White Wyandotte Bantams, Partridge Wyandottes, Mille Fleurs, Silkies, Golden Sebrights, Silver Sebrights, R. C. Blacks, R. C. Whites, Booted Whites, Buff Cochins, Partridge Cochins, White Cochins, Black Cochins, Light Brahmas, Dark Brahmas, Japanese Blacks, Japanese Whites, Bearded White Polish, Buff Polish, Barred Plymouth Rocks, Cornish, White Leghorn, Buff Laced Polish.

The next great Boston Show is scheduled to be held at the Mechanics Building January 10th to 17th, 1917.

Following is a complete list of the awards:

LIGHT BRAHMAS—W. A. Hendrickson, Milton, Mass., 1 cock, 1-4 hen, 5 plt, 1 pen; Harvey C. Wood, Bound Brook, N. J., 2 cock, 5 hen, 1-3 plt, 2-6 pen; George V. Fletcher, Belmont, Mass., 3-6 cock, 2-6 hen, 4 plt, 3-4 pen; Willowbrook Farm, Beverly, Mass., 4-5 cock, 5-6 ckl, 6 plt, 5 pen; Balch & Brown, Manchester, Conn., 3 hen, 2 plt; Dr. Quincy H. Merrill, Dudley, Mass., 1-4 ckl; Frank H. Wildes, Hudson, Mass., 2 ckl; Fred S. Barton, Norwood, Mass., 3 ckl.

DARK BRAHMAS—H. C. Lane, Peterboro, N. H., 1 cock, 1 ckl, 3 plt; Dr. S. Lott, Bellona, N. Y., 2 cock, 1-2 hen, 2 ckl, 1-2 plt; Riverdale Poultry Farm, Riverdale, N. J., 3 ckl.

BUFF BRAHMA—H. C. Merrill, Malden, Mass., 1 pen.

BUFF COCHIN BRAHMAS—Oakland Farm, Taunton, Mass., 1-2-3-5 cock, 1-2-4-6 hen, 1-2-3-6 ckl, 2-3-4-6 plt, 2-3 pen; A. P. Ingram, West Chester, Pa., 4-6 cock, 3-5 hen, 4-5 ckl, 1-5 plt, 1 pen.

PARTRIDGE COCHIN BRAHMAS—Baylies Bros., Taunton, Mass., 1-5 cock, 2-3-4 hen, 2-4-6 ckl, 2-3-5-6 plt, 3 pen; Anna L. Burral, Union City, Conn., 2-4 cock, 1-6 hen, 1-3 ckl, 1-4 plt, 2 pen; Holly Hill Farm, Sea View Mass., 3 cock, 5 hen, 5 ckl, 1 pen; George Guild, Everett, Mass., 6 cock.

BLACK COCHIN BRAHMAS—Orchard Poultry Farm, Spring Grove, Pa., 1 cock, 2 hen, 1-2 ckl, 2-3 plt; W. S. Williams, Whitman, Mass., 2 cock, 1 hen, 3 ckl, 1 plt.

WHITE COCHIN BRAHMAS—H. W. Lacy, Wakefield, Mass., 1 ckl, 1-2 plt.

BLACK LANGSHANS—T. Dickson Smith, Boston, Mass., 1-4 cock, 5-6 hen, 4-6 ckl, 3-5 plt; Ives & Ives, Guilford, Conn., 2 cock, 1 hen, 1 ckl, 1 pen; J. F. Robinson, So. Weymouth, Mass., 3-6 cock, 2-4 hen, 2-3-6 ckl, 1-2-6 plt; Chickatawburt Farm, Canton, Mass., 5 cock, 3 hen, 5 ckl, 4 plt.

WHITE LANGSHANS—Mr. and Mrs. T. E. L. Kemp, Bridgewater, Mass., 3 cock; Mrs. A. J. Roberts, Everett, Mass., 3 hen; Ives & Ives, Guilford, Conn., 1 pen.

BARRED PLYMOUTH ROCKS—Pittsfield Poultry Farms Co., Holliston, Mass., 2 cock, 2-3 hen, 3 plt, 1 pen, 5 plt-bred cock, 1 ckl-bred hen, 6 plt-bred ckl, 2 ckl-bred plt, 1 ckl-bred pen, 1 plt-bred pen; Geo. J. Cunningham, Sag Harbor, N. Y., 6 cock, 6 ckl-bred plt; W. H. Upham, Leominster, Mass., 4 cock; Haldie Nicholson, Leominster, Mass., 5 cock, 5 ckl-bred hen; George A. Bowker, Worcester, Mass., 6 cock, 1 plt-bred cock, 4 ckl-bred hen, 1 ckl-bred plt; C. H. Latham, Lancaster, Mass., 1-4-5-6 hen, 2 plt; W. W. Carpenter, East Providence, R. I., 1-3 ckl, 4 plt, 3 ckl-bred hen, 3 ckl-bred plt, 4 ckl-bred pen; Quimby & Adams, E. Rochester, N. H., 2 ckl; Grove Hill Poultry Yards, Waltham, Mass., 4-5-6 ckl, 5 plt, 2-3 pen, 4 ckl-bred plt, 3 ckl-bred pen, 2 plt-bred pen; Bear Brook Poultry Farm, Wakefield, Mass., 1 plt, 4 plt-bred ckl; Natal L. Divoll, Bellows Falls, Vt., 5 plt, 3 plt-bred cock, 2 ckl-bred hen, 2-3 plt-bred ckl, 5 ckl-bred plt, 2-5 ckl-bred pen; F. W. Proctor, No. Brookfield, Mass., 2 plt-bred cock; Geo. A. Kellogg, W. Hartford, Conn., 4 plt-bred cock; Wm. G. Ward, Fall River, Mass., 6 ckl-bred hen; Fred E. Sherman, Hyannis, Mass., 1 plt-bred ckl.

WHITE PLYMOUTH ROCKS—A. H. Harris, East Pepperell, Mass., 1 cock; Mirimichi Poultry Farm, Foxboro, Mass., 2-4 cock, 1 hen, 5 ckl, 6 plt, 3 pen; Pittsfield Poultry Farm Co., 3 cock, 2-4 hen, 3 ckl, 1 pen; Branford Farms, Grotton, Conn., 5 cock, 3 hen; Samuel Knowles, So. Easton, Mass., 6 cock, 2 ckl, 5 pen; W. F. Hayward, Westboro, Mass., 5-6 hen, 1-4-6 ckl, 1-2-3-4 plt, 2-4 pen; Geo. A. Kellogg, W. Hartford, Conn., 5 ckl; Fair Acres Farm, Millis, Mass., 6 pen; C. W. Pratt, No. Abington, Mass., 5 plt.

BUFF PLYMOUTH ROCKS—C. E. Coffin, Providence, R. I., 1 cock; Eben F. Gay, Norwood, Mass., 2 cock, 5 hen; W. H. Huse, Manchester, N. H., 3 cock; Freier & Lukens, Meriden, Conn., 4 cock, 1-6 hen, 3 ckl, 4-6 plt; Howard S. Blankinship, Marion, Mass., 5 cock, 2 hen; Sunnyside Poultry Farm, Bristol, Vt., 5 ckl, 5-6 ckl; P. W. Noyes, New London, Conn., 3 hen, 3 plt; Albert E. Spargo, Westerly, R. I., 4 hen; Capt. Thos. Rae, Holyoke, Mass., 1 ckl; E. J. Freeman, So. Duxbury, Mass., 2 ckl; Percy E. Jarvis, Marion, Mass., 5 ckl; E. H. Lichtenwalter, Girard, Pa., 1-2 plt; Fair

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None better regardless of price. Big hatches are not the real test. How many chicks live? THAT'S the point.

Gem chicks are always lively and thrive, because our unique system of ventilation conserves the natural egg-moisture. You "old timers" know this is so.

Walls, six-ply, with four layers of insulation. Air-tight doors. Gem is built of cypress, the "wood eternal." Our exclusive Hot-Water Heating System of cold-rolled copper (note that) distributes and equalizes the warmth perfectly. Extra sensitive Double-Wafer Regulator controls temperature absolutely. Removable Chick Trays make thorough cleaning easy. Flush top—no obstructions—handy for turning eggs, etc. Many more desirable and exclusive features explained fully in big handsome free catalogue. Get it; also our special offer, and "How To Buy an Incubator," and save money. Write today



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"Lice are as common to chickens as fleas to a dog."—LEE'S "COMMON SENSE CHICKEN TALK"

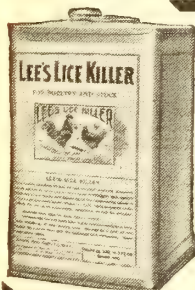
I have many times gone into poultry yards, whose owner said, "My hens have no lice," and taken from 100 to 500 lice from one hen, using Lee's Lice Killer. Lousy hens don't lay well. Lousy parent stock bring weakly fertile eggs and sickly chicks. Lice and mites seek the warm bodies during winter and in spring will travel a mile to get at young chicks. Clean up and urge your neighbor to clean up, now. With Lee's Lice Killer there is no dusting, dipping, greasing or handling. Simply painted or sprayed on roosts, etc. It kills both by vapor and by contact. It gets the lice on the bodies of chickens roosting over it, also the insects causing "scaly leg," also the mites and lice about the roosting places.

The Lee products—Lice Killer, Germozone, Egg Maker, etc., are sold by dealers most everywhere, generally one dealer at each town. Full particulars, catalogue, poultry book and name of nearest agent sent free on request. Write today.

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Omaha, Nebraska



Acres Farms, Millis, Mass., 5 plt, 1 pen.

PARTRIDGE PLYMOUTH ROCKS—Geo. H. Hendry, Mattapan, Mass., 1 cock; Paul Klingbeil, Walpole, Mass., 2 cock, 4 ckl, 4 plt, 3 pen; Glenwood Farm, West Mansfield, Mass., 3 cock, 3-4 hen, 2-3-6 ckl, 1-3 plt, 1 pen; J. F. Mackay, Bordentown, N. J., 4-6 cock, 2-6 plt, 2 pen; C. A. Brown, Apponaug, R. I., 5 cock; L. Faye Howe, Mansfield, Mass., 1 hen; Allen Bros., Sanford, Me., 2 hen; Frank O. Shepardson, Mansfield, Mass., 5-6 hen, 5 ckl; Samuel J. Childs, McKeesport, Pa., 1 ckl; Mrs. W. P. Taylor, Beverly, Mass., 5 plt.

SILVER PENCILED PLYMOUTH ROCKS—J. F. Mackay, all 1st; B. P. Crocker, Foxboro, Mass., 3 ckl, 2-3 plt.

COLUMBIAN PLYMOUTH ROCKS—August Reinhart, Quincy, Mass., 1 cock, 3 plt; Howard M. Munroe, Lexington, Mass., 2 cock, 1 hen, 1 ckl, 1 plt, 1 pen; Crosby & Smith, Littleton, Mass., 3 cock, 2 hen, 2-3 ckl, 2-4-5 plt.

SILVER WYANDOTTES—R. G. Williams, Barre, Mass., 1-2 cock, 1-2-3 hen, 1-2-4 ckl, 1-2-3 plt, 1 pen; Terry & Ladd, Brockton, Mass., 3 cock, 4 hen, 3 ckl, 4-5 plt; Gould Shaw, Newton Center, Mass., 5 hen; F. W. Sawyer, Woburn, Mass., 5 ckl; James A. Ring, Quincy, Mass., 2 pen.

GOLDEN WYANDOTTES—Albert Fletcher, Jr., Warrentown, Va., 1-5 cock, 6 plt; Loren H. Brown, Lunenburg, Mass., 2-4 cock, 1-2-3 hen, 1-2 ckl, 1-2-3 plt, 1 pen; Mark E. Johnson, Atlanta, Ga., 3 cock, 5-6 hen; O. P. Chase, Andover, Mass., 6 cock, 4 hen, 3-4 ckl, 4-5 plt.

WHITE WYANDOTTES—J. W. Andrews, Dighton, Mass., 1-5 cock, 1-2 hen, 1-4 ckl, 2-3-5 plt, 1 pen; Geo. H. Pollard, Greenbush, Mass., 2 cock, 3 hen, 6 ckl; W. H. Williams, Plainfield, N. J., 3 cock; The White Wyandotte Poultry Yards, Westborough, Mass., 4 cock, 6 hen, 1-4-5 plt, 4 pen; Fernbrook Farm, Albany, N. Y., 6 cock, 5 hen, 2 pen; Josef Jahnie, Natick, Mass., 4 hen, 3 pen; Mirimichi Poultry Farm, 2 ckl, 5 pen; A. M. Haven, Mansfield, Mass., 3 ckl; C. H. Wheelock, Weston, Mass., 5 ckl; Glenwood Poultry Farm, Syracuse, N. Y., 6 pen.

BLACK WYANDOTTES—Jas. L. Austin, Stoughton, Mass., 1 cock, 1 hen, 1 ckl, 1 plt.

BUFF WYANDOTTES—Andrew Riddell, Greenwich, N. Y., 1-5 cock, 3-6 hen, 1 ckl, 3 pen; G. Arthur Cook, Easthampton, Mass., 2-4 cock, 4 hen, 4-5 plt; C. E. Coffin, 3 cock, 3 ckl, 1 plt, 2 pen; Fred Rockwood, So. Brookline, N. H., 6 cock, 1 hen, 2-4-6 ckl, 2-3 plt, 1 pen; J. H. Clark, West Pawlet, Vt., 2 hen, 6 plt, 5 pen; C. O. Smith, Woonsocket, R. I., 5 hen; King & Whiting, Plainville, Mass., 5 ckl; Dr. N. W. Sanborn, Holden, Mass., 4 pen.

PARTRIDGE WYANDOTTES—Sheffield Farm, Glendale, O., 1-2-3 cock, 2-3-4 hen, 1-2-3 ckl, 1-2-3 plt, 1-2 pen; A. G. Thompson, Franklin, N. H., 4 cock, 5-6 ckl, 6 plt; Robert J. Abbott, Antri, N. H., 5 cock, 6 hen, 4 ckl, 5 plt; D. S. Strong, Middle Haddam, Conn., 1-5 hen, 4 plt.

SILVER PENCILED WYANDOTTES—Horace Havemeyer, Stamford, Conn., 1 cock, 3-4-5 hen, 1-3-4 ckl, 3-4-5 plt, 3 pen; F. W. Rogers, Montello, Mass., 1-2 hen, 2 ckl, 1-2 plt, 2 pen; A. L. Hathaway, Abington, Mass., 1 pen.

COLUMBIAN WYANDOTTES—Ralph Woodward, Grafton, Mass., 1-2 cock, 2 hen, 1-2 plt, 3 pen; C. C. Smith, Vineyard Haven, Mass., 3 cock, 5 hen; W. W. Welch, Milford, N. H., 4-5 cock; H. L. Freeman, 1 hen, 3-4 plt; E. N. Huntress, Pittsfield, Mass., 3 hen; James A. Brackett, Milton, Mass., 4 hen; Geo. H. Simmons, Whitman, Mass., 1-2-4 ckl; Jas. E. Perkins, W. Stoughton, Mass., 3 ckl, 2 pen; J. P. Keating, West-

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in poultry yard and showroom. Infuse into it winning Wilburtha blood. Our birds are bred to lay, to pay, and to win. Our strains have been improved to the highest degree, for utility and show purposes, by careful selection, mating, and every good practice known to us, as experts of many years' experience. Nowhere have we spared a dollar or an ounce of labor to attain the highest standard. Every feature of our model plant contributes to the health and excellence of our winning birds—from the best type of buildings, to the best disinfectant to keep them bright and sanitary. Fine birds, well cared for, win for us. They will win for you, too. Pay us a visit and make your own selection of the famous

Wilburtha S. C. White Leghorns

—perhaps the greatest of our strains. Over 3000 birds, choicest specimens, both male and female. Bred for utility and exhibition purposes. Large, early maturing, and heavy layers. Chicks mature rapidly. Excellent table birds at exceptionally early age. Our S. C. Whites are always in the ribbons. They won at

Palace
Cock 1-3 Cockerel 1-2
Hen 2 Pullet 4-5
Pen 1-3

Madison Sq. Gardens
Cock 4 Cockerel 4
Pullet 3
Pen 3

Wilburtha S. C. Buff Leghorns

are a source of pride to us, and of profit to the many buyers of this splendid strain. They are exceptionally fine specimens of a great utility breed—and show-winners of merit, too. This year they won at

Palace
Cock 3 Cockerel 4
Hen 3 Pullet 4
Pen 2

Madison Sq. Garden
Cock 2-5
Hen 3
Pen 2

Wilburtha Columbian Wyandottes

are noted as wonderful egg layers, and for great size and the excellent quality of their flesh. No where can you get better all round quality in this splendid breed than from our farms. They have an enviable show record this year, too, at

Palace
Cock 1-5 Hen 1
Pullet 5
Pen 3

Madison Sq. Garden
Cock 1 Cockerel 5
Hen 1-2 Pullet 3
Pen 1

Wilburtha Col. Ply. Rocks

are unusual general purpose fowls. Rapid growers. Good layers. A superior strain where large brown eggs are the market's favorite. A highly satisfactory breed—and Wilburtha has the premium flock. See our winnings this year at

Palace
Cock 1-2 Cockerel 3-4
Hen 3 Pullet 1-3
Pen 1

Madison Sq. Garden
Cock 3-4 Cockerel 1-3
Hen 3 Pullet 2-5
Pen 1

Wilburtha S. C. R. I. Reds

—a breed to which we are giving special attention. Ours is a likely strain, and is making good. We have some splendid specimens of both sexes, at attractive prices. We did not show them at the Palace or Garden this year.

Eggs For Hatching

selected with the greatest care, and rigidly inspected for uniformity and fertility, are sold under our liberal guarantee. Order these and be sure of a good hatch. You do not experiment when you start with our hatchings, eggs or baby chicks.

Baby Chicks

of all our famous strains are ready. These hustling day-olds are from pens carefully mated for best results. Behind them is the remarkable record of older Wilburtha birds. Lively, vigorous—they give assurance of a valuable future. We have also chicks from special matings, at attractive prices.

Make this a season of improvement and greater profits—in table eggs or birds, quality matings, better hatches, winnings at the shows. Wilburtha birds are making greater profits for us, and for our hundreds of customers. They will make good for you. Don't fail to get in touch with us before you buy. Our new mating list is ready. Send for it and our handsome catalog today.

Wilburtha
POULTRY FARMS

Chas. J. Fisk
Owner

Box
J

Trenton Junction, New Jersey

Fresh Air for Chicks

Automatic Regulation

Fresh air passes thru Feeder and is warmed before it reaches the chicks. Thermostat automatically opens or closes fresh air inlet, allowing air to pass in only when temperature is right or too high. It keeps the fire burning on warm days, and makes the chicks thrive and grow. Write for circular, Dept. 2, MACKAY COLONY BROODER CO., Lock Box 182, Syracuse, N. Y.

USE WITH ANY
BROODER

\$3





"LADY RED"

Record 243 Eggs

Single Comb Rhode Island Reds Trap-Nested—Bred for Laying

I have undoubtedly one of the finest and best flocks of Reds in Eastern Pennsylvania, and can supply you with eggs and high class breeding stock from our trap-nested Reds of quality. We guarantee safe delivery of eggs and will replace all infertile eggs if returned to us ten days after received, express paid. Send for price list.

Eggs, \$2, \$3 and \$5 per 15; \$10 and \$15 per 100.

CHESTER COUNTY POULTRY FARM, R. D. No. 3, Box 6, POTTSTOWN, PA.

Want Any? Single Comb WHITE LEGHORN PULLETS

I have 200 to sell, all well bred; in lots of 5, \$2.50 each; lots of 10, \$2 each; 10 to 25, \$1.75; 50 or more, \$1.50 each.

These Birds are Real Bargains

D. LINCOLN ORR, Box 5, ORR'S MILLS, N. Y.



White Wyandotte Farms

have furnished first prize winners at some of the best shows in America this season, and wish to extend to you our services and experience as expert breeders of White Wyandottes for the past 23 years. Stock and eggs of the highest quality for sale.

OSCAR L. BOCK, Prop. Box 1 COUNCIL BLUFFS, IOWA

PALMER'S BARRED ROCKS

Considered the greatest Chicago winners by their unparalleled victories almost every year for the past fifteen years. Our latest victory at the great Illinois State Show against some of the greatest birds in the West, winning three out of five champions, four firsts, two seconds, three thirds, three fourths and one fifth, with four specials and best display. Barred Rocks will go down in history as one of the greatest wins any Barred Rock exhibitor ever made at a State Show. Write for our bargain sales sheet and new free illustrated catalog. If you are looking for show birds, breeding birds, pullet bred or cockerel bred, single or in pairs, trios or pens, we can furnish you them at prices that will be a surprise to you. Remember, we not only ship on approval but will guarantee them to please and breed to your satisfaction. Write us; stating what you want, and we feel certain we can please you. Nearly every breeder in the West has been our customer. If we can please them, we can please you. Write us today. D. F. Palmer & Son, Box 35, Yorkville, Ill.

Howison's Buff Wyandottes

Another Great Winning at Greater Chicago Show. State branch of American Buff Wyandotte Club Meet. 1st Cock, class of 19 cock birds; shape and color special and champion male. 1st old Pen, 3d young Pen, 3d and 4th Hen, 2d Pullet, 3d Cockerel. Club Association cup for best display in class of 113 birds. Silver cup for best cock, hen, cockerel and pullet. A few eggs to spare from prize winning pens.

CHAS. HOWISON - Box 20 - SANDWICH, ILLINOIS

S. C. Wh. Leghorns BABY CHICKS

Our stock is noted for large size and heavy egg production. We can supply you with chicks from 200-egg layers at \$14.00 per 100. Eggs \$6.00 per 100.

JOSEPH STENZ & SON : FOND DU LAC, WIS.

BUTTERCUPS

If you are looking for the best, we can supply you. Prices are very reasonable, quality considered. At Greater Pittsburg Show, 1916, we made but the one entry and won 1st pen. The male bird of this pen was pronounced by several judges to be the finest specimen they had handled this year. Stock and eggs; write for prices.

D. J. WHITE - 1222 Patton Street - Wilkinsburg, Pa.

LEE'S COLUMBIAN Wyandottes

LEO. A. LEE

Win at World's Panama-Pacific Exposition,
St. Louis, and Greater Chicago Show

A few choice cockerels at reasonable prices.

Eggs from winners \$5 per fifteen.

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CHICAGO, ILLINOIS

ROSE COMB WHITE MINORCAS

MADISON SQUARE GARDEN winners, 1916, 3 Firsts, 1 second with 4 birds. GREAT LAYERS. Fine table fowls. A few grand birds for sale. G. H. Chase, (Ulster Co.) Highland, N. Y.

boro, Mass., 5 ckl; Gilbert Poultry Farm, Haverhill, Mass., 1 pen.

BLACK JAVAS—Morton & Gregory, Albany, N. Y., 1 hen, ckl, plt.

ANY OTHER VARIETY JAVAS—Morton & Gregory, 1 cock, hen, plt.

AMERICAN DOMINIQUES—Neal Litchfield, Freeport, Me., 1 cock, 3-4 hen, 4-5 ckl, 3-5-6 plt; C. W. Besse, Jefferson, Me., 2-4 cock, 1-2 hen, 1-2-3 ckl, 1-2-4 plt, 1 pen; J. R. Hoard, Taunton, Mass., 3 cock, 5 hen.

S. C. RHODE ISLAND REDS—Rock Ledge Farm, Southboro, Mass., 1 cock; P. O. Mitchell, Northboro, Mass., 2 cock; Elmer F. Benson, Whitman, Mass., 3 cock; Red Feather Farm, Tiverton Four Corners, R. I., 4-6 cock, 1 hen, 3 pen; Harold P. Gurney, Whitman, Mass., 5 cock; Wm. C. Stephens, Foxboro, Mass., 2-3 hen, 1-2 plt; Owen Farms, Vineyard Haven, Mass., 4-5 hen, 3 ckl, 6 plt, 2-5 pen; Mirimichi Poultry Farm, 6 hen, 4-6 ckl; E. F. Benson, Whitman, Mass., 1 ckl; Harry E. Thomas, Milford, Mass., 2 ckl, 3 plt; E. W. Cunningham, Exeter, N. H., 5 ckl, 4 plt; Spring Farm Poultry Co., Littleton, Mass., 5 plt, 1-6 pen; Geo. F. Zwicker, East Bridgewater, Mass., 4 pen.

R. C. RHODE ISLAND REDS—J. S. Dimond, Franklin, N. H., 1-5 cock, 5 plt; Payne Bros., Portland, Conn., 2-4 cock, 2-6 hen, 2-4-5 ckl, 6 plt, 1-3 pen; A. Eugene Alden, W. Bridgewater, Mass., 3 cock, 1-5 plt; C. M. Beldon, Natick, Mass., 6 cock; Red Feather Farm, 1-4-5 hen, 1-3-6 ckl, 4 plt, 2 pen; Frank Langford, Marco, Fla., 3 hen; House Rock Poultry Farm, E. Weymouth, Mass., 2 plt.

RHODE ISLAND WHITE—Frank C. Wright, No. Amherst, Mass., 1 pen.

COLORADO DORKING—J. R. Crispin, Magnolia, Mass., 1 hen.

S. C. BUFF ORPINGTONS—Owen Farms, 1-3-5 cock, 2-3 hen, 1 ckl, 1-2-3 plt, 1-4 pen; Geo. E. Bessom, Mansfield, Mass., 2 cock, 6 pen; A. M. Bardwell, 4-6 cock, 1-4-5 hen, 2 ckl, 4-5 plt, 2-3 pen; Mrs. E. S. Everett & Son, No. Attleboro, Mass., 6 hen, 3 ckl; Edward J. Goodhue, E. Braintree, Mass., 4 ckl; John B. Dion, 5-6 ckl; Lexington Orpington Yards, Lexington, Mass., 6 plt.

R. C. BUFF ORPINGTON—Harry E. Taylor, 1 ckl.

S. C. BLACK ORPINGTONS—C. S. Purdy, Stamford, Conn., 1-3 cock, 1 hen, 1-2-3-4-5-6 ckl, 1-2-3-4-5 plt, 1 pen; E. W. Purdy, New Bedford, Mass., 3 cock; A. R. Sullivan, Hanover, N. H., 4 cock; Mrs. E. S. Everett & Son, 5 cock; Leonard Hinds, Attleboro, Mass., 6 cock.

BLUE ORPINGTONS—Haldie Nicholson, Leominster, Mass., 1-5-6 cock, 3-4 hen, 1-3-6 ckl, 2-3-4 plt, 1 pen; Mrs. A. J. Roberts, Everett, Mass., 2 cock; Chas. T. Wells, Chester, N. H., 3 cock, 5 ckl; C. P. Sheehy, East Wareham, Mass., 4 cock, 1-2 hen; A. H. Whittaker, No. Attleboro, Mass., 5 hen, 1 ckl, 1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100-101-102-103-104-105-106-107-108-109-110-111-112-113-114-115-116-117-118-119-120-121-122-123-124-125-126-127-128-129-130-131-132-133-134-135-136-137-138-139-140-141-142-143-144-145-146-147-148-149-150-151-152-153-154-155-156-157-158-159-160-161-162-163-164-165-166-167-168-169-170-171-172-173-174-175-176-177-178-179-180-181-182-183-184-185-186-187-188-189-190-191-192-193-194-195-196-197-198-199-200-201-202-203-204-205-206-207-208-209-210-211-212-213-214-215-216-217-218-219-220-221-222-223-224-225-226-227-228-229-230-231-232-233-234-235-236-237-238-239-240-241-242-243-244-245-246-247-248-249-250-251-252-253-254-255-256-257-258-259-260-261-262-263-264-265-266-267-268-269-270-271-272-273-274-275-276-277-278-279-280-281-282-283-284-285-286-287-288-289-290-291-292-293-294-295-296-297-298-299-300-301-302-303-304-305-306-307-308-309-310-311-312-313-314-315-316-317-318-319-320-321-322-323-324-325-326-327-328-329-330-331-332-333-334-335-336-337-338-339-340-341-342-343-344-345-346-347-348-349-350-351-352-353-354-355-356-357-358-359-360-361-362-363-364-365-366-367-368-369-370-371-372-373-374-375-376-377-378-379-380-381-382-383-384-385-386-387-388-389-390-391-392-393-394-395-396-397-398-399-400-401-402-403-404-405-406-407-408-409-410-411-412-413-414-415-416-417-418-419-420-421-422-423-424-425-426-427-428-429-430-431-432-433-434-435-436-437-438-439-440-441-442-443-444-445-446-447-448-449-450-451-452-453-454-455-456-457-458-459-460-461-462-463-464-465-466-467-468-469-470-471-472-473-474-475-476-477-478-479-480-481-482-483-484-485-486-487-488-489-490-491-492-493-494-495-496-497-498-499-500-501-502-503-504-505-506-507-508-509-510-511-512-513-514-515-516-517-518-519-520-521-522-523-524-525-526-527-528-529-530-531-532-533-534-535-536-537-538-539-540-541-542-543-544-545-546-547-548-549-550-551-552-553-554-555-556-557-558-559-560-561-562-563-564-565-566-567-568-569-570-571-572-573-574-575-576-577-578-579-580-581-582-583-584-585-586-587-588-589-590-591-592-593-594-595-596-597-598-599-600-601-602-603-604-605-606-607-608-609-610-611-612-613-614-615-616-617-618-619-620-621-622-623-624-625-626-627-628-629-630-631-632-633-634-635-636-637-638-639-640-641-642-643-644-645-646-647-648-649-650-651-652-653-654-655-656-657-658-659-660-661-662-663-664-665-666-667-668-669-670-671-672-673-674-675-676-677-678-679-680-681-682-683-684-685-686-687-688-689-690-691-692-693-694-695-696-697-698-699-700-701-702-703-704-705-706-707-708-709-710-711-712-713-714-715-716-717-718-719-720-721-722-723-724-725-726-727-728-729-730-731-732-733-734-735-736-737-738-739-740-741-742-743-744-745-746-747-748-749-750-751-752-753-754-755-756-757-758-759-760-761-762-763-764-765-766-767-768-769-770-771-772-773-774-775-776-777-778-779-780-781-782-783-784-785-786-787-788-789-790-791-792-793-794-795-796-797-798-799-800-801-802-803-804-805-806-807-808-809-810-811-812-813-814-815-816-817-818-819-820-821-822-823-824-825-826-827-828-829-830-831-832-833-834-835-836-837-838-839-840-841-842-843-844-845-846-847-848-849-850-851-852-853-854-855-856-857-858-859-860-861-862-863-864-865-866-867-868-869-870-871-872-873-874-875-876-877-878-879-880-881-882-883-884-885-886-887-888-889-890-891-892-893-894-895-896-897-898-899-900-901-902-903-904-905-906-907-908-909-910-911-912-913-914-915-916-917-918-919-920-921-922-923-924-925-926-927-928-929-930-931-932-933-934-935-936-937-938-939-940-941-942-943-944-945-946-947-948-949-950-951-952-953-954-955-956-957-958-959-960-961-962-963-964-965-966-967-968-969-970-971-972-973-974-975-976-977-978-979-980-981-982-983-984-985-986-987-988-989-990-991-992-993-994-995-996-997-998-999-1000-1001-1002-1003-1004-1005-1006-1007-1008-1009-1010-1011-1012-1013-1014-1015-1016-1017-1018-1019-1020-1021-1022-1023-1024-1025-1026-1027-1028-1029-1030-1031-1032-1033-1034-1035-1036-1037-1038-1039-1040-1041-1042-1043-1044-1045-1046-1047-1048-1049-1050-1051-1052-1053-1054-1055-1056-1057-1058-1059-1060-1061-1062-1063-1064-1065-1066-1067-1068-1069-1070-1071-1072-1073-1074-1075-1076-1077-1078-1079-1080-1081-1082-1083-1084-1085-1086-1087-1088-1089-1090-1091-1092-1093-1094-1095-1096-1097-1098-1099-1100-1101-1102-1103-1104-1105-1106-1107-1108-1109-1110-1111-1112-1113-1114-1115-1116-1117-1118-1119-1120-1121-1122-1123-1124-1125-1126-1127-1128-1129-1130-1131-1132-1133-1134-1135-1136-1137-1138-1139-1140-1141-1142-1143-1144-1145-1146-1147-1148-1149-1150-1151-1152-1153-1154-1155-1156-1157-1158-1159-1160-1161-1162-1163-1164-1165-1166-1167-1168-1169-1170-1171-1172-1173-1174-1175-1176-1177-1178-1179-1180-1181-1182-1183-1184-1185-1186-1187-1188-1189-1190-1191-1192-1193-1194-1195-1196-1197-1198-1199-1200-1201-1202-1203-1204-1205-1206-1207-1208-1209-1210-1211-1212-1213-1214-1215-1216-1217-1218-1219-1220-1221-12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E. Terry, Fitchburg, Mass., 4 hen; J. N. Hazlett, Marianna, Pa., 1 pit; J. W. Harvey, Catonsville, Md., 2 pen.

WHITE CORNISH—J. W. Towney, Montgomery, Pa., 1 cock, 2 hen; Frank Brown, Marblehead, Mass., 1 hen, 2 ckl, 3 pit; Albert W. Dodge, Wenham, Mass., 1 ckl, 1 pit; F. H. Howland, Worcester, Mass., 3-4 ckl; F. H. Howland, Worcester, Mass., 3-4 ckl, 2-4 pit.

WHITE LACED RED CORNISH—F. C. Burbank, Sandwich, Conn., 1 cock, 3-4 hen, 1 ckl, 3 pit; Bliss & Wheeler, Clinton, Conn., 2 cock, 1-5 hen; W. H. Card, Manchester, Conn., 2 hen, 3-4-5-6 ckl, 2-4-5 pit; M. K. Thomas, 2 ckl, 1 pit.

S. C. BROWN LEGHORNS—Henry W. Weeks, Framingham Center, Mass., 1-2-3-4 cock, 2-3-4-5 hen, 4-5 ckl, 2-3-5 pit; Harold B. Dorman, Bridgeport, Conn., 5-6 cock; C. Sydney Cook, Jr., West Newton, Mass., 1 hen, 1 ckl, 1-4 pit; Nathan R. Hartford, Bourne, Mass., 2 ckl; E. G. Runnels, Concord, N. H., 3-6 ckl.

R. C. BROWN LEGHORNS—Nathan B. Harford, 1 ckl; C. P. Jones, Providence, R. I., 1 pit.

S. C. WHITE LEGHORNS—W. H. Williams, Plainfield, N. J., 1-2 cock, 1-2-5-6 hen, 3-4-5-6 ckl, 1-4-6 pit, 4-5 pen; Owen Farms, Vineyard Haven, Mass., 3-5-6 cock, 1-2 ckl, 2-3-5 pit; 1-3-6 pen; Henry P. McKean, Jr., Beverly Farms, Mass., 4 cock, 3-4 hen, 2 pen.

R. C. WHITE LEGHORNS—Turtle Point Farm, Saratoga Springs, N. Y., 1 cock, 1 hen, 1 ckl, 1 pit; Howard D. Newton, Leominster, Mass., 2 cock.

S. C. BUFF LEGHORNS—Miss A. P. Wilcox, Mystic, Conn., 1 cock, 1-5 hen, 1-2-3 ckl, 1-3 pit, 1 pen; Dr. J. E. Webster, Peabody, Mass., 2-3-4 cock, 2-3-4 hen, 4-5-6 ckl, 4-5-6 pit; C. I. Davis, Waterville, Me., 2 pit.

R. C. BUFF LEGHORNS—J. E. Skellie, Cambridge, N. Y., 1 cock, 1 hen, 1 ckl, 1 pit; M. H. Willis, Brattleboro, Vt., 2 cock.

S. C. BLACK LEGHORNS—Turtle Point Farm, 1 cock, 1-2 hen, 1-3-4 ckl, 1-2-3-4 pit, 1 pen; John T. Kelleher, Springfield, Mass., 2 cock, 4 hen, 6 ckl; R. G. McAndrew, Dorchester, Mass., 3 hen, 5 ckl; John MacKenzie, Milton, Mass., 5 hen, 2 ckl, 5-6 pit.

BLUE LEGHORNS—Copeland & Richards, Dexter, Me., 1 cock, 1 hen, 1 ckl, 1 pit; M. B. Person, Leominster, Mass., 2 pit.

SILVER LEGHORNS—Turtle Point Farm, 1 cock, hen, ckl, pit.

S. C. BLACK MINORCAS—Dr. B. J. Hovestadt, Boston, Mass., 1 cock, 4-5 hen, 5 pit; Pratt Poultry Experiment Sta., Morton, Pa., 2 cock, 1-3 hen, 2-3-5 ckl, 1-3 pit, 1 pen; L. S. Sherman, Pittsfield, Mass., 3 cock; Chas. Gould, Glencoe, Ont., Canada, 4-5 cock, 2 hen, 1-4 ckl, 2-4 pit, 2 pen; R. E. Coolidge, Hudson, Mass., 3 pen.

WHITE MINORCAS—Mrs. A. J. Roberts, 1 hen.

R. C. BLACK MINORCAS—Pratt Poultry Experiment Sta., 1-2 cock, 1-2 hen, 2 ckl, 1-2 pit; Stuart & Magee, Bristol, R. I., 3 cock, 4 hen, 1 ckl; James A. L. Conway, Malden, Mass., 4 cock, 3 hen, 3 ckl.

BLUE ANDALUSIANS—John McKibbin, Willoughby, O., 1 cock, 1-2-3 hen; E. D. Bird, Greenwich, Conn., 2 cock, 4-5 hen, 2-3 ckl, 1-2 pit, 2 pen; L. S. Hood, Taunton, Mass., 3 cock; Jas. K. Clement, Wayland, Mass., 1 ckl; W. T. Naylor, Painesville, O., 1 pen.

BLACK SPANISH—Walter T. Remieur, Bristol, R. I., 1 ckl, 1 pit; Mr. and Mrs. T. E. L. Kemp, Bridgewater, Mass., 2 ckl.



WILLIAM THE CONQUEROR
One of our Prize Winners

TENACRE

S. C. WHITE LEGHORNS

Exhibition and Utility

Our Recent Winnings

TRENTON	PHILAD'PHIA	ELIZABETH	UTILITY
1st Cock; 1-2 Cock's; 1-2-3-4 Hen; 1-2 Pen; 1-2-3 Pullet and several Specials.	2nd Cock 3d and 4th Hen	1st Cockerel 2d Cock 1st, 3d Pullet 2d Hen, 2d Pen.	A few choice pullets now in full lay. Early hatch Breeding Cockerels of excellent type, at reasonable prices

BOOK YOUR ORDERS EARLY FOR

HATCHING EGGS and BABY CHICKS in SEASON

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TENACRE POULTRY FARM, R. F. D. No. 3, PRINCETON, N. J.

COBURN'S RED SUSSEX FARM'S

RED AND SPECKLED SUSSEX

Matings, 1916. THE BEST EVER

Pens headed by and containing **New York and Chicago Sussex Club Championship** and Blue ribbon winners; in competition met England's best Sussex—and we raise 'em.

**Choice Settings and Eggs in
50 and 100 lots**

**Extra Values in Cockerels,
Trios and Pens**

State plainly your wants in first letter—Address changed from Marysville to

H. H. & E. M. COBURN'S RED SUSSEX FARM, Route 3, ST. CLAIR, MICHIGAN
Phone: PORT HURON 668-F22

Lady Eglantine

VELVETVISE FILLERS,

the \$100,000 hen has purchased her 1916 supply of Hatching Egg Boxes from us, also Coops with which to ship her brothers and sisters.

with a velvet touch, viselike grip, saving the wrapping of Hatching Eggs.

SHIPPING COOPS. Steel top, bottom and corner irons, heavy fibre board sides, easily opened, closed and cleaned, no nails or tape. Will last for years; gives distinction to the birds; made in five sizes. Small size, 12x16x18, 50c f. o. b. factory.

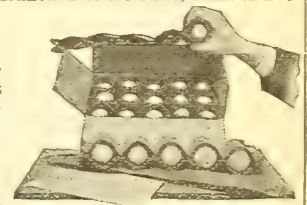
**ONE QUART FIBRE SANITARY DRINKING
FOUNTAINS AND FEEDERS.** 75 cents per dozen.

BABY CHICK BOXES, easily put together, positive air with out drafts, can be regulated for any time of the year, chicks cannot crowd, keeps them moving, arrive at destination healthy and strong. Sample, small size, postpaid, 20 cents.

HATCHING EGG BOXES. Constructed of one piece except pads, equipped with Velvetvise Fillers. Sample, small size, postpaid, 20c. Write for circular. Address, Department B.

HARTLEY STEEL CRATED BOX CO.

SAGINAW, MICH.



Schlosser's Single Comb White Leghorns

BRED FOR COMMERCIAL EGG PRODUCTION

Get our reasonable prices on Fertile Hatching Eggs and Vigorous Baby Chix. Free Catalog.

A. H. SCHLOSSER & SON Box A-196 DAVENPORT, IOWA

Sterling Strain Rhode Island Reds

COCKERELS that will WIN and BREED winners. Sired by our Illinois State Show, Peoria and Cedar Rapids Blue Ribbon Winners. Fifty extra choice birds for sale Also choice Cocks. Prices right. From heavy layers.

BABY CHICKS! :: We ship only strong chicks and fertile eggs that hatch. :: **EGGS, EGGS!**

STERLING POULTRY FARM

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STERLING, ILLINOIS

Porter's Golden Buff Orpingtons

Winners at Chicago, Springfield and Peoria. On one Pen entry, Chicago, Dec. 1915, won fourth, competing against Buffs purchased at a long price. Every bird in this pen bred and raised by me. Solid Buff males at \$5.00. Big, husky, utility Cockerels, \$2.00. Write me what you need. Quality and Price right. Catalog free.

A. B. PORTER - Box 4 - LA SALLE, ILLINOIS

WM. ROBERTS

ROBERTS' S. C. WHITE LEGHORNS FOR WINTER EGGS—Eventually

Booking orders now, for Eight weeks old pullets, Hatching Eggs and Baby Chicks. Roberts Poultry Farm Grandville, Mich.



Start Right

There Will Be No Bowel Trouble When Feeding

Blatchford's Milk Mash

Raise 100% Hatch in Record Time

Don't take chick chances. After they are five weeks old, add 10% fresh corn-meal to the mash and you have the best growing food made, and you make it.

Ask us how to get 32% increased weight on your Spring Chickens in 12 days. It's a simple matter.

For sale at all dealers on

**Blatchford
Calf Meal Factory
Waukegan Illinois**

S. C. ANCONAS—C. A. Martin, Derry, N. H., 1-3 cock, 2-4 hen, 5 ckl, 3-5 plt, 1 pen; Wood & Newman, Mansfield, N. J., 2 cock, 3 hen; L. C. Strang, East Weymouth, Mass., 4 cock, 1 hen, 4 ckl; Chester P. Dodge, Rockport, Mass., 1-2 ckl, 1 plt, 2-3 pen; H. H. Glosser, Fort Plain, N. Y., 3 ckl, 4 plt; Edward Rich, Springfield, Mass., 2 plt.

R. C. ANCONAS—L. S. Strang, 1-2 cock, 1 hen, 3 ckl, 3 plt; George Burnell, Arlington Heights, Mass., 2 hen, 2 ckl; Carl L. Sturgis, E. Bridgewater, Mass., 3 hen, 4-5 ckl, 1-4 plt; John B. James, No. Bennington, Vt., 1 ckl; Edward Rich, 2 plt.

WHITE ANCONAS—C. A. Martin, Derry, N. H., 1 hen, 1-2 ckl, 1-2 plt.

MOTTLED HOUDANS—E. L. Sweetser, Schnectady, N. Y., 1 cock; Fred L. Woolner, Worcester, Mass., 2 cock; Bridlemere Poultry Yards, 3 cock, 3 hen, 1 ckl, 1 plt, 1 pen; Curtis A. Davis, 4 cock; H. W. Lacy, Wakefield, Mass., 1-2 hen, 2 ckl, 2 plt.

WHITE HOUDANS—S. A. Howland,

Granville, N. Y., 1 cock, 1 hen, ckl, plt.

BLUE HOUDANS—Ore Lake Farm, Stettersville, Pa., 1-2 hen.

W. C. BLACK POLISH—Charlesbrook Farm, Peterboro, N. H., 1 cock; Mrs. Walter C. Baylies, Taunton, Mass., 2 cock, 1-2 hen, 1-2 ckl, 1-2 plt; Dr. Geo. A. Jenkins, No. Weymouth, Mass., 3 cock; Chas. B. Wiggins, 4 cock, 3-4 hen; Dr. Geo. A. Jenkins, No. Weymouth, Mass., 3-4 plt.

SILVER POLISH—Orchard Poultry Farm, Spring Grove, Pa., 1 cock, 2-4 hen; J. F. Mackay, 2-3 cock, 1-3-5-6 hen.

WHITE POLISH—J. F. Mackay, 1 cock, 3 hen; Ore Lake Farm, 1-2 hen.

BEARDED GOLDEN POLISH—J. F. Mackay, 1 plt.

BEARDED SILVER POLISH—J. F. Mackay, 1-3 cock, 1-2-4-6 hen; Orchard Poultry Farm, 2 cock, 3-5 hen.

BEARDED WHITE POLISH—Ore Lake Farm, 1-2-4-5 cock, 1-2-4 hen, 1-2 plt, 1 pen; J. F. Mackay, 3 cock, 3-5 hen.

BEARDED BUFF LACED POLISH—Ore

Lake Farm, 1 cock; J. F. Mackay, 2 cock, 1-2 hen.

BLUE POLISH—Ore Lake Farm, 1-2 cock, 1-2 ckl, 1-2 plt.

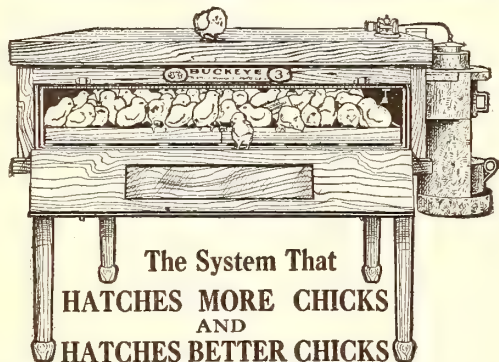
FRIZZLES—Ore Lake Farm, 1 cock, 1 hen, 1 ckl, 1 plt.

BLACK HAMBURG—J. Lovell Little, Brookline, Mass., 1-6 cock, 3 pen; Lyman & Storer, Waltham, Mass., 2 cock, 4 plt, 4 pen; Robert C. Morse, 3 cock, 1 ckl, 5 plt, 1 pen; S. H. Fessenden, Chestnut Hill, Mass., 4 cock, 6 hen, 5 ckl, 2-3 plt; John Lowell, Chestnut Hill, Mass., 5 cock, 1-2 hen, 6 ckl, 6 plt, 2 pen; C. Minot Weld, Readville, Mass., 3 hen, 2-3 ckl, 1 plt; Endicott P. Saltonstall, Chestnut Hill, Mass., 4 hen; J. Lovell Little, 5 hen; Richard Oke, London, Ont., Can., 4 ckl.

GOLDEN SPANGLED HAMBURG—John Lowell, 1-5 cock, 1-2-5-6 hen, 1-2 ckl, 1-2 plt, 1 pen; Geo. Carter Chaney, Leominster, Mass., 2 cock, 6 ckl; S. H. Fessenden, 3-4 cock, 3 hen, 5 ckl, 4-6 plt; Richard Oke,

"Buckeye"

"The Best Incubator Made"



The System That
HATCHES MORE CHICKS
AND
HATCHES BETTER CHICKS

Than any other incubator regardless of size, price or method.

Recognized by the largest breeders and the largest poultry supply dealers as the safest and surest incubator ever built. Every machine a guaranteed success.

FOR THE BIG BREEDER the 600 egg "Buckeye" will produce more chicks and stronger chicks than any big incubator you ever owned. We guarantee that. Operated with one lamp on a quart of oil a day and guaranteed to work perfectly in any temperature down to freezing.

FOR THE SMALLER BREEDER any of the other six sizes are guaranteed to do everything the big machine will do. Even the little 60 egg "Buckeye" at \$7.50 will hatch more chicks and better chicks than any other incubator—no matter what its cost.

It's the Best Incubator Made

Not the cheapest incubator but the best.

It's the incubator that is built UP to a standard and not DOWN to a price. That's why the "Buckeye" is sold by more reliable dealers than all the others combined—that's why so many of the large, successful breeders will use no other. The "Buckeye" is sold by more than two thousand of the largest poultry supply dealers and there are over 400,000 in successful operation! Let us send you a list of some of the big breeders who use the "Buckeye" and their reasons for using it. Let us send you the names of the largest dealers and their reasons for selling it. Let us tell you about the wonderful success of the "Buckeye" system and why so many have tried to imitate it. The "Buckeye" is made in seven sizes—60 eggs to 600 eggs.

600 Eggs	-	-	\$50.00
200 Eggs	-	-	17.50
110 Eggs	-	-	12.50
60 Eggs	-	-	7.50

SOLD ON 40 DAYS TRIAL

and guaranteed to hatch every hatchable egg.

Try a "Buckeye" in the same room with any other incubator and if it doesn't hatch more chicks and better chicks the first time you try it we'll take it back.

Write for "Buckeye" Catalog and Proof of "Buckeye" Superiority

The Buckeye Incubator Co.

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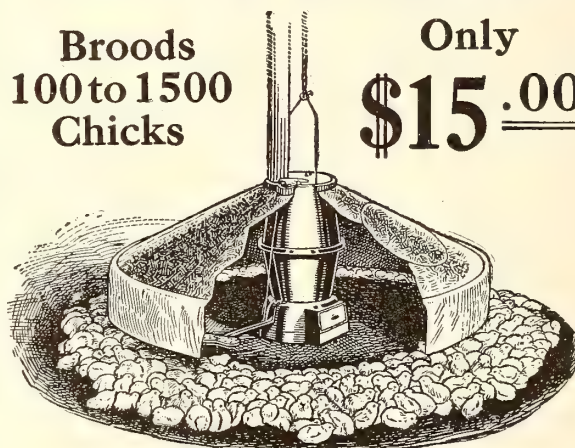
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The Standard

COLONY BROODER

Broods
100 to 1500
Chicks

Only
\$15.00



The Greatest
Coal-Burning Brooder
Ever Invented

Self Feeding—Self Regulating—Everlasting. Heavy cast iron stove that requires coaling but once in 24 hours in any temperature.

Fifty-two inch hover that will positively brood 1500 newly-hatched chicks.

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The "Standard" Colony brooder is the most practical brooding device ever invented. It will do anything and everything that any other brooder will do and do it better. It is infinitely more satisfactory than brooders selling at twice the price. We are so positive that it can not fail that we will permit you to try one for thirty days and

**Write Your Own
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Sold and guaranteed by dealers everywhere at \$15.00. Insist on the "Standard" and beware of imitations. Write us for a "Standard" Catalog and we will tell you how to grow three chickens where one grew before.

4 hen, 4 ckl. Edw. Reynolds, Boston, Mass., 3 ckl, 3-5 plt.

SILVER SPANGLED HAMBURGS—Robert Treat Paine, Boston, Mass., 1-2 cock, 1-3-4 hen, 3-4 ckl, 1-5 plt, 2-3 pen; John Lowell, 3-6 cock, C. Minot Weld, Readville, Mass., 4-5 cock, 6 hen; Chicktaubut Farm, Canton, Mass., 2 hen, 2-6 plt; Philip L. Saltonstall, Hyde Park, Mass., 5 hen, 2-6 ckl; W. L. Allen, 1-5 ckl, 3 plt, 1 pen; Robert C. Morse, 4 plt; Edw. C. Anderson, Toledo, O., 4 pen.

GOLDEN PENCILED HAMBURGS—Holly Hill Farm, Sea View, Mass., 1 cock, 2-4 hen, 3-4 ckl, 2-3 plt, John A. Gamewell, Little Silver, N. J., 2 cock, 1 hen, 1-2 ckl, 1 plt, 1 pen; Richard Oke, 3 hen.

SILVER PENCILED HAMBURGS—Richard Oke, 1 cock, 3 hen. James H. Lowell, Chestnut Hill, Mass., 1-2 hen, 1 cock; John Lowell, 1 pen.

WHITE HAMBURGS—Holly Hill Farm, 1 cock, 1 hen, 1 ckl, 1 plt; J. W. Shonfield, East Lynn, Mass., 2 ckl, 2 plt, 1 pen.

SILVER CAMPINES—Homestead Campine Farm, Weyland, Mass., 1-2-3-5-6 cock, 1-2-3-4 hen, 1-3-4 ckl, 1-3-5-6 plt, 1-2 pen; Warren J. Stokes, West Roxbury, Mass., 4 cock, 2 ckl; Geo. H. Sweetman, Boston, Mass., 5 hen; Frank M. Cheney, Orange, Mass., 5 ckl; Mrs. H. Barber, Franklin, Mass., 6 ckl, W. S. Williams, Whitman, Mass., 2 plt; Julius O. Bossmann, Horicon, Wis., 4 plt.

GOLDEN CAMPINES—Larchmere Poultry Farm, So. Hamilton, Mass., 1 cock, 2 hen, 1-2-3-4 ckl, 1-2-3 plt; Fred R. Shaw, Adams, Mass., 2-3 cock, 1-3 hen, 5 ckl, 4-5-6 plt, 1 pen.

BUTTERCUPS—Dr. C. S. Brouillet, Gardner, Mass., 1 cock, 2 hen, 1 ckl, 1 plt, 1 pen; Tremont, N. Swain, Northwood, Nantux, N. H., 2 cock; J. Harry Eddy, Saratoga Springs, N. Y., 3 cock, 2 ckl; C. Sydney Cook, Jr., West Newton, Mass., 1-3 hen, 4 ckl; G. J. Brook, Fall River, Mass., 3 ckl.

SALMON FAVEROLLES—F. J. Robinson, Nashua, N. H., 1 cock, 1 ckl; W. M. Tilton, West Roxbury, Mass., 2 cock, 1 hen, 2 ckl; Buttonwood Poultry Yds., So. Swansea, Mass., 2 hen; Cornelius Scanlan, W. Roxbury, Mass., 1 plt.

BLACK BREASTED RED GAME—Mrs. R. W. Pomeroy, Buffalo, N. Y., 1 cock, 3 hen, 5 ckl, 1 plt; F. A. Blanchard, Cortland, N. Y., 2 cock, 4 hen; A. W. Delano, Attleboro, Mass., 1-2 hen, 1-2-3-4 ckl, 2-3 plt.

BROWN RED GAME—F. A. Blanchard, 1 cock, 1 hen, 1 plt.

GOLDEN DUCKWING GAME—Mrs. R. W. Pomeroy, 1 cock, 1 hen; F. A. Blanchard, 2 cock, 2 hen.

SILVER DUCKWING GAME—F. A. Blanchard, 1 cock.

RED PYLE GAME—Mrs. R. W. Pomeroy, 1 cock, 1 hen.

BUCKEYES—H. W. & M. B. Deem, Eaton, O., 1 cock, 1 hen; E. & N. Watson, Methuen, Mass., 1-2 ckl, 1 plt.

GRAY AND DUCKWING GAME—Jas. A. Tebo, Weston, Mass., 1 cock.

BLUE AND BLUE RED GAME—Jas. A. Tebo, 1 cock.

EYLES AND WHITE GAME—G. W. D. Emerson, Weston, Mass., 1 cock.

HENNIES—Jas. A. Tebo, 1 cock; G. W. D. Emerson, 1 hen, 1 plt.

MALAYS—Mrs. R. W. Pomeroy, 1 cock.

SUMATRAS—Carl S. Fuller, Manchester, N. H., 1 cock, 1-2 hen, 1 ckl, 1 plt.

PHOENIX—Ore Lake Farm, Stettlersville, Pa., 1 cock, 1 hen, 1 ckl, 1 plt.

RED SUSSEX—C. H. Latham, Lancaster, Mass., 1 hen, 6 ckl, 3 plt; Wm. Hair, Lancaster, Mass., 1 ckl, 5 plt; Samuel Ayres, Granville, N. Y., 4 ckl, Ralph Woodward, Grafton, Mass., 5 ckl; Harwood Farm, Lit-

Compound Incubators Get Bigger Hatches

Any Place—Any Time—Any Climate

These famous Metal covered machines make big money every year for poultry raisers. High quality material, superior construction, simplicity and ease of operation all combine to give the greatest hatching value.

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Two
Prices

In this incubator you get the greatest hatching value at the lowest possible price. Will last a life time.



C. P. Shirey writes: I hatched 220 chicks from 222 fertile eggs. I have not done this with any other machine and I have tried a number.

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SPRAGUE, THE OLDEST BREEDER OF REDS IN ILLINOIS



Everything that goes toward making fine Rhode Island Reds can be found in my flock. My birds have the type and color that is demanded by the leading judges of this country. Particular attention is given to the utility value of each and every bird and a specimen that does not make good all around will not be tolerated in my yards. Right now I have a

SPLENDID LOT OF Cockerels

for sale. They will improve your strain wonderfully. I will sell them at reasonable prices. If you want to start a new flock or strengthen the stock you already have, send me your order for some eggs this spring and raise some good birds for breeders in 1916. My circular will tell you how I am in a position to give you better value for less money than any other breeder. I guarantee satisfaction.

Don't fail to send for my Free Circular.

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Old and young stock direct from my New York, Chicago and Cleveland Winners.

ALL STOCK SOLD ON APPROVAL. : PRICES REASONABLE.

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LIGHT BRAHMAS—BARRED ROCKS SINGLE COMB WHITE LEGHORNS

The same old story. We don't send out any high colored catalogs but give you your money's worth in birds. We won at the Kansas State Fair, at Hutchinson, 1 Cock, 2-4 Hen, 1-2-4 Pullet, 1-3 Cockerel, 1 Pen, all Light Brahma Club specials on shape and color, male and female.

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HURRAH! DAVIS WINS at Chicago, 1916 FIRST PRIZE PULLET S. C. R. I. REDS

Defeating 25 of the best pullets, all my competitors could possibly produce. Also won in both the cock and cockerel classes. Eggs and stock for sale. Prices reasonable. Write today.

M. C. DAVIS. : Haywood Road : WOODSTOCK, ILL.

Struble Buff Orpington Farm

Win at Chicago, 1915 show, 2nd cock, 3rd hen, 1-2-3 cockerel, 1st and 2nd pullet, 1st pen, best display and champion pen of show; won on all old birds, with 123 pens, all varieties and age, competing. Twelve birds shown and all under ribbons in what was conceded to be the best class of Buff Orpingtons ever shown in Chicago. All birds shipped C. O. D. Nuff said.

Struble Buff Orpington Farm, Lock box A Bascom, Ohio

Chicago Winners Jan. 1916

Won every prize on Silver Penciled Wyandottes. Come to headquarters to save time and money. Wonderful young stock for sale, bred from these winners. Eggs for hatching. Our prices are reasonable. Guarantee to please every customer. Write your wants.

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Grant's WHITE ROCKS Win

AT GREAT CHICAGO JANUARY SHOW, 1916, 1st cock bird (one entered), was one of the real sensations of the show. Stock and eggs for sale at reasonable prices. Pens now mated. Place your orders early. Satisfaction guaranteed.

JOHN GRANT : RICHMOND, ILLINOIS

BUFF ORPINGTONS, CHICAGO WINNERS

My birds have made wonderful wins at Chicago, Elgin and other Mid-West shows. They have that wonderful, soft, even shade of buff, and are true Orpingtons in every way. Wonderful pens now mated. Eggs and stock for sale. Have hundreds of satisfied customers everywhere. Write today.

H. SCHERRUBLE - ELGIN, ILL.

LOCK'S BARRED AND WHITE ROCKS

Winners wherever shown, including the largest Mid-West shows. Grandest lot of young stock we ever raised. SPECIAL SALE OF BARRED ROCK COCKERELS AT A BARGAIN. Eggs in season. All stock shipped on approval. Every bird guaranteed.

C. W. LOCK : 733 Haish Ave. : DE KALB, ILLINOIS

Makes 'Em Turn up Their Toes Mighty Quick

There isn't a ghost of a show for lice and mites on hens, chicks or nests after a dust with the old reliable Lambert's Death to Lice. It knocks 'em stiff in a jiff. As one of the big successful poultrymen wrote us, "It is impossible to get along without your louse killer," so it is with every user. There's nothing so efficient.

Don't Experiment

Follow the example of the leaders—ask any successful poultryman which lice killer has been the standard for 30 years—which is acknowledged BEST. He will tell you to

Get
Lambert's
OLD
RELIABLE
DEATH
TO
LICE

because he
has found
it **always**
the **BEST**.

Don't expect to make your hens pay and permit lice to worry and annoy them. The lice will get the profit and often the hens and chicks, too. A few cents invested in Death to Lice will bring dollars in profit. Just the thing for layers, sitters, and exhibition stock. Will not injure eggs, chicks or hens or soil plumage. Get a 5 oz., 10c box at dealers to try (or send us direct if he can't supply you). Other sizes 25c, 50c and \$1.00. Lambert's Latest copy of "POCKET BOOK OF POINTERS," a valuable book for poultry raisers. Mailed for 2c stamp.

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POWER FOR POULTRYMEN

26.50 Economical, reliable, steady power from the simple, rightly designed, heavy duty Galloway engines at right prices.
34.75 Hook up your bone cutter, clover cutter, feed mill, corn sheller, saws, pump to Galloway engine power and save back-breaking labor.
39.50 Big four-color engine catalog mailed free.
77.50
98.75
WM. GALLOWAY CO., Box 3105 Waterloo, Iowa

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FAMOUS "OTSEGO" STRAIN
Pedigree Bred

At Grand Central Palace, 1915, on four entries, won 1st R. C. Hen, 5th R. C. Cockerel, 2d S. C. Pullet.
Eggs \$5.00 for Fifteen

Free Booklet,

Dr. A. B. Carey Cherry Valley, N. Y.

tleton, Mass., 3 ekl, 4 plt; E. O. Comfort, Slatersville, R. I., 2 ekl, 1-2 plt; Chestnut Red Farm, Hackensack, N. J., 6 plt.
SPECKLED SUSSEX—Howard L. Davis, New Egypt, N. J., 1 cock, 1 hen, 1-2-3-4 ekl, 1-2-3-4 plt, 1 pen; Buttonwood Poultry Yds., So. Swansea, Mass., 2 cock.

ERMINETTE—Charles Longbottom, Plymouth, Mass., 1 ekl, 1 plt.

ANY OTHER VARIETY POULTRY—John Evans, Cranston, R. I., 1 cock, 1 hen, 1 ekl, 1 plt; Buttonwood Poultry Yds., 2 cock, 2 hen; A. L. Anderson, Windham Depot, N. H., 2-3 ekl.

BLACK COCHIN BANTAM—C. B. Schuyler, Rochester, N. Y., 1 pen.

PEKIN DUCKS—Pratt Poultry Experiment Station, 1-2 old drake, 1-4 old duck, 1-4 yng drake, 1-2 yng duck, 1 pen; Aldham Poultry Farm, Phoenixville, Pa., 2-3 old drake, 2 old duck, 3-5 yng drake, 4-5 yng duck, 2 pen; White Birch Poultry Farm, Bridgewater, Mass., 5 old drake, 3-5 old duck, 6 yng drake, 6 yng duck; H. B. Ellis, West Hanover, Mass., 2 yng drake, 3 yng duck.

AYLESBURY DUCKS—Eugene Sits, Flyria, O., 1 old drake, 1 old duck, Blue Spring Farm, Spring Grove, Pa., 2 old drake, 2 old duck, 1 yng drake, 2 yng duck; Mrs. W. P. Masten, Pleasant Valley, N. Y., 2 yng drake, 1 yng duck.

ROUEN DUCKS—Linstead Farm, Robinson, Md., 1-2 old drake, 1-2 old duck, 1-2-3 yng drake, 1-2 yng duck; Sheffield Farm, Glendale, O., 3 old drake, 3-4 old duck, 4-6 yng drake, 3-6 yng duck, 1 pen; White Birch Poultry Farm, Bridgewater, Mass., 4-5 old drake, 5-6 old duck, 5 yng drake, 4-5 yng duck; Blue Spring Farm, 6 old drake.

CAYUGA DUCKS—Pastime Farm, Allentown, Pa., 1 old drake, 1-3 old duck, 1 yng drake, 2-3-5 yng duck; Blue Spring Farm, 2 old drake, 2 old duck, 2-3 yng drake, 1-4 yng duck; Mrs. W. P. Masten, 3 old drake, 4-5-6 old duck, 4 yng drake, 6 yng duck.

GRAY CALL DUCKS—Blue Spring Farm, 1-4 old drake, 1-2 old duck, 1 yng drake, 1-2 yng duck; Pastime Farm, 2 old drake, 3 old duck, 2 yng drake, 3 yng duck; Mrs. W. P. Masten, 3 old drake, 4 old duck, 3 yng drake, 4 yng duck.

WHITE CALL DUCKS—Mrs. Walter C. Baylies, Taunton, Mass., 1-2 old drake, 1-3 old duck, 1-2 yng drake, 1-2 yng duck; Pastime Farm, 3 old drake, 2 old duck.

EAST INDIAN DUCKS—Blue Spring Farm, 1-2 old drake, 1-2 old duck, 1-2 yng drake, 1-2 yng duck, 1 pen; Pastime Farm, 3 old drake, 3 old duck, 3 yng drake, 3-4 yng duck, 2 pen; Mrs. W. P. Masten, 4 old drake.

CRESTED DUCKS—Pastime Farm, 1 old drake, 1 old duck, Blue Spring Farm, 2 old drake, 2 old duck, 2 yng drake, 2 yng duck; J. B. Woodward, 1 yng drake, 1 yng duck.

COLORADO MUSCOVY DUCKS—Blue Spring Farm, 1-2 old drake, 1-4 old duck, 1-2 yng drake, 1-3 yng duck, 1 pen; Winterthur Farms, Winterthur, Del., 3 old drake, 3 old duck, 5 yng drake, 5 yng duck; Mrs. W. P. Masten, 4 old drake, 5 old duck; Pastime Farm, 2 old duck, 3 yng drake, 2 yng duck; J. B. Woodward, Dexter, Me., 4 yng drake, 4 yng duck.

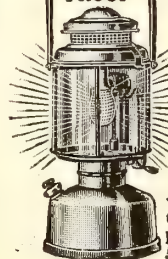
WHITE MUSCOVY DUCKS—Pastime Farm, 1 old drake, 3 old duck, 1-3-4 yng drake, 2-3-5 yng duck, 1 pen; Winterthur Farms, 2 old drake, 1 old duck, 5 yng drake, 6 yng duck; Blue Spring Farm, 3 old drake, 2 old duck, 2 yng drake, 1 yng duck; Eugene Sits, 6 yng drake, 4 yng duck.

INDIAN RUNNER DUCKS—John Slade, 1-2-3 old drake, 2-3 old duck, 1-3 yng drake, 1-4 yng duck; Blue Spring Farm, 4 old drake, 4 old duck, 4 yng drake, 5 yng duck; H. B. Ellis, 1 old duck, 2 yng drake, 2 yng duck; Carlton H. Macomber, Portsmouth, R. I., 3 yng duck, 1 pen.

ENGLISH PENCILED INDIAN RUNNER DUCKS—Charles Fraser, Marlton, N. J., 1 old drake, 1 old duck, 1 yng drake, 1 yng duck.

WHITE INDIAN RUNNER DUCKS—Crockford, Bristol, R. I., 1-2 old drake, 1-2 old duck, 1-2 yng drake, 1-2 yng duck; E. S. Blake, Auburndale, Mass., 3 yng drake, 4 yng duck; Harvey A. Drew, Vernon, N. J., 4 yng drake, 5 yng duck; Carlton H. Macomber, 5 yng drake, 3 yng duck.

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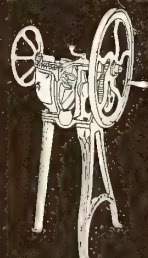
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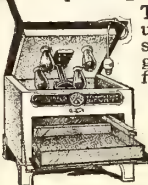
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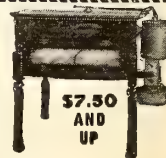
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Almendinger's Rose Comb Wht. Leghorns

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SWEDISH BLUE DUCKS—Blue Spring Farm, 1 old drake, 1 old duck, 2 yng drake, 1 yng duck; Eugene Sites, 2 old drake, 2 old duck, 1 yng drake, 2 yng duck.

WILD, ANY VARIETY OF DUCKS—Pastime Farm, 1-2-4 old drake, 1-2-3 old duck; Mrs. W. P. Masten, 3-5 old drake, 4-5 old duck, 2 yng drake, 2-3-4 yng duck; Winterthur Farms, 1 yng drake, 1 yng duck.

DECOY DUCKS—Pastime Farm, 1 old drake, 1 old duck, 1-2-3 yng drake, 1-2 yng duck, 1 pen.

BUFF ORPINGTON DUCKS—Pastime Farm, 1 old drake, 2-3 old duck, 1 yng drake; Willdum Duckery, Rowley, Mass., 2 old drake, 1 old duck, 2 yng drake, 1 yng duck, 1 pen; Winterthur Farms, 3 yng drake, 3 yng duck; H. B. Ellis, 2 yng duck.

MAMMOTH BRONZE TURKEYS—Hood Farm, Lowell, Mass., 1-2 cock, 1-3 hen, 2-3-6 ckl, 1-3-5 plt, 1-2 pen; H. D. Miner, West-erly, R. I., 2 cock, 2 hen; Margaret Mahaney, Concord, Mass., 4 cock, 4 hen, 1 ckl, 2 plt; Mrs. G. M. Thompson, Jr., 3 hen; Mrs. J. W. Gamlay, Wakefield, Mass., 6 cock; Miss Elizabeth Slotta, Rowley, Mass., 6 hen, 4 ckl; Mrs. W. J. Stewart, Townsend, Mass., 5 ckl; Burgess Poultry Farm, Nantucket, Mass., 4 plt; Clarence Butman, Beverly Farms, Mass., 6 plt.

WHITE TURKEYS—Eugene Sites, 1-3 cock, 1-2 hen; Winterthur Farms, 2 cock; J. Anderson Otis, Bridgewater, Mass., 4 cock, 3 hen; Mrs. J. H. Stickles, Claverack, N. Y., 1-2 ckl.

TOULOUSE GEESSE—D. O. Tuttle, Londonderry, N. H., 1 old gander, 4-5 yng goose; W. A. Cobb, So. Portland, Me., 2-4-5 old gander, 4-5 old goose, 1-2-3 yng gander, 1-2-3 yng goose; Blue Spring Farm, 3 old gander, 2-4 yng gander; Pastime Farm, 1-2-3 old goose.

EMBDEN GEESSE—D. O. Tuttle, 1 old gander; Eugene Sites, 2-4 old gander, 3-4 old goose, 1-2 yng gander, 1-2-4 yng goose; W. A. Cobb, So. Portland, Me., 3 old gander; Mrs. J. H. Stickles, 5 old gander, 5 yng goose; Pastime Farm, 1 old goose, 3-4 yng gander; J. Anderson Otis, 2 old goose; M. J. Cain, Lynnfield, Mass., 5 old goose; Blue Spring Farm, 5 yng gander, 3 yng goose.

BROWN CHINESE GEESSE—Blue Spring Farm, 1-2 old gander, 1-3 old goose, 1-3 yng gander, 2-3 yng goose; Pastime Farm, 3 old gander, 4 old goose, 2 yng gander, 4 yng goose; M. J. Cain, 4 old gander; Mrs. W. P. Masten, 5 old gander, 2-5 old goose, 4 yng gander, 1-5 yng goose.

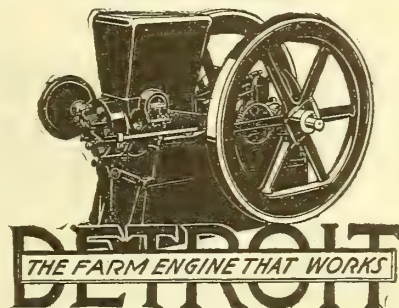
WHITE CHINESE GEESSE—Blue Spring Farm, 1-2 old gander, 2-4 old goose, 1 yng gander, 4 yng goose; Mrs. W. P. Masten, 3 old gander, 1-3 old goose, 5 yng gander, 1 yng goose; B. S. Blake, 4 old gander; Andrew Bray, Providence, R. I., 5 old gander, 3 yng gander, 1 pen; Pastime Farm, 5 old goose; Pratt Poultry Experiment Sta., 2 yng gander, 3 yng goose; O. W. Eggleston, Lydonville, Vt., 4 yng gander, 5 yng goose; Bay End Farm, Buzzards Bay, Mass., 2 yng goose.

AFRICAN GEESSE—W. H. Huse, Manchester, N. H., 1-5 old gander, 1-2 old goose, 3 yng gander, 2 yng goose; Blue Spring Farm, 2-3 old gander, 3 old goose, 1-2 yng gander, 1-3 yng goose; Charles Robinson, Marblehead, Mass., 4 old gander, 4 old goose; H. D. Miner, 3 old gander, 5 old goose; Mrs. W. P. Masten, 6 old goose.

WILD GEESSE—Mrs. W. P. Masten, 1 old gander, 3 old goose, 3 yng gander; Blue Spring Farm, 2 old gander, 1 old goose, 2 yng gander, 2 yng goose; Pastime Farm, 3 old gander, 2 old goose, 1 yng gander, 1 yng goose; Caleb Loring, Boston, Mass., 4 old gander, 4 old goose.

ANY OTHER VARIETY GEESSE—(Buft) Walter L. Clafin, Wilmington, Mass., 1 old gander, 1 old goose; (Blue) Mrs. W. P. Masten, 2 old gander, 2 old goose.

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258

282

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BROWN RED GAME BANTAMS—Mrs. R. W. Pomeroy, 1 cock; W. J. Greenman, Cortland, N. Y., 1 hen, 3 pit; Linstead Farm, 1 ckl, 1 pit; W. H. Congdon, Oaklawn, R. I., 2-3 ckl, 2 pit; John W. Shonfield, 4 ckl, 4 pit; W. H. Fitton, Worcester, Mass., 5 ckl.

GOLDEN DUCKWING GAME BANTAMS—Mrs. R. W. Pomeroy, 1 cock, 1 hen, 2 ckl, 2 pit; Linstead Farm, 1-3 ckl, 1 pit; W. H. Fitton, 4 ckl, 3 pit.

SILVER DUCKWING GAME BANTAMS—Linstead Farm, 1 cock, 1 hen, 2-3 ckl, 1 pit; Frank L. Benson, South Medford, Mass., 2 cock, 2-4 hen; W. H. Congdon, 3 cock; Edward F. Barrows, Brattleboro, Vt., 4 cock; H. C. Rice, Jr., Brattleboro, Vt., 5 cock, 5 hen, 4 ckl, 2 pit; F. D. E. Stowe, 3 hen, 1 ckl, 3 pit; David Dunn, Jermy, Pa., 5 ckl.

RED PYLE GAME BANTAMS—Linstead Farm, 1 cock, 4 hen, 2-3 ckl, 3-5 pit; Geo. S. West, Chestnut Hill, Mass., 2 cock, 6 hen, 6 ckl, 6 pit; David Dunn, 3 cock; S. B. Roy, Worcester, Mass., 4 cock, 1-3 hen; Wm. F.

Wylde, Lawrence, Mass., 5 cock, 2-5 hen, 1-4 ckl, 1-4 pit; John W. Shonfield, 6 cock; Michael T. Flaherty, Northbridge, Mass., 5 ckl; Theo. C. Richards, Rockland, Mass., 2 pit.

BIRCHEN GAME BANTAMS—W. H. Congdon, 1 cock, 1 hen, 4 ckl, 1 pit; W. J. Greenman, 2 cock, 5 hen, 2 ckl, 4 pit; Miss Helen Wales, Beverly, Mass., 3 cock, 4 hen, 3 ckl, 2 pit; S. B. Roy, 4 cock, 3 hen, 5 ckl, 5 pit; H. A. & L. P. Benedict, Norwood, Mass., 5 cock, 6 hen, 6 pit; Mrs. R. W. Pomeroy, 1 ckl, 3 pit.

WHITE GAME BANTAMS—Linstead Farm, 1 cock, 1 hen, 1 ckl, 1 pit; George S. West, 2 cock, 2 hen, 2 ckl, 3-4 pit; Mrs. R. W. Pomeroy, 3 cock, 4-5 hen, 5-6 pit; Frank L. Benson, 3 hen; T. Dickson Smith, Boston, Mass., 6 hen, 3 ckl, 2 pit.

BLACK GAME BANTAMS—Ore Lake Farm, 1 cock, 2 ckl, 2 pit; W. H. Congdon, 1 ckl, 1 pit.

OLD ENGLISH GAME BANTAMS—Henry D. Phelps, Newport, R. I., 1 cock, 2-3 hen, 1-2 ckl, 3-4-5 pit; W. J. Greenman, 2 cock, 1 hen, 3 ckl, 6 pit; Waldo F. Havey, Walham, Mass., 3 cock, 4 hen; A. E. Jessel, Stratford, Conn., 1-2 pit.

WHITE WYANDOTTE BANTAMS—Samuel Van Bergen, Cortland, N. Y., 1 cock, 1 hen, 1 ckl, 1 pit.

PARTRIDGE WYANDOTTE BANTAMS—Samuel Van Bergen, 1 cock, 1 hen, 1 ckl, 1 pit.

MILLE FLEUR BANTAMS—W. J. Greenman, Cortland, N. Y., 1 cock, 1 ckl, 1 pit.

SILKIES—Milan A. Brayton & Son, Fall

River, Mass., 1 cock, 1-2 hen; McCammon & Myers, Gettysburg, Pa., 2 cock, 4 hen, 2 ckl, 3 pit; Glenbreekin Farm, Noroton, Conn., 3 cock, 3-5 hen, 1-5 pit; Oliva Lowell, Chestnut Hill, Mass., 1 ckl, 6 pit; Mrs. Maud E. Trayne, Groton, Mass., 2-4 pit.

GOLDEN SEBRIGHT BANTAMS—D. P. Shove, Fall River, Mass., 1 cock, 1-2 hen, 5 ckl, 6 pit; H. E. Watte, Brockton, Mass., 2 cock, 3 hen, 3-4 ckl, 3-5 pit; Centerdale Poultry Yards, Centerdale, R. I., 3 cock, 4 hen; Mrs. Frank E. Yeager, Cochituate, Mass., 1-2 ckl, 1-2-4 pit.

SILVER SEBRIGHT BANTAMS—Peter S. Byrnes, Wickford, R. I., 1 cock, 1-2 hen, 1 ckl, 1-2 pit.

R. C. BLACK BANTAMS—F. W. Weisenberge, Toledo, O., 1 cock, 1 pit; C. F. Davey, Vineyard Haven, Mass., 2 cock, 3 hen, 3 ckl, 4 pit; Alfred L. Cutting, Weston, Mass., 3 cock, 2-4 hen, 1-2 ckl, 2-3 pit; Fred H. Haag, Syracuse, N. Y., 1 hen; John W. Shonfield, 5 pit.

R. C. WHITE BANTAMS—Chauncey C. Nash, Milton, Mass., 1 cock, 2-3-4 hen, 1-2-3-4-6 ckl, 1-2-3-5-6 pit; W. Earl Cole, McGraw, N. Y., 2 cock, 1 hen, 5 ckl; John W. Shonfield, 4 pit.

BOOTED WHITE BANTAMS—Mrs. R. W. Pomeroy, 1 cock, 1 hen, 1 ckl, 1 pit.

BUFF COCHIN BANTAMS—Henry G. Miller, Rochester, N. Y., 1 cock, 3 hen; Edw. Leech, West Roxbury, Mass., 2 cock, 2 ckl; Edwin W. Staples, Taunton, Mass., 3 cock, 1-2 hen, 1 pit; Samuel Van Bergen, Cortland, N. Y., 4 cock; Alexander Shaw, Newton Center, Mass., 5 cock, 3 ckl; Allan R.

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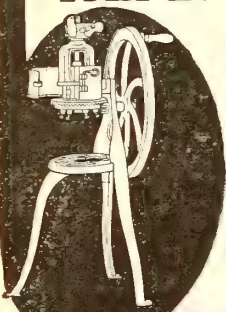
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Write today for our free poultry books and learn at once what it might take you, alone, years of costly experience to find out. You know how eager fowls are for bugs and worms. Our book tells why. Briefly, it's the animal food they want, and **must have**, in order to thrive best. Chicks, laying hens, corks, all need it—to develop frame, muscle, feathers, to produce many eggs, to produce fertile eggs. To replace bugs and worms in winter, or, for yarded fowls, feed freshly cut raw bone, prepared with

MANN'S LATEST MODEL BONE CUTTER

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This feed is four times richer in protein (the egg-making, body-building element), than corn is, and it is more easily digested and assimilated. **Save** money by cutting down your grain ration. **Make** money by getting more eggs when eggs are worth most and by having better eggs for hatching stronger chicks, earlier and heavier broilers.

Mann's Latest Model Bone Cutter cuts the bone (and all adhering meat and gristle) into a fine, soft mash that fowls of all ages relish and can put to immediate use in producing profit for you. It turns easily, cuts rapidly, never clogs, wastes nothing. We sell it on **10 Days' Free Trial**, without money or deposit in advance—so you may be sure it is right. We even pay its freight back if you are not satisfied.

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TIVERTON 4 Cors., R. I.

Howe, Fairhaven, Mass., 6 cock, 2 plt; C. B. Schleyer, Rochester, N. Y., 4-5 hen, 1 ckl; C. A. Kohler, Braintree, Mass., 6 hen.

PARTRIDGE COCHIN BANTAMS—Glenwood Farm, West Mansfield, Mass., 1 cock, 1 hen, 2 plt; S. H. Fessenden, Jr., 2 cock, 3 hen; Edwin W. Staples, 3 cock, 5 hen, 2 ckl; J. E. Morse, Taunton, Mass., 4-5 cock, 2 hen, 3 ckl, 1-3 plt; W. S. Williams, Whitman, Mass., 6 cock, 4 hen, 4 ckl, 6 plt; Joseph W. Benson, Whitman, Mass., 6 hen; Miss Clara C. Dupee, Hyde Park, Mass., 1 ckl, 4 plt; Baylies Bros., 5-6 ckl; John Evans, Cranston, R. I., 5 plt.

WHITE COCHIN BANTAMS—A. E. Jessel, Stratford, Conn., 1 cock, 1 hen; Charles H. Colburn, 2 cock, 1 plt; Alexander Shaw, 2 hen, 2 plt.

BLACK COCHIN BANTAMS—T. Dickson Smith, 1-6 cock, 2 plt; Poch Bros., Dedham, Mass., 2-3 cock, 4 hen, 3 ckl;

Tiot Bantam Yards, Norwood, Mass., 4 cock, 4-5 plt; Edward Leech, West Roxbury, Mass., 5 cock; Jos. W. Benson, 1-3 hen, 2-4 ckl; W. S. Williams, 2 hen, 5 ckl, 3 plt; Chauncey C. Nash, 5 hen, 1 ckl, 1 plt; Alexander Shaw, 6 hen; W. J. Greenman, 6 ckl.

LIGHT BRAHMA BANTAMS—Harwood Farm, Littleton, Mass., 1 cock, 2 hen; Wm. F. Reardon, Worcester, Mass., 2 cock, 1 hen, 2 ckl, 3 plt; John Evans, 3 cock, 3 hen; W. C. Fuller & Son, Norwood, Mass., 1 ckl, 1 plt; John F. Woodward, Grafton, Mass., 3 ckl, 2 plt.

DARK BRAHMA BANTAMS—John Evans, Cranston, R. I., 1 cock, 1 hen, 2 ckl, 3 plt; Thos. F. Donnelly, Spencer, Mass., 2 hen, 1-4 ckl, 1-2 plt; Alfred Bensit, Spencer, Mass., 3 ckl, 4 plt.

JAPANESE BLACK BANTAMS—W. J. Daniels, Whitman, Mass., 1 cock, 1 hen, 1 plt.

JAPANESE WHITE BANTAMS—C. F. Davey, 1 cock, 1 hen, 2 ckl, 1 plt; L. E. Gray, Foxboro, Mass., 2 cock, 2 hen, 1 ckl, 2 plt; W. J. Daniels, 3 hen, 3 plt.

BEARDED WHITE POLISH BANTAMS—Ore Lake Farm, 1-2-3-4 cock, 1-2-3-4 hen, 2-4 plt; Mrs. R. W. Pomeroy, 1 ckl, 1-3 plt.

BUFF POLISH BANTAMS—W. Earl Cole, 1 cock, 1 hen, 1 ckl, 1 plt.

BARRED PLYMOUTH ROCK BANTAM—James M. Pulley, Melrose, Mass., 1 hen.

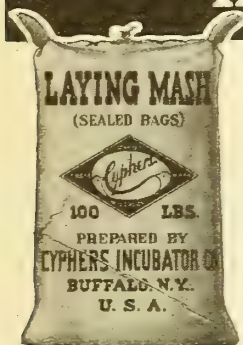
ANY OTHER VARIETY ORNAMENTAL BANTAMS—(P. B. L. POLISH) C. P. Jones, Providence, R. I., 1 cock, 2-3 hen; (Cornish) T. Dickson Smith, 1 hen; (W. Leghorn) A. E. Jessel, Stratford, Conn., 1 ckl.

GOLDEN PHEASANTS—Milan A. Bratton & Son, 1.

LADY AMHERST PHEASANTS—Milan A. Bratton & Son, 1-2.

PEARL GUINEAS—M. J. Cain, Lynnfield.

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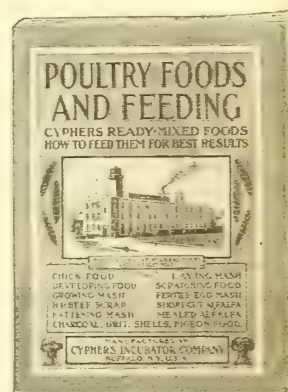
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Puritan Chick Food

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Delivered Free within 300 miles of New York. Special prices in quantities. Sold by dealers or direct.



Best and Most Economical, Sanitary and Moisture Proof Litter for Poultry Houses, Coops, Brooders, or Brooder Houses. Lasts for months. Breeders everywhere endorse its use. Order from your dealer or direct. Sample and catalog FREE.

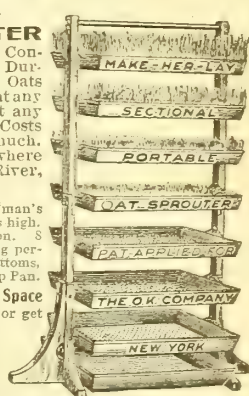
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The Most Complete, Convenient, Sanitary, Durable, and Compact Oats Sprouter. Does all that any other Sprouter at any price, can or will do. Costs only about half as much. Price, delivered anywhere East of Mississippi River,

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11 Sq. Feet of Growing Space. Nothing to break, rust or get out of order. Diminish your feeding cost and increase your egg yield by ordering a "Make-Her-Lay" today, or send for descriptive circular.



The World's BEST Birds were gathered at Madison Square Garden 1916

IT WAS JUST ANOTHER
PROOF OF THE QUALITY
OF OUR

White Orpingtons

Here are the Results

1st COCK 1st and 4th HEN
2d COCKEREL 1st and 4th PULLET
2d PEN

and cup for best 1915 Orpington
Pullet in show.

Our pens are now mated,
containing these Garden
winners, and many others.

Write us today.

The Morris Poultry Farm
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GLORY-ANNA
S. C. WHITE
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**Choice Cockerels
and Eggs**

from our Palace, Indianapolis, Nash-
ville, Louisville and Memphis winners.
Write for Catalog and Prices

GLORY-ANNA POULTRY YARDS
547 S. 4th Avenue LOUISVILLE, KY.

THE BIRDS THAT LAY AND PAY BLACK Langshans

As in previous years we have again made a wonder-
ful win at Boston, 1916, 1st hen, 1st cockerel, 2d cock,
1st pen. On White Langshans, one entry, and
won 1st pen. Tell us what you want, we can supply
you at prices that are right.

IVES, IVES and IVES, GUILFORD, CONN.

Rikhoff's S. C. Brown Leghorns

Repeat again at the quality show, Chicago Coliseum,
Dec. 1915. In competition with the most successful bred birds
in America and Canada. I won on Cocks 2-5, Hens 2-3-4, Ckls.
1-4, Pullets 1-3-5, Pens 1, and first Pullet bred Cockerel.

At Indianapolis, Jan. 1916, all firsts and seconds. At In-
diana State Fair 1915. Five firsts. First prize winners at Mad-
ison Square Garden, and many other shows. If you want to
breed winners, you must come to headquarters. Mating list free.

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Plenty Exhibition, Breeding and Utility Stock.
Prices reasonable. FREE CIRCULAR.

Ralph Woodward Box 200 Grafton, Mass.
Pres. National Columbian Wyandotte Club.

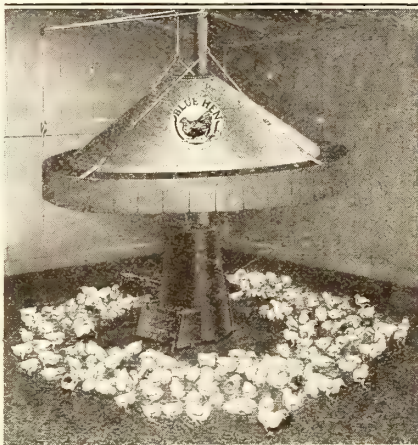
MARKETING EGGS BY PARCEL POST.

By L. A. RICHARDSON, Marine, Ill.

THE greater part of the egg output of
this country is produced on the
farms, and the farmer poultrymen are
beginning to realize the great advantage
the parcel post service is offering them
in the way of marketing their eggs. For
in this way, they are enabled to supply
strictly new laid eggs direct to the fami-
lies in the cities.

Prior to the introduction of this ser-
vice, the farmer with new laid eggs, and
the city consumer were widely separated
by the long established route of trade.
His eggs passed first into the hands of
the country merchant, then to the com-
mission man and thence to the city re-
tailer. No distinction was made in price
between eggs that were strictly fresh and
those that were of doubtful age. Hence
the farmer had no inducement to exer-
cise extra care either in the gathering
or the delivery of eggs. They were con-
sequently gathered once or twice a week
until enough had accumulated to fill a
large basket and these were taken to
the country store when it was conven-
ient to go that way.

If a higher price for eggs was expect-
ed, the eggs were held two or three
weeks before being disposed of. This



A new hot-air brooder, the Blue Hen. A
very excellent and successful brooder of the
coal-stove type. The manufacturers, the Wat-
son Manufacturing Company, of Lancaster, Pa.,
claim that it raises a greater percentage of
chicks because of its positive regulation and
the fact that the chicks get plenty of fresh,
warmed air without crowding and smothering
each other.

slow and sloven way of reaching the
city market with country eggs, accounts
for notations in the open market quota-
tions like the following: "Eggs strictly
fresh, very scarce. Stale and shrunken,
in great abundance."

The fact is, the city consumers are not
content with that kind of service and
they are willing to pay a reasonable
premium above the market price for
strictly new laid eggs. They are reach-
ing out to the farms thru the parcel
post service and are getting eggs by the
thousands daily.

Farmer poultrymen awakening to this
enormous demand are fast preparing to
supply it. Everywhere they are improv-
ing their flocks by the introduction of
better bred fowls from well established
laying strains. They are giving laying
hens comfortable quarters and supplying
them with the best foodstuffs.

All over the country, these wide-
awake farmer poultrymen are organizing

egg shipping clubs, one of their number
acting as correspondent and business
manager, whose duty it is to receive the
new laid eggs from other members of
the club and forward them by parcel
post to their list of city families desir-
ing this service.

It is worth noting how rapidly the city
lists of consumers increase in number.
I have in mind a small egg shipping club
that was only recently organized. This
club is located two hundred and fifty
miles from Chicago. For the first two
or three weeks they had but one family
on their "list of customers." When the
club had been in operation two months,
they were sending out over one thou-
sand eggs a week.

Eggs that are laid today reach the
Chicago homes of customers by 8 a. m.
tomorrow. It is not surprising that this
freshness in quality, and promptness in
delivery is turning the tide thru the
short cut, from the farm to the city
table.

The effect that this fast growing new
trade channel will have on the common
market egg is very apparent. The ship-
ping of eggs by parcel post during the
first years of the service, on account
of the heavy loss by breakage, was un-
profitable. None of the early devices
made for shipping cases, afforded the
necessary protection to the eggs from
breakage. It was not until a container
with safe slotted egg pockets came into
use that there was any degree of cer-
tainty that shipments would go thru to
destination without loss from breakage.
Since which time this new and novel
way of supplying city families promptly
with new laid eggs, at about the same
price they had been paying for the com-
mon market eggs, has been rapidly
growing in favor with both the producer
and the consumer.



Madison Square WINNERS

Kulp's wonderful Rose
Comb Brown, 242-egg
strain; S. C. Brown, 240-
egg strain; both big win-
ners at Madison Square.
Large birds, large eggs.
2 greatest strains bred.

Four customers in New York, two in Mon-
tana, one in Idaho, two in B. C., one in Eng-
land and many others have written me that
my Rose Comb Brown Leghorns excel all
others as layers, and lay large eggs. I never
had so many prizes reported as this year.
One man writes: "When it comes to Single
Comb Browns you are in a class by your-
self." I have most Wonderful male color.
Stock for sale, all breeds.

Rose Comb White, first Madison Square,
big white eggs, big birds, record of 244 eggs.
S. C. Whites—236 to 288 egg strains. No
better in the world. Try them.

S. C. Red cockerels of 248 egg strain.
They are the top.

White Wyandottes—228 egg line.

Barred Rocks—270 egg strain.

Eggs \$2 to \$1 per 15. Catalogue.

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To get rid of rats get

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Non-Poisonous. Guaranteed to destroy the
rat and mouse pest from corncribs, bins, pou-
ltry houses, stables, etc. No results, no pay.
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west of Miss. If your dealer can't supply you
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New designs. All varieties. 16 page
catalogue free.

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MONTHLY PRIZE CONTEST DEPARTMENT

The American Poultry Journal offers the following prizes monthly for the two best articles received on or before the fifteenth day of each month: For the best article, a prize of Three (\$3.00) Dollars will be awarded; for the second best article, a prize of Two (\$2.00) Dollars will be given. Articles intended for the Contest must be written on one side of the paper only and should not contain less than 1,000 nor more than 2,000 words. The articles may be written on any subject pertaining to poultry culture. We reserve the right to retain all articles submitted and to publish such as we deem worthy of space. Send all articles plainly marked to Contest Editor, American Poultry Journal, Lock Box 4, Silver Lake, Mass.

MANAGEMENT AND CARE OF EARLY CHICKS.

Being the First Prize Article in American Poultry Journal's Monthly Contest.

By P. H. GRIGSBY, Glouster, Ohio.

IT IS not too soon to prepare for the season's crop of chicks. Those who have been in the business for any length of time have their own ideas on the subject of rearing chicks, which they follow with varying success.

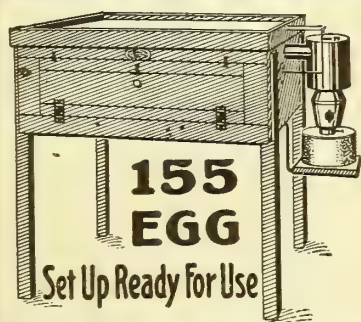
I have noted great changes in this important part of the business during the past twenty-five years, when as a boy on the farm it was my duty to feed and care for the chicks. In those days, like most farmers, we had a large flock of mongrels, all sizes, types and colors. We usually hatched our chicks in April, May or June, when the weather was warm enough for them to run around with the hen and pick up most of their living. For hatching we picked the largest eggs laid by the flock, which are now believed to be from the poorest layers, but almost any hen lays well at that season of the year.

Morning, noon, and night the chicks were fed corn meal moistened with water until they were six to eight weeks old, after which they were expected to shift for themselves—which they did at the expense of the garden, the orchard and nearby grain fields. In the Fall, those that had escaped gapes, chilling or drowning during the sudden Summer showers, hawks and other enemies of chickenhood, were rounded up, the cockerels sent to market and the pullets reserved for layers. However, they did not seem to lay, at least, not until Spring, when eggs were selling at the rate of two dozen for a quarter! In those days I certainly did hate chickens and could see no reason for keeping them. As many have before and since, I placed the blame on the chickens instead of on the lack of care and management which were accorded them. If such conditions prevailed today, the poultry industry, instead of being a billion dollar one, would be as insignificant as it was then. The great growth of the poultry industry is due to the profit to be gained from keeping poultry and this has been brought about by increased knowledge of the care and management of fowls. Credit for this increase of

knowledge should be given to the poultry exhibitions, the work of the experiment stations and last but not over topping all, the poultry journals which have placed all knowledge thus gained in the hands of the public where it does the most good.

The subject of care and rearing of early chicks should interest every poultry keeper. I speak of early chicks because I find the February and March hatched birds to be much superior in size, color and in egg production to those hatched later. I begin preparing for my season's crop of chicks when I mate up my breeding pens in December and January.

In mating the birds I keep two objects in view—utility and Standard requirements. By utility I mean birds that will produce the greater number of eggs, as well as the best bodily development from the food consumed. You will notice in every flock of chicks a few that make phenomenal growth—really growing right away from the rest of the flock. Such birds usually show great vigor and vitality. I mark these birds and if they have no disqualifications and are near enough to Standard requirements, they are later used in my breed-



Leads Them All in Hatches

100% Hatch

"My first hatch was 125 big, strong chicks from 125 eggs. How's that?"

—Wm. A. Burckhart, Bryan, Ohio

140 Chicks from 140 Eggs

"I have had a splendid hatch. 140 chicks from 140 eggs. Great Machines Yet."

—A. J. Bohn, Truesdale, Mo.

No Cripples

"I have had six 93% hatches and not a cripple in the bunch. Best Machines Yet."

—Bert Covert, Lynchburg, Ohio

Three 98% Hatches

"Three 98% hatches and the healthiest chicks that I ever saw. They can't be beat."

—W. M. Allen, Mt. Calm, Texas

\$7.85 LOWEST PRICE YET FOR 155 EGG INCUBATOR

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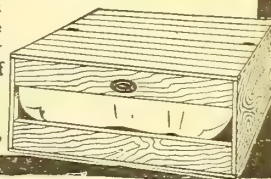
Only Incubator with Hundreds of Dead Air Cells to Protect Eggs

Sudden temperature changes won't spoil your hatch. Works right with little attention and little oil. Built of Best Clear Genuine California Redwood and lined with a three ply corrugated insulator with Hundreds of Dead Air Cells to protect the egg chamber. It's set up and ready for use when you get it.

Get Our Big Free Book

Gives full description of parts. Big new Combination Offers. Straightforward talk about the Progressive Method of doing business and valuable suggestions on making poultry pay. If you are in a hurry send order from this advertisement. 155 egg Incubator \$7.85; with Brooder \$9.85. Freight prepaid East of the Rockies. Machines fully guaranteed. Money back if not as represented.

Progressive Incubator Company, Box 135 Racine, Wis.



Mother's 500 Chicks for 45 cents a week

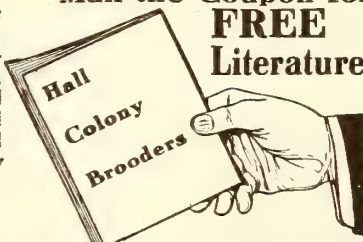
To stay in the poultry business and make a profit requires constant raising of laying and breeding stock. Every poultryman knows that good layers and breeders are range raised. The Hall Cold-Heated Colony Brooder, with cheap portable brooder houses, useful all year, give the advantage of low first cost and low operating expense while brooding up to 500 chicks—the PRACTICAL limit with one brooder—of hardy, healthy chicks.

Successful poultrymen, commercial hatchers, farmers, who are in the poultry business to make money by brooding chicks that command profitable, hardy chick prices use and indorse as the one brooder of absolute accuracy in results, the

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that broods up to 500 chicks easier, cheaper than one-tenth the number can be raised under any small flock system. Built for practical service; has 52" round hover, easily raised on pulleys, detachable felt curtains; cast iron stoves, revolving triangular grates cut out ashes or clinkers; fire pot carries 14 hours' fuel—no magazine needed; coaling, shaking, ash removal without raising hover—no chilled chicks, no gas; thermostat absolute in temperature control; regulator parts few, positive—no delicate bearings, counterpoise weights, complicated levers. The Hall is the original coal heated colony brooder—marketed by the Hall Company years before any other.

Mail the Coupon for
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Literature



tells best and cheapest way to brood healthier, stronger chicks; how successful farmers and poultrymen use the Hall—and why; free construction plans for easily and cheaply built brooder houses.

Hall Mammoth Incubator Company
107 Southern Avenue, Little Falls, New York

**HALL MAMMOTH INCUBATOR
COMPANY**

107 Southern Ave., Little Falls, N. Y.

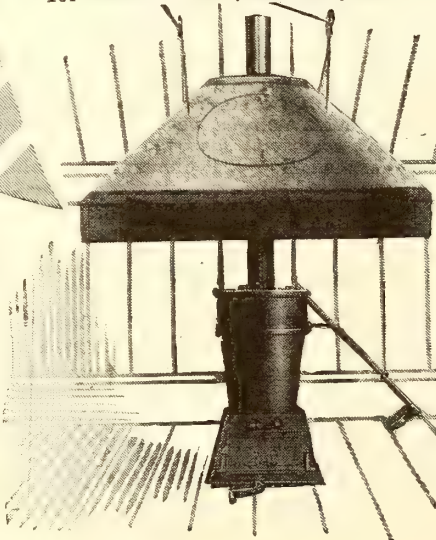
Please send me your Free Brooder Literature without obligating me.

Name

Town

State

Write into margin if you need space.



ing pens. I am an exhibitor, and not an unsuccessful one, of the varieties I breed, and the birds heading some of my pens are usually prize winners at some of our shows. All my chicks are hen hatched and hen reared. In that part of the business I cling to the old method, as I believe it has never been improved upon. The hen hatched chick seems to have a certain vigor and vitality which, in many cases, is lacking in the artificially hatched ones.

I use small brood coops 36x36x30 in. high, with removable top and use one of these for each hen with a brood. As soon as a good likely appearing hen becomes broody, she is placed in a nest in one corner of one of these coops, after dusting both hen and nest with a good lice powder. If she is perfectly satisfied with her surroundings and settles down as tho she meant business, I give her a setting of eggs to cover and keep her well supplied with grit, water and whole corn. Occasionally she is allowed out for exercise and watched to see if she returns reasonably soon to her nest, which she usually does without coaxing. By following this plan, each coop in a separate yard, there is no fighting among the prospective mothers, seldom any eggs broken and no possibility of a hen getting on the wrong nest.

As soon as the chicks are hatched and old enough to leave the nest, I remove the hen and chicks to a brooder house, kept at a proper temperature (this being in February or March), where they remain until the weather is suitable to place them in the small coops on the ground and allowed to go on range, the hen being confined in a small wire enclosure attached to coop. This can usually be done by the first of April.

The first feeding for the chicks consists of a mixture of hard boiled eggs and rolled oats and is given when they are forty-eight hours old. This food is continued for two weeks. After the first few days they are given a small run from which the hen is excluded, the floor of which is covered with from one to three inches of alfalfa meal, the depth depending upon the age of the chicks. Chick food is also sprinkled in this litter and they soon learn to scratch for their living. I know of no better way to develop bone and muscle and to insure a healthy, rapid and vigorous growth.

I always anoint the head and back of the neck of the newly hatched chick with olive oil or pure lard to prevent head lice and see to it that the mother hen is dusted before being removed to the brooder house. Neglect of this usually results in serious loss, as lice infested chickens easily become stunted or die. Even if given belated attention, they never become the same birds they might have been.

As the chicks develop I grade them according to size in separate yards placing a flock of from fifteen to thirty in each yard. At four months, I separate the cockerels and pullets.

In the earlier months of the chicks life I feed for bone. A large frame is desirable and later the flesh can be put on, but it is too late to grow bone when the fowl is nearing maturity. Oats is a good bone maker and I feed plenty of them whole, ground in their mash, and as green food.

I furnish the growing chicks with plenty of oyster shells, grit and fish scrap, as they are all rich in bone forming material. As my yard space is lim-

ited I grow a separate patch of oats for green food. This green food is fed as follows: I use one gallon milk crocks for water in the yards. I first fill the crocks partly full of water and finish filling them up with green freshly cut oats which remains fresh and green until all is eaten. I feed the oats when twelve to fifteen inches high, cutting it off with a sickle and twisting it into pieces two to three inches long which may be readily swallowed by the birds. By this method a small patch of oats will go a long way, as none of it is wasted, and they seem to like the drinking water better with the oats in it.

In conclusion let me say that good care and management are as necessary in poultry raising as in any other line of human endeavor. Mismanagement spells failure every time. With the right care our little flock soon becomes a source of profit and enjoyment. They furnish us with fresh eggs and delicious meat. Millionaires and kings, with all their wealth and power, cannot obtain better. And tho our toil be hard and irksome at times and filled with petty worries, we forget it all when in the evening we look over our little flock, and noting some fine specimen developing in wondrous beauty, dream of the day when the blue ribbon shall adorn his coop in the show room.

VALUE OF TRAP NESTS TO THE POULTRYMAN.

Being the Second Prize Article in the American Poultry Journal's Monthly Contest.

By C. E. TRUMP, Polo, Ill.

IN STARTING my farm a number of years ago I did not think it worth while to install trap nests, as I had read numerous articles stating the great amount of work connected with this line of selection. I followed the advice of many writers and selected my breeders by type and had what might be termed fair success, tho the result was not satisfactory to me.

I soon realized that I had some very good layers and some that did not lay at all, or at least very few eggs. I decided that selection was better than no culling at all, but was interested to know the result if the drones were removed from the flock altogether. Another thing which entered into my decision to install trap nests was that the general tendency of the buying public is to demand an authentic individual egg record and not a flock record.

About this time I installed a complete system of trap nests and trapped a certain number of my earliest pullets each season, which would be likely to give me the best layers from hens that had the tendency for Winter egg production, the eggs being gathered in January and hatched in February. I was greatly surprised at the extremely good records some of my pullets were making and likewise surprised at the lack of eggs from some of the best looking specimens in the flock. This convinced me that selection by appearance is apt to be deceptive. I trapped these pullets from July when the first eggs showed up, and the whole flock until along in January. I then mated up this pen, taking out all the pullets that had not made a good record during the Fall and early Winter months. Some of the pullets which were removed from the pen, had

Every HALL Hatch is a Hatch of Profit —

Farmers and poultrymen use an Incubator of 1200 eggs or more capacity to make money. Day old chicks and custom hatching offer a big, profitable, commercial opportunity in every locality. It exists right around YOU. A Hall 1200 will let you start small and grow RIGHT; make your own installations—no tearing out cellar sides or doors; then every hatch means money.

Successful poultrymen and commercial hatchers who always have reliable hatches of healthy, hardy chicks commanding profitable prices, use and endorse as the one machine of constant reliability of profitable production and performance, the

HALL INCUBATOR

Capacities 1,200 to 20,100 Eggs

The Original and Standard Mammoth

that is built genuinely sectional. Illustration shows a 12 Section,

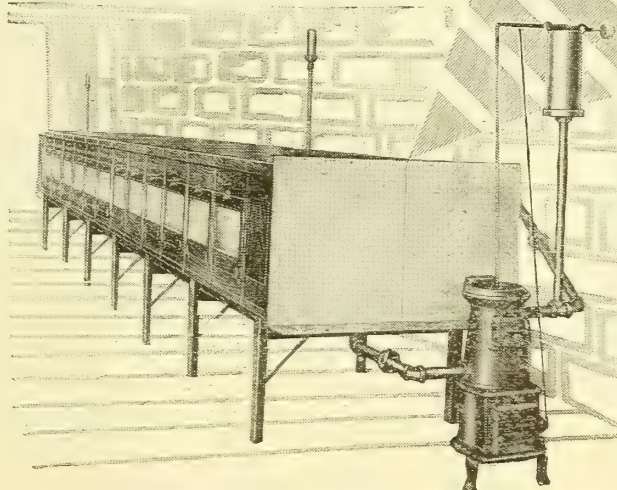
Send the Coupon for
FREE BOOK



3600 Egg Hall—24 Compartment (2 to a section) each holding 150 eggs; each section measures 29 x 24 x 54 inches over all—weighing 75 lbs. Requires a cellar 36 feet long by 10 feet 6 inches wide, though 12 feet wide is preferable; ceiling height should be 7 feet, though special provision can be made for lower ceilings.

giving the success story of nearly 100 hatchers in this new business custom hatching and day old chicks. It also tells what we have learned in nineteen years experience about How to Hatch, Chicken Eugenics, Modern Brooding Methods, Sanitation, Maximum Flock Size, Hatching Cellars, Fuel Costs, Vital Points of Brooding, Chicks Indoors, Chicks Afield, etc. Mail the Coupon now before you mislay this magazine.

Hall Mammoth Incubator Company
107 Southern Avenue, Little Falls, N. Y.



HALL MAMMOTH INCUBATOR COMPANY

107 Southern Ave., Little Falls, N. Y.

Please send me your Free Manual and Equipment Book, without obligating me.

Name

Town

State

Write into Margin if you need space.

not laid over an average of five eggs for a month and about 20 per cent had laid eight and twelve eggs. For the breeding pen I selected only such pullets as had laid better than twenty eggs a month on an average, and mated them with a selected male bird, in the meantime keeping right on with the trapping to round out the year's work.

My intention is to follow out this plan year after year, until I have the Winter egg laying habit a part of the strain. With careful breeding practiced, proper food and housing given the birds, I believe a great deal can be done to increase egg production, tho it will take time.

The natural tendency of a hen, bred to lay or not, is to lay in the Spring months. From such flocks that have made low averages thru the Winter months, are selected eggs for hatching and at least 60 per cent of the eggs are from hens that have not laid at all dur-

ing the Winter. Following that plan year after year is a good way to lose the Winter egg laying habit altogether.

By using the trap nest this can all be avoided. Thru using the trap nest I have found that the hen which laid well thruout the Winter months will not lay as many eggs in the Spring as the hen that has loafed all Winter, and the average flock has a great many of these Winter loafers. For this reason the chicks are mostly hatched from eggs laid by birds which lay only in the Spring.

The utility bird has stood for a lot of abuse and regarded by many as a "cull," unfit to be on exhibition in the show room, but the word utility should mean a great deal more to poultry keepers than fancy, for after all is said and done, the poultry business rests upon utility quality. There is no getting away from that. It means the best in reproducing power and in food product

and that is what the poultry business is. Utility and culls have been associated so long by writers and cranks that they are one and the same to many engaged in the fancy end of the business. But those so thinking are on the wrong road—a road which will lead them out of the business.

To make the most of utility points should be the aim of every breeder of utility fowls. The pens should be mated as carefully as show pens, for the future of real utility in poultry is indeed great. The prices paid for worthwhile utility birds today are as great as for show winners.

I consider strict utility breeding as much a separate line as specialty or exhibition breeding as the results of careful selection and trap nesting of utility fowls has built up some of the best paying flocks on record. In this line of work, the trap nest is essential for de-



Wisconsin Wins in big Hatching Contests Every Year



Year after year these unbeatable Wisconsin Incubators have proved their superiority over all other machines regardless of price. Prize-winning hatches like those shown here prove beyond a doubt that Wisconsin Incubators are the best for the money in the

world. They prove you can't get bigger, better hatches even if you pay twice the price. So why pay more?

In addition to their wonderful hatching dependability, I want to prove to you that Wisconsin Incubators are also the best built, most durable and best equipped machines in the world for the money.

BOTH 130 \$10

EGG Incubator and 130-Chick Brooder Machines for only

PRIZE-WINNING HATCHES

3rd Year

Mrs. J. W. Mize, Vaughan Mills, Ky., won in the Successful Farming Contest, hatching 208 chicks from 208 eggs in two settings.

2nd Year

Mr. C. B. Arter, Ohio, won in the Successful Farming Contest, getting 181 chicks from 181 eggs in two hatches.

1st Year

Mrs. J. Mc Mahan, Veederburg, Ind., won in Missouri Valley Farm Hatchery Contest, hatching 125 chicks from 125 eggs.

4th Year

Mr. F. H. Lewis, Montrose, Pa., won in Successful Farming Contest, getting 96 chicks from 96 eggs one setting.

5th Year

Mr. C. C. Rich, Russiaville, Ind., won in Successful Farming Contest, getting 94 chicks from 94 eggs—the first hatch he ever made with any incubator.

All Won With This WISCONSIN \$10 Outfit

Find out what an Incubator is made of before you buy. If you will write for my free catalog, I will gladly mail you a sample of the lumber we use so you can see the quality and compare it with others. Then you will know which machine is best; which will last longest and which will give you most value for the money.

Why Take Chances? Wisconsin Incubators have double walls.

I build the outer walls of my Incubators of genuine California Redwood—costing four times as much as materials some manufacturers use—and the inner wall is of insulating board with dead air space between the walls—hot water heat, double glass doors, copper tank and boiler, self-regulating. Roomy nursery under egg tray. Incubator is finished in its natural color showing the high grade California Redwood lumber used—not painted to cover up inferior material. Both machines shipped complete with thermometers, lamps, egg tester and book of directions, all set up ready for use when you get them. Freight paid East of the Rockies.

I Give 30 Days' Free Trial—10 Years' Guarantee (6)

Order Direct from this Advertisement—Money Back if Not Satisfied

You can send in your order direct if you wish and save time. Remember you can have 30 days trial with the understanding that if you are not perfectly satisfied, simply write me—send the goods back and I'll not only return your money, but pay the freight charges and charge you nothing. I have been advertising in this paper for years. The publishers know me and know I do just as I agree. I am undoubtedly making the readers of this paper the most remarkable offer on high grade incubators and brooders that has ever appeared in this paper. You take no risk in ordering a Wisconsin direct from this advertisement. Don't buy any other until you get my free catalog. Write for it today.

Thos. J. Collier, Mgr. WISCONSIN INCUBATOR CO., Box 52 Racine, Wis.



termining the results of selection and mating.

A point which should not be overlooked in the trap nesting of fowls is that the close association the attendant has with the birds in handling them keeps his interest to the top notch and he is always quickly aware if there is anything lacking in the state of their health or conditions surrounding them. Too many breeders see their birds only occasionally. By handling the birds daily, there is no possibility of disease, over-fatness or an under-fed condition getting the better of the flock. The man who has the business at heart is right on the job every day, and he knows his birds.

It is claimed by many that Leghorns are wild and flighty. I have found that they are very easily handled and learn to like it, becoming as quiet and gentle as any breed.

The trap nest record, in advertising is too often abused. Egg records have been put up so high by some that the only one who will really believe such statements is the novice who has not yet kept fowls. When we stop to consider that the record to date is 314 eggs and then see advertisements stating that flocks average 300 eggs each, it makes us wonder how long people are going to be fooled by such statements.

The trap nest is the only sure way that the egg record of flocks can be determined and the advancement of the flock in producing power can be brought about. It means work, of course. But who objects to work if the results are satisfactory? No one thing goes to make the poultry business a success, but the many things that combine to make a thriving flock, must be backed by common sense and a love of the work. Nothing without labor is a fact in every line of work, but none more so than poultry keeping. In starting with poultry this fact should be well borne in mind. The beginner will find it of the greatest help to success to trap nest his flock, for he will then know what his birds are doing and be able to spot the loafers, for there are loafers in all flocks, no matter how good the general average of the flock is. The assurance which this work gives the poultry keeper is well worth the extra labor which it entails.

What qualities do you possess which would bear recommendation for ability or credit? Abraham Lincoln was once called upon to recommend a neighbor who wished to open an account with a business firm. Not wishing to refuse, and knowing his man, this is what he wrote:

"I am well acquainted with Mr. — and know his circumstances. First of all, he has a wife and a baby; together they ought to be worth \$50,000 to any man. Secondly, he has an office in which there is a table worth \$1.50, and three chairs worth, say, \$1 each. Last of all there is in one corner, a large rat hole, which will bear looking into. Respectfully,
A. LINCOLN.

BROODER

For \$2.96, including heater, you can build the simplest, most efficient, and most satisfactory brooder ever made. Wind-proof; fire-proof; rat-proof; fool-proof. Can be built in an hour by anyone with no tools but saw and hammer. Illustrated plans, 25c.

L Putnam, Route 105, Elmira, N. Y.

\$2.96

1916 RELIANCE Incubator BARGAINS

Here's the Chance You've Waited For

The four biggest Incubator Bargains ever offered. Buy a 1916 Reliance and get the best. The best built Incubator ever offered. Double Walls—Double top and bottom—Double Glass Door. Hot water heated with heavy copper tank and boiler; has heavy metal safety lamp. Best regulator, thermometer, thermometer holder, egg tray, egg tester, book of instructions. A complete incubator, no extras to buy. So simple that a child can operate it successfully. **And we pay the freight.**

Bargain No. 1—\$5⁵⁰
Reliance 70 Egg Incubator. Worth \$10.00—
Our Freight paid price

Bargain No. 2—\$8⁵⁰
Reliance 150 Egg Incubator. Worth \$15.00—
Our Freight paid price

Bargain No. 3—\$9⁰⁰
Reliance 70 Egg Incubator \$5.50
Reliance 70 Chick Brooder \$4.00
\$9.50
Incubator & Brooder freight paid

Bargain No. 4—\$11⁵⁰
Reliance 150 Egg Incubator \$8.50
Reliance 150 Chick Brooder \$4.00
\$12.50
Incubator & Brooder freight paid

Freight Prepaid

When you compare these bargain prices on Reliance Incubators and Brooders with others, remember that, besides the Big Saving in Price, you save all the freight.

As a special inducement to you WE PAY THE FREIGHT to your R. R. Station east of the Rocky Mountains. This is a Big Concession and means a material saving to you. Don't be fooled by so-called low prices quoted F. O. B. Factory. WE PREPAY the FREIGHT.

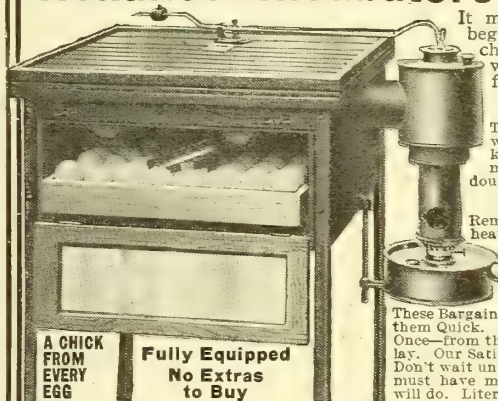
Hatching Guarantee

We guarantee Reliance Incubators to hatch every chick that can be hatched. Reliance Brooders to raise every chick that is worth raising—when operated according to our instructions sent with every Incubator and Brooder.

Money Back Guarantee

We positively Guarantee RELIANCE Incubators and Brooders to be exactly as represented. If any Reliance Incubator or Brooder fails to give PERFECT SATISFACTION, we will take back the machine and REFUND YOUR MONEY.

Reliance Incubators and Brooders



A CHICK FROM EVERY EGG

Fully Equipped No Extras to Buy

It makes no difference whether you are a beginner or have had experience in the chicken raising business—the RELIANCE will bring you success. It will make good for you—the first time—every time.

Best Construction

That's the keynote of our success—the reason we can guarantee the Reliance to make chicken-raising PAY. Made of the best materials money can buy—side walls, top and bottom double thick. Cold can't get in, heat can't get out.

Complete Equipment

Remember—the Reliance Incubator is Hot water heated with heavy copper tank and boiler and is equipped with the best regulator, thermometer, egg tester, lamp, egg trays, complete instructions. Satisfaction guaranteed.

These Bargains Limited—Order Today

These Bargain Offers are our New Year Gift to you. Accept them Quick. Order your Reliance outfit today—Now—at Once—from this advertisement. Don't hesitate—Don't delay. Our Satisfaction Guarantee protects you absolutely. Don't wait until this New Year Offer is withdrawn. If you must have more information, write us quick. A postal will do. Literature and Details sent on application.

Reliance Incubator Co.
Box 50 Freeport, Illinois

Mrs. of Grain Sprouters Incubators and Brooders



J. F. SIEMS, Inventor

Our Million Mark Drive

Over 750,000 People Have Tested My Great Hatcher

They know from experience that in simplicity, ease of management and certainty of results no incubator in the world equals it. The actual, living hens control everything. It's the incubator that can't make mistakes—and you can't make mistakes in operating it.

As Proof Read the Following:

"Your incubator speaks for itself. I got 507 chicks from 540 untested eggs."—G. E. Bengtson, Kansas.
"It beats them all."—Edgar Douglas, Missouri.
"All you claim for it."—W. H. Murrell, Indiana.
"No bother, no worry."—Mrs. A. B. Gorton, Kansas.
"The greatest success of the age."—W. Walker, Ohio.
"I hatched 225 chicks from 240 eggs."—B. A. Barton, Texas.

NATURAL HEN INCUBATOR 200-Egg Size \$3
Costs Only

Artificial incubators cost four times this amount and do not give half such satisfactory results. Remember the Gov't is behind my machine—fully covered by patents. No freight to pay. Agents wanted. To reach the MILLION mark in 1916, we will send you a SPECIAL INTRODUCTORY OFFER with our FREE CATALOG

NATURAL HEN INCUBATOR CO., 1349 Constance Street, Dept. 4 Los Angeles, Cal.

Womans Success With Poultry

Helen T. Woods, Editor

A Department for the Exchange of Helpful Poultry Experiences



WORK, PATIENCE AND A WOMAN'S HELP.

"Hard Work, Early and Late," is One Breeder's Motto, But is Not that the Story of Every Success the World Has Ever Known?

By MRS. A. J. SCHLOEB, Omro, Wis.

VERY excellent advice has been given from time to time for the benefit of those engaged in poultry culture, and it is worthy of notice that experienced poultry raisers do not vary greatly in their opinions as to the essentials for successful poultry farming. Some writers put more emphasis on patience, while another states that in order to make a success with poultry, one must be able to successfully handle any business, but everyone agrees that the poultry keeper to be successful must be willing to work hard, early and late.

I remember reading on a card, placed on a coop of one of the well-known breeders at the Coliseum Show, Chicago, several years ago, something like this: "Hard work, early and late." And it made a lasting impression on me. It gives me inspiration and new strength many times, to remember that card, for I know to a certainty that others have to work as well as myself to get worthwhile results.

Patience! I should say so! Do you ever try to manage a perverse setting

hen? There is nothing more wilful or provoking than a cantankerous old hen who has mapped out her own plan of bringing a family of chicks into the world. She simply refuses to listen to reason, to be coaxed, bamboozled or forced into accepting any other than her

sary for hatching them has passed, but how, friends, shall we know if she be normal? Most of us have met up with a great many broodies that proved themselves, by this rule, to be anything but normal. In counting the costs of raising chicks by the natural method, a great



New brooder house on the Barred Plymouth Rock farm of J. W. Parks, Box J, Altoona, Pa.

own ideas on the subject. She knows the place she wants to sit, she knows when she wants food and recreation, she knows how long she intends remaining broody. The normal hen is said to stay by her eggs until the period neces-

sary amount of time and patience should be taken account of tho a great many tell us it only requires "a few minutes" a day. I think every poultry keeper should have some real method of attending to broodies, for when they do settle down

Cole's Buff Plymouth Rocks

THE STRAIN OF QUALITY

Won best display and Central District Cup at Canton, Ohio, December 28 to January 2, 1916. 1st and 2d Cock, 4th and 5th Hen, 1st, 2d, 3d Cockerel, 1st and 3d Pullet, 1st Pen, in strong competition. Stock for sale. Breeding or Show Birds. I have furnished the winners for many of the leading shows this season. My birds are bred to lay and to win, and contain the best blood lines in America today. Book your egg orders now.

Frank C. Cole

::

Van Wert, Ohio



WETMORE'S WHITE WYANDOTTES

VICTORIOUS WINNINGS

From the great Pan-American Show in 1901 up until the present day, my White Wyandottes have won consistently their share of Sweep Stakes, Championship and coveted prizes. Recent Winners at the National White Wyandotte Club Meet at Buffalo, 1915.

300 GRAND WINNING SHOW BIRDS

The finest I have ever produced are now ready to win blue ribbons for you. In exhibition cocks, hens, cockerels, pullets and pens I can furnish you winners at bargain prices. Liberal guarantee on all Sales. A square deal to all. Buy NOW.

C. S. WETMORE

906 Abbott Road

LACKAWANNA, N. Y.

in good motherly fashion, and attend strictly to business, their services are invaluable. It is advisable always to start a number at one time, and after the first test of eggs to sift the lot down to the "tried and found worthy" ones, who do not soil the nest, break the eggs or leave in a tantrum, and forget to return until the eggs become chilled.

One need not think that trials are greatly lessened by artificial incubation and brooding. There are weeks during the hatching period of turning eggs twice daily, cooling and regulating when one has to keep patience well in hand. The fear of forgetting the eggs while airing them, was such a source of dismay to me that I took to knitting during the waiting periods of attending to the incubators. As the occupation of knitting has always been particularly distasteful to me, I am always glad to lay it aside on time, and return the eggs to the incubator. Result: I have not, since adopting this method, failed to



A Tom Barron Single Comb White Leghorn male as bred by M. H. Waugh, 511 Loucks Ave., Peoria, Ill.

get the eggs back in the machine on time—and my husband gets warm home knit socks for Winter.

When it comes to the care of the baby incubator chicks—beautiful, stupid little mites that they are—it is by sheer patience that they must be taught to care for themselves. To go into the heated chamber when cold, to go out when in search of food, exercise or outdoor air—these are the first lessons to be impressed upon the baby chick's brain cell. And in this respect they are much like humans. Some "catch on" quickly, while others never really know whether they want in or out. The chief thing is to get a few good "leaders," wideawake, happy, hungry chicks, and the flock will usually follow these. At least they have sufficient intelligence to recognize ability in their kind, and that is saying more for them than can be said of some humans.

Yes, the poultry business is a bad place for the individual lacking the virtue of patience. After the chicks are well on their way and individual attention is no longer necessary to their wellbeing, there comes a long wait for their development while the grain bills fail not to appear at stated intervals. Only an optimist thru these months keeps heart and courage well displayed.

At Madison Square Garden, 1916, Houstonia Poultry Farm

Exhibiting our

RED and LIGHT SUSSEX

with 16 entries — we made the remarkable win of

9 Firsts
2 Seconds
3 Thirds
2 Fourths
and best display.



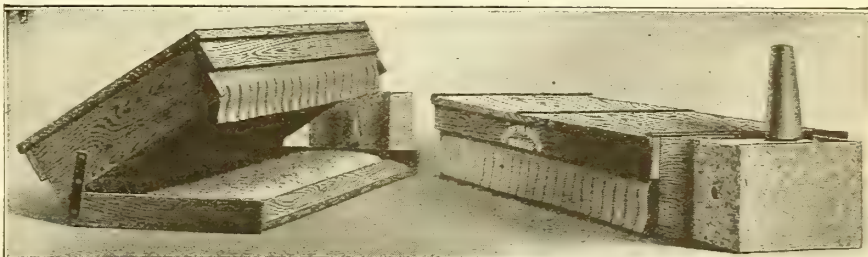
At Chicago Coliseum 1915
we won

9 Firsts, 7 Sec'ds
1 Fourth and
4 Cups as color and
display specials

Pens now mated containing these wonderful birds.

Write for mating list and prices.

Houston & Hofius Dept. A South Charleston, Ohio



Close-To-Nature OPEN-AIR Hovers

The Longest Portable Hovers Now Advertised

Five feet long, warmed evenly by heater on inductive principle. Applies the three Close-To-Nature principles:

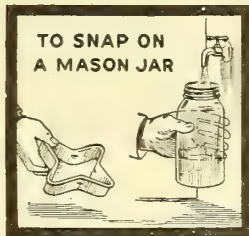
**CONTACT WARMTH, like the hen
OPEN AIR VENTILATION, not hot air
NON-PILING OR OVERCROWDING**

Combines the Fireless with the Lamp—use the lamp for very young chicks and discard it as they grow older; or use lamp during day time but extinguish it when chicks cluster for the night. Hinged for easy cleaning out and airing. Roosting bed of earth or litter, perfectly sanitary. Nothing like these hovers now on the market. Brooders on same principles as hovers. Don't get a brooder or hover until you have read the Close-To-Nature circular. Very low prices.

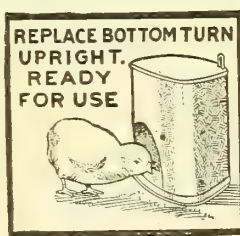
Close-To-Nature Co., 38 Front St., Colfax, Iowa

A FEW OF

Moe's Useful and Inexpensive Inventions FOR THE POULTRY RAISER



No. 32, 10c



No. 9, 25c



No. 11, 15c

If not at your dealers write us mentioning dealers name and we will see that your wants are supplied. above prices your city. Write for complete booklet No. 6. Free to any address.

OTIS & MOE MANUFACTURING CO., 1111 Washington Blvd., CHICAGO, U. S. A.

EGGS AND BABY CHICKS FROM FOGG'S SINGLE COMB WH. LEGHORNS

All our Breeders this season are old birds, they produce the strongest chicks—the kind that live. If you want the most for your money, send for free mating list today. Safe arrival of chicks and eggs guaranteed.

N. V. FOGG : Box R : MT. STERLING, KY.

FARRANT'S Single Comb BROWN LEGHORNS

Again proved their class by winning eight places on eight entries, second best display and Judges' Cup at the Grand Central Palace, N. Y., Show, December 7 to 11, 1915. Show birds that will win for you at prices that are right. Send for circular.

F. M. FARRANT 745 Prairie Ave. KALAMAZOO, MICH.

But the end in view should be worth the effort.

The more I study the *successful* poultryman, the more convinced I become that he is aided and encouraged by "a silent partner," which may be sister, mother or wife. A woman can aid in so many ways in work of this nature that her able and interested assistance is next to a necessity on any successful plant.

To some women, work or interest in poultry is "a bore," but I have usually found that in such cases, the husband gets out of the business in the course of time—and not a great while either.

An interested woman can help wonderfully in the selection of correct specimens for breeding pens, for sales, for exhibition, as color and harmony should be right in her special line. In many instances she has the care of the correspondence, the packing of eggs for hatching, the sale of the commercial eggs, charge of the advertising, trap nesting records and many other matters in the conduct of the business which requires patience and careful work. Just how a man is to get this help from the fair sex of his family is a problem



S. C. White Leghorn cockerel, headed 6th pen at Panama-Pacific Exposition and first pen at Zanesville, Ohio, 1915. Owned by J. W. Friesner & Son, Bremen, Ohio.

which each man must work out for himself. But certain it is, no man must expect good work for any length of time, unless he pays for it. A woman told me not long ago that she intended working more with the poultry this year, as her husband "had raised her pay." Said she: "The better he pays, the more and better I work."

Some men are like the old man who told a friend of his that his wife was always asking for more money, that she wanted a dollar yesterday, and seventy-five cents today, and so on, all the time.

"What does your wife do with all the money?" asked the friend.

"Wall, I dunno. I ain't gin her any yit."

He is a wise man who remunerates in cash and appreciation the members of his household who aid materially in advancing the worth and scope of his business, whether it be by actual labor, useful suggestion, or inspiration.

There is no getting away from it. The women members of the household are important factors to be considered in the conduct of a successful poultry business.



We made a great win. We didn't leave many prizes for the other Anconas to take home, because we were so much better looking, although there were many prize winners from the Panama-Pacific Exposition and other leading shows of the country. Just think! I won first prize for being the very best cockerel in my class. My brothers won second, fourth and fifth prizes. My sisters did fine. They won first, second, fourth and fifth prizes in the pullet class. My mother won first prize for being the best hen, and her sisters won second, fourth and fifth prizes. We were all proud of my father, because he was such a handsome bird. He easily won first prize and his brothers in the first and second prize pen did show up nicely. Every person admired them. Our cousins in the first prize Single Comb pen were the talk of the show. They were so much better than the birds in the long row of pens, that they had no trouble in getting first prize. Their brothers won first and third cockerel and second and third cock. Their sisters won first, third, fourth and fifth pullet; also second, third and fourth in hen class. We won the two gold special prizes for best display on Single Comb and Rose Comb Anconas. We couldn't stop laying during the show. The people would stand around in front of our coops and gathered the eggs as fast as we laid them. It was a great treat for the city folks in New York City to get so many nice large eggs of such excellent flavor. This makes nine consecutive years that we have averaged such a splendid win.

This wonderful win shows the peerless quality of Sheppard's Famous Anconas and again proves that they are the world's best. If you want to win at your show, book your order now for eggs, baby chicks or select stock. Write for 86-page catalog free.

H. Cecil Sheppard Box M2 Berea, Ohio

SATISFACTION STRAIN **BUFF ORPINGTONS** The **WEIGHING — LAYING — PAYING STRAIN**

Have again demonstrated their ability to win in strong company by winning **FIRST PRIZE PEN** and fifth cockerel in the largest and strongest class ever shown in a Chicago Show, January, 1916. For the past six years my birds have won hundreds of prizes at Chicago, Indianapolis, Springfield (Ill.), Illinois State Shows, Birmingham (Ala.), and Knoxville (Tenn.), etc., and in the hands of thousands of customers from coast to coast. See complete list of winnings in catalog.

STOCK Hundreds of cocks, hens, cockerels and pullets for sale for exhibition, breeding or utility. Values which mean profit to you at \$3.00 up. **FEBRUARY SPECIAL OFFER**—Five \$5.00 pullets correctly mated to a \$10.00 cockerel only \$27.50. Satisfaction guaranteed on every shipment.

1916 BUFF ORPINGTON GUIDE BOOK tells all you ought to know about the finest Buff Orpington Fowls, describes 21 special mated yards, fully-illustrated and gives prices on Stock, Eggs and Chicks. You should get this book and learn all about these wonderful birds. Write now for your copy. Address

F. A. KAUP, Buff Orpington Farm, - Box K-1 - Glen Ellyn, Ill.

**MADISON
SQUARE
GARDEN
WINNERS**

SCRANTON'S SINGLE COMB RHODE ISLAND REDS

Have been tried before the **highest tribunal** and found guilty of carrying away the most coveted prizes from America's premier show, **Madison Square Garden**.

They won in the strongest competition possible—**first** and third pen, **first** cockerel, second and fourth pullet, fourth hen, color special on male, **best display** with more than twice as many points as my nearest competitor and grand special for the **champion S. C. Red** of the show.

Have fifteen of the best matings this season ever in my yards. Mating list ready February 10. A copy is yours for the asking.

B. H. SCRANTON Box 350 RISING SUN, INDIANA

Our 44 YEAR 1872-1916 Record Backs up this Offer

We **GUARANTEE** to build up Your Breeding Stock, to give Strength and Vitality, and to Secure Egg Fertility, so you will hatch strong Livable chicks — or **YOUR MONEY BACK**

This successful Breeder has used **Pratts Poultry Regulator** over 20 years.

Olean, N. Y., Feb. 26, 1914

We have used **Pratts Poultry Regulator** for over Twenty Years. The first we ever used was given us by a man who saw our chickens in a very bad condition. One after another would die until we had only a few left, but in a day or so **Pratts Poultry Regulator** started to get in its good work. Since then we have never been without it nor are we bothered with sick chickens if it is fed with the first feeding. Our troubles soon ended when **Pratts Regulator** came to our rescue.

E. B. DAVIS

Makes Hens lay even in February

Petros, Tenn., Feb. 27, 1914

Only two out of 11 Leghorn Hens were laying, when I bought **Pratts Poultry Regulator**. I have been using it one week and now all 11 of the hens are laying. I would not give **Pratts** for all other poultry remedies.

W. A. BUNCH

Pratts has never failed to make his hens lay.

Utica, N. Y., Jan. 19, 1915

I have never had a hen or pullet that would not lay in cold weather after feeding **Pratts Poultry Regulator** and always get eggs when they are the highest. I have sold eggs at 85c a dozen, thanks to **Pratts Poultry Regulator**. I have recommended it to a number of my friends and they are using it with great success. I would not be without it.

H. B. MORGAN

Lots of Eggs from a small Flock

Phila., March 15, 1915

Pratts Poultry Regulator keeps the chickens healthy and in laying condition. I am receiving 9, 10, 12 and 15 eggs every day. I used to receive only 2 or 3 a day.

GEORGE FREEMAN

FEBRUARY

The Poultryman's most important month.

You can largely determine the success of your season's operations NOW.

You must have the right kind of eggs for hatching—eggs which are strongly fertilized and will hatch vigorous, livable chicks. Such eggs are produced only by breeding stock possessing abounding health, strength and stamina.

Pratts Poultry Regulator

will surely and quickly put your flock into this condition. We guarantee it.

This time-tested tonic for poultry tones up the system, sharpens the appetite, aids the digestion, purifies the blood, prevents disease. It puts the breeding fowls in condition to produce the best eggs for hatching—makes the chicks grow rapidly—enables them to avoid the common ills of chick life—eliminates loss and swells profit. **Pratts Poultry Regulator** is not at all expensive—

Costs only a Cent per Hen per Month

It is a natural egg producer. Prevents the usual February drop and keeps the hens laying steadily

Test **Pratts Poultry Regulator** Now

Our liberal guarantee protects you fully. If you are not satisfied with results, merely ask for your money back.

Pratts Poultry Regulator is the original. Its use is world wide. Leading poultrymen find it just what their flocks need the year round. Read the letters in the left-hand column. We have thousands of others—unsolicited.

Most dealers carry **Pratts Poultry Preparations**. If your dealer cannot supply you, write to us direct.

"The Poultryman's Complete Handbook" contains 160 pages of practical information and illustrations. It will be a great help to you. Send ten cents for copy post paid.

PRATT FOOD COMPANY

PHILADELPHIA

CHICAGO

TORONTO

Pratts Baby Chick Food

Guaranteed to raise every livable chick. A complete food for the first three weeks and longer. The most wonderful discovery in Baby Chick Feeding. Exclusively adopted on leading farms where it is bought by the ton for their thousands of chicks. The chicks it saves pays many times over its small cost of a cent a chick for three weeks. 100 lbs. \$5.75, 25 lbs. \$1.50, 14 lbs. \$1.00. Large 50c and 25c packages.

"I cannot say too much in favor of **Pratts Baby Chick Food** for baby chicks. For starting them, it certainly produces wonderful results and no need of losing any chicks."—Mr. LESTER TOMPKINS, famous breeder of Rhode Island Reds.

Pratts Powdered Lice Killer

A non-poisonous, non-irritating powder which is sure death to lice, mites and vermin. Especially valuable during the hatching season, protects the sitting hen and her chicks. In 50c and 25c sifter top cans.

Pratts Poultry Disinfectant

A liquid Lice Killer, powerful germicide, antiseptic and deodorant. Will destroy roup and other disease germs. Also especially valuable for treatment of colds, canker and other serious poultry diseases.

Diluted ready for use, it costs only about a cent a gallon. No other preparation of equal strength at anything like the price. One gallon \$1.00, one quart 35c.

Pratts Roup Remedy

Roup can be cured and here is the remedy to do it. Also for colds, diphtheria, and all similar diseases. Put up in tablet or powder form. Tablets make individual treatment easy and certain. \$1.00, 50c and 25c per box.

408



Questions and Answers

Conducted by
Prince F. Woods, M. D.



To Our Correspondents.

A good many of you have been disappointed since November last because we have been unable to grant your request and make a personal reply by mail. Our correspondence has been so uncommonly heavy, the queries and repeats have been so many, that, with the considerable work of getting out our big winter issues, it has been absolutely impossible for us to find time to answer query letters by mail, except in a few unusual cases where the matter seemed particularly urgent. In our long experience we have never before had such a great volume of query letters at this season.

We have tried to sort these letters and answer as many as possible of the more important queries in this department, but there were a good many that we did not—could not—cover. There is much to be done in the preparation of reading matter for AMERICAN POULTRY JOURNAL, and a very great deal of the work has to be done by one man and cannot be turned over to an assistant, — the goodness knows the assistants are busy too—so we must ask your patience and indulgence. You will find in all departments of the AMERICAN POULTRY JOURNAL, and in the articles and editorials, that special attention is given to explaining and

demonstrating many interesting features of poultry work. If you do not find an answer to your query in this department, read over your Journals carefully and you will undoubtedly find your query covered somewhere. Meanwhile, consider that we are doing our best to interest, instruct, help and please you. We are endeavoring to "deliver the goods" and we are not sparing time, labor, or expense.

Breed Articles.

Q. (1) I have read with much interest the articles "Why I Breed Black Minorcas." Why, if the S. C. Black Minorcas are as good as the writers claim, do not large egg farms use them in preference to S. C. White Leghorns?

A. (1) When we began publishing the breed contest articles we expected to get questions just like yours. The query is a perfectly natural one. When a breeder writes about his favorite variety he is certain to enthuse over it. It is natural and honest enthusiasm, and, we believe that, in essentials, what has been said of the Black Minorcas is true,—tho much the same thing can be said with truth of other breeds. So far as our knowledge of them goes, the Black Minorcas have been boosted mainly in the fancy and no very great effort has

been made to establish them as an egg farm fowl. White Leghorns have been consistently bred for and boosted as egg machines ever since we can remember. That is one answer to your query, but it isn't all.

Minorcas are hardy and prolific layers of fine large white eggs when properly bred and managed. At times they have been bred a little too beefy in comb, but there are plenty of good Black Minorcas that are just as beautiful and just as useful as any other variety, and just as fine table poultry. For some reason, and it is largely prejudice and not based on sound reasoning, a good many people are not favorably inclined toward black feathered, black legged chickens; altho the same people will enthuse over, and pay high prices for turkey. We don't know why, but it is so. We like Minorcas and had good results with them when we bred them. Some strains are more hardy than others, but that is true of most breeds. We have noticed that unless well cared for and well managed, Minorcas are apt to lay themselves out of condition. That is the fault of the poultry keeper and not of the breed. Some folks claim that they are a bit delicate and will not stand bleak seashore locations. We do not believe that, for we have seen fine hardy Minorcas



FIRST PRIZE COCKEREL AND CHAMPION WHITE LEGHORN MALE
PANAMA-PACIFIC INTERNATIONAL EXPOSITION NOVEMBER 1915
BRED AND OWNED BY JOSE B. MARTIN, DOWNEY, CAL.

First Prize Cockerel and Champion White Leghorn Male, World's Fair, San Francisco, 1915.

SINGLE COMB WH. LEGHORNS

AT THE PANAMA-PACIFIC INTERNATIONAL EXPOSITION 1915

WE WON EVERY FIRST PRIZE—All Specials

26 BIRDS ENTERED — 23 WON PRIZES

JUDGE: IRVING F. RICE of NEW YORK

We Bred and Raised Every Bird Exhibited.

Our Birds have been line-bred for 23 years. Are Trapnested and bred for high Egg production. Eggs for hatching in season. Stock shipped East, West, North or South, without effecting health or vigor. Eggs shipped safely any distance. Write for FREE MATING LIST.

Our Specialty: EXHIBITION, BREEDING and Foundation Stock

RANCHO DEL MARTINO

MRS. E. B. MARTIN

DOWNEY, CALIFORNIA

SWEEPING VICTORY at M. S. Garden, Jan. 1916

(International Partridge Rock Club Show)

(National Bronze Turkey Club Show)

Partridge Rocks

Win 4 of 5 Firsts, 11 other regular prizes, and 25 of 36

Specials. Make 6th consecutive and Greatest win ever made at M. S. Garden. Stock always for sale. Eggs. Catalog for stamp.

BIRD BROS.

Box C

Bronze Turkeys

Win every First and Second Prize and 16 of 18 Specials. Make 9th

and Greatest competitive win ever made at Madison Square Garden. Stock always for sale. Eggs. Catalog for stamp.

MEYERSDALE, PA.

grown right on the Maine coast. The hardiness is a matter of breeding, care and management. One who likes a big bodied, clean legged black fowl should find Black Minorcas very satisfactory.

Q. (2) I have 125 S. C. White Leghorns in an open-front house, built on Corning plan, size 16x30 ft. Sixty-four of these pullets were hatched April 23 and sixty-one were hatched May 17. I incubated 408 eggs to get this lot of pullets. In September, they laid 37 eggs; in October, 526 eggs; in November, 1,431 eggs, and to December 15, 812 eggs. This is my first year with poultry and I do not know whether this record is good or bad, but they tell me that I am the only man for miles around here that is getting anything like the right egg yield for the size of the flock. Is this so?

A. (2) You are getting a good egg yield.

Q. (3) Could I do as well with Black Minorcas?

A. (3) You probably could.

Q. (4) Would you advise me to change to Black Minorcas? My only reason for changing is that some people complain of the smallness of the Leghorn eggs and the light color of yolks. Can these defects in the Leghorns be remedied?

Akron, Ohio.

O. S.

A. (4) If you have no other reasons for wanting to make a change, we certainly would not advise you to make one. You have a good start with Leghorns, by careful selection and breeding you can get larger eggs. We have no difficulty in getting eggs that run from 2 ounces to 2½ ounces each from our Leghorns. The color of the yolks is largely a matter of feeding. We get nice rich colored yolks from our birds and we feed a good deal of yellow corn, alfalfa, greens, and fish scraps. Cut clover is a splendid food to help put a good orange yellow into the yolks. With our Leghorns we select good sized eggs for hatching and we find that some of our best layers are fairly large sized

"Less Labor and Expense"

with our Blue Hen Colony Brooder and results are very satisfactory. Cost of operation only a trifle. In three hatchings of thoroughbred White Leghorns cared for by our faithful Blue Hen, lost only 2% of chicks—almost a perfect record.—Porter & Zimmerman, Patoka, Ill.

Burns hard or soft coal or gas. Large grate 2½ times usual size. Means big fire surface and thin layer of ashes. Steady, even, economical fire. Automatic regulator.

Blue Hen

Hot Air Colony Brooder

is the only brooder with newly invented curtain attachments that assure fresh air without drafts. As large as any \$30 brooder. Get the BLUE HEN BOOK FREE, and learn why the "Blue Hen Raises More Chicks at Less Cost."

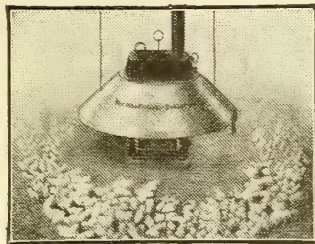
GUARANTEED SATISFACTORY OR MONEY BACK.
Special proposition to dealers or agents.



Watson Mfg. Co.

Drawer 21
LANCASTER, PA.

Mrs. of "Blue Hen" line—Brooders (Hot water, Hot air) Round Tray Incubators, Round Tray Mammoth Incubators.



30 DAYS FREE TRIAL

Hill Colony Brooder, \$30 Magic Col'y Brooder, \$15

We, the undersigned, wish to inform every poultry raiser in America that the Hill Colony and Magic Brooders are absolutely reliable. They have no equal. They are not made like other brooders. They possess many improvements not found in other makes. If a brooder leaks

gas and will not hold the fire, of what use is it to you? Be careful when selecting a brooder, as you are deciding your own fate.

The vital parts of a brooder are the grate, the fire box, the coal magazine, the gas proof chamber, the check dampers, the capacity, etc. We will cheerfully refund the money after thirty days trial if our brooders do not do all we claim.

If you wish to succeed you must have brooders which will do the work. Write today for circulars describing same. We will also mail you our brooder booklet, free.

Address **UNITED BROODER CO.**

TRENTON, NEW JERSEY

BABY CHICKS

White and Black Leghorns - 9c
Barred Rocks and R. I. Reds - 10c

By 100—order direct from this ad. Satisfaction Guaranteed.
THORNWOOD POULTRY YARDS

C. A. Sims, Mgr.

CRANDALL, INDIANA

You Can Pay More but no one can furnish you Better Stock at any price.

Birds that Win Are Birds that Pay

EXHIBITING OUR WHITE WYANDOTTES

at America's two great shows, Boston and Madison Square Garden, 1916, in the very hottest of competition, we won at Boston 1-4-5 pullet, 4 cock, 6 hen, 4 pen, \$100.00 champion challenge cup, two specials for best female. At Madison Square Garden, 2 cock, 3-4 cockerel, 2-3 pullet, 5 hen, 5 pen, 2nd display. Send for mating list, it contains a complete list of other great winnings, including the Palace Show, N. Y. When you buy from us, you buy the experience of 16 years of careful breeding and consistent winning.

The White Wyandotte Poultry Yards, H. J. W. Fay, Prop. Westborough, Mass.

Partridge Rocks Single Comb Brown Leghorns

My birds won 1st, 2d and 3d Prizes at the Greater Chicago Show, January, 1916; also Clean Sweep at Grand Rapids, Mich., same week.

Stock and Eggs. Prices Lowest. Mating List Free.

E. A. CROTSEY Box 12 Fulton, Mich.

Single Comb Reds of Quality

Winners at Champaign, Terre Haute, Monticello, Illinois State Fair and Decatur. Birds of grand color and type. Wonderful head-points. Stock for sale. Every bird guaranteed. Eggs in season. FREE booklet. We announce a very high-class mating list for the coming season, for each and every pen will contain birds that have won in the very strongest competition, which include the following shows: Chicago Coliseum, Illinois State Fair, Terre Haute, Champaign, Decatur, Blue Mound and Monticello shows.

JOHN STIARWALT

833 E. Wood St., Decatur, Ill.

Help Supply the Demand for CANDEE Hot Water Hatched Baby Chicks

Candee operators can add extra sections any time without changing the outfit. Larger heater FREE.

**Refused
Order for
200,000**

"In 1912 we installed our first Candee Incubator with capacity of 3000 eggs. We proved that eggs could be hatched at one-fifth the cost of hatching by lamp machines.

..... We started custom hatching and then baby chick business and increased our capacity each succeeding year until now we have a capacity of 25,000 eggs each setting. The demand for Candee Hatched Chicks is Growing. We refused one order for 200,000 but accepted one for 65,000 for 1916. With our Candee

Brooding System our loss is less than 3% at weaning age."—H. L. Holsinger, Mgr.

Summit Poultry Farms. This extract is from page 79 of our

Letters from Candee operators indicate that there is a good opportunity in every locality for a custom hatchery and baby chick business

Also
Ask us
About the

**CANDEE
Coal Burning
Colony Brooder**

**CANDEE
Incubator & Brooder Co.**

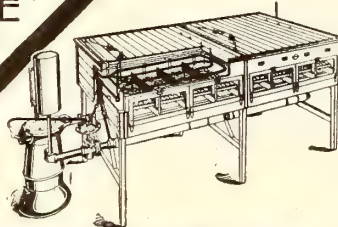
Dep. 2 EASTWOOD, New York

Licensed by

W. A. SCHLEIT MANUFACTURING CO., Inc.

**Big Illustrated
Catalog FREE**

Every poultry operator will profit by what it tells about others.



Poultry health insured

Use Carbo Units to support your poultry yard fence. They are mite-proof steel—do not harbor nor breed vermin, dirt, filth or disease. No wood to rot or gather dampness.

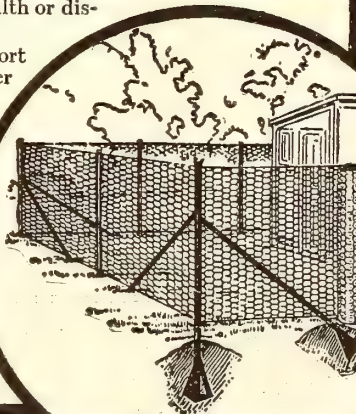
With heavier style Carbo Units you can support farm sheds, chicken houses, garage, or other buildings.

Three Carbo Units make a fence corner that will outlast the fencing wire. No concrete used, as Carbo Units are set in earth only, sub-soil anchored and earth cushioned. Never buckle at the ground line or shear off. Carbo Units are less expensive than wood posts, concrete, or semi-steel posts—occupy 1-10th the space of wood posts. Are easy to set; merely bore a hole and set in unit; tamp earth, and Unit is there to stay. Life is five to ten times that of wood.

For supporting fencing between terminals, use Carbo Spring Supports. Write for Catalog 16, which tells about Carbo Units, and their 101 uses about the farm.

THE CARBO CORPORATION
201 Rand-McNally Bldg. Chicago, Ill.

CARBO
TRADE MARK REGISTERED
for strength



STOP THAT ROUP!

Roup starts as a simple cold in the head. The indications are watery eyes or nostrils, dirty beak, wheezing or coughing at night. Later the discharge becomes a thick mucus. A chicken cannot blow its nose. The nasal passages fill up. The face puffs out, the eyes swell shut, then death ensues. This disease is generally accompanied by "canker," a yellow or gray coating in mouth, throat or on tongue, which is similar to croup or diphtheria and is very contagious and fatal. The original cause is a damp or drafty poultry house, or extreme changes in temperature between night and day. A little Germozone in the drinking water generally prevents or checks these disorders right at the start and is especially valuable in preventing contagion. Sometimes individual treatment is necessary, but, with Germozone, the work is easily and quickly done and no long, tedious "doctoring" necessary.

Liquid form, 12 oz., 50c; 32 oz., \$1.00. Tablet form, one size only, 50c, postpaid. Catalog, poultry book and sample free.

GEO. H. LEE CO.

302 Lee Bldg.

Omaha, Nebraska



hens producing good sized eggs. After the first few pullet eggs we rarely get small eggs.

The Best Breed.

Q. I am a beginner and want to make a start with poultry. The more I read about breeds the more confused I get. I want to start with the best breed, but it seems to me that every breeder claims that his breed is the best. I want a nice breed of chickens to grow on a farm, some that will look well, lay well and eat well on the table. What breed do you recommend for me? Fair Hill, Md.

A. We honestly do not know what is the best breed, we have bred nearly all of the popular varieties and have found them all good. Individual tastes differ and what suits us might not suit you. There is a chance for very wide differences of opinion on all questions of beauty. In practical values for eggs and meat, almost any of the large and medium sized breeds can be bred and managed to yield fine results. If eggs alone are wanted, and size of the fowl is no particular object, the choice narrows down to a few breeds. But we do not want the responsibility of selecting a breed to please some one else. Look around you, visit the shows, visit a number of poultry breeders,—you are certain to see something that appeals to your fancy. When you see a breed or variety that you want to breed and grow, then go to it. You can mould that breed into a strain that will suit you all thru and you will have a lot of enjoyment while you are about it. There is no such thing as a one best breed.

Crooked Breast Bone.

Q. I have a cockerel that is large and has good color and shape, but I never herd him crow or saw him pay any attention to the hens, he just stands back while they eat. He has a crooked breast bone. He is large and looks as if he would be fully up to weight when he gets grown. Would he be fit to breed from? I wanted to use him next month. Piggott, Ark.

A. We would not consider breeding the cockerel until he is fully grown and matured. If the crook in the breast bone is only slight and known to be the result of mechanical injury and not due to faulty development, or lack of vigor during growth, you might use him when fully matured. Usually crooked breast bone is a sign of impaired constitutional vigor at some period of growth and we consider such specimens deformed and are opposed to breeding them. There are enough poor chickens grown without breeding one that is known to possess a serious defect.

Avoid Chick Losses

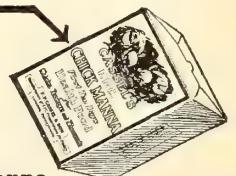
You will suffer no loss from dead or stunted chicks if you feed entirely for first 10 days on

F. P. C. Chick Manna

Standard Since 1894

Keeps baby Chicks, Turkeys and Pheasants healthy and hearty until they can digest ordinary food. At your dealer's, or write direct for offer of trial package by parcel post. Satisfaction or money back.

F. P. Cassel & Son
Lansdale, Pa.
A-9 Main St.



Eye Troubles.

Q. (1) I have a flock of pullets and hens, nearly all Anconas, but some Rhode Island Reds. They are housed in an open-front well-ventilated house, which is cleaned regularly and litter changed about once a week. They have an ailment I cannot understand. It does not seem to be a cold or anything like it. At corner of one eye it seems to start with a little soreness, and it just keeps getting larger until the eye is closed. No swelling, no odor of any kind. They eat but very little. They get droopy for several days before the eye trouble shows. Some of my best birds have this trouble. I have dipped their heads in a disinfectant solution and used vaseline, but it does not seem to do any good. When the eye is closed, sometimes a scab forms. There is no discharge from eyes or nostrils.

Dudley, Iowa. T. J.

A. Be careful to avoid musty or mouldy litter. Do not use litter too deep or allow it to become damp. Clean up the poultry house and use some crude petroleum oil to lay the dust. Put it on with a sprinkler and rake it in. For the affected birds obtain from your druggist some 25% argyrol solution. Cleanse the eyes with warm water and then drop in each eye a few drops of the solution. Repeat daily, or twice daily, until there is improvement and then use less often. Feed the birds an appetizing moist mash once daily until they get into better condition. The 25% argyrol solution should be freshly prepared.

Feeding Boiled Oats.

Q. A poultryman tells me that my feeding boiled oats to my chickens will lead to disaster. I supposed that by boiling them I was making them more fit to use in a wet mash for my chickens. Am I right or wrong?

A. Boiled oats won't hurt your chickens if you feed a good variety of other food. When oats are light in weight and not well filled, about the only fit way to feed them is boiled or well soaked and scalded. As long as you do not overdo the feeding of cooked food, you are safe enough.

Several Questions About Roup.

Q. (1) I have a cockerel that got out of his pen last spring, just after the breeding season and ran with a large flock of hens. At times for a while his comb would turn dark in color, but otherwise he seems all right. He has run on range all summer and seems real healthy this winter. His chicks have done very well. Would you advise using him another year?

A. (1) Probably the trouble was only due to worms. If he is healthy and vigorous and what you want to breed from, see no objection to breeding him.

Q. (2) Would the cockerel be all right to put with yearling hens?

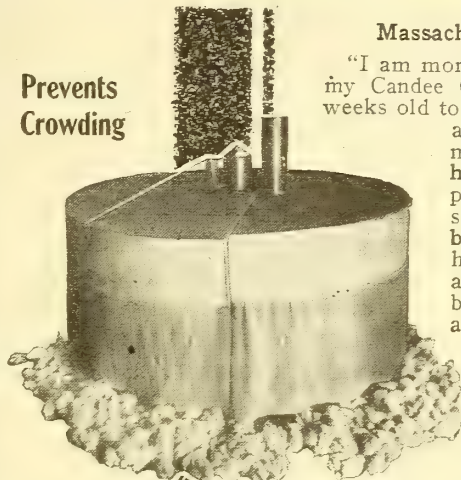
A. (2) He is a yearling, not a cockerel, but he should be all right with yearling or two-year-old hens.

Q. (3) I had a few cases of roup and quite a number of colds in my flock. Killed all the worst ones and marketed the rest. Those with colds only showed a bit of white froth in corners of eyes. Will they be likely to have roup later? They did not run any at nose, eyes or mouth.

A. (3) If you marketed them, we cannot see how it matters. Slight colds do not necessarily result in roup, if the birds are well housed and well cared for.

Better Brooding Results in All Parts of the Country Under Various Weather Conditions

**Prevents
Crowding**

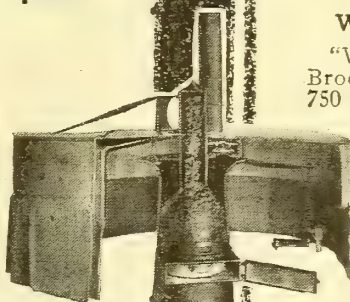


**Saves
Chicks**

**CANDEE
COLONY
BROODER**

CAST IRON
COAL BURNING-Self REGULATING

**Easy
to
Operate**



**Ask for
CANDEE
Incubator
Catalog
Also**

Massachusetts—"Did Better Than Hen"

"I am more than pleased with the results from my Candee Colony Brooder. The chicks are six weeks old today and some of them weigh 1 1/4 lbs. and the lot will average 1 lb. each. I made a test in a small way. I put 18 hen-hatched chicks with hen and placed outside the brooder house. The same day I put 200 chicks with the brooder. At the end of one week the hen had 11 chicks and the Candee 196, all of which are alive today. The 4 the brooder lost picked each other's eyes and went blind and could not see to eat."

Harry Watson,
May 27, 1915. Montague City, Mass.

New York—600 Chicks, No Loss

"We have 600 chicks under one Candee Colony Brooder and have not as yet lost a chick. They are about 2 weeks old. Never saw chicks grow as they are growing."

J. H. Matthews & Son,
April 20, 1915.

So. New Berlin, N. Y.

Ohio—Wouldn't Sell Two for \$500

"In November we installed two of your Colony Brooders, and five hundred dollars could not buy them if we could not get two more like them. We have had zero weather and also very warm weather, and the Candee can't be beat."

J. D. Wilsey,
March 17, 1915. Grove City, Ohio.

Iowa—Lost Six in Six Weeks

"I put 251 chicks with my Colony Brooder, 3 ages one week apart, and only lost 6 in six weeks. If it had not been for the steady, even heat from the Candee, I would have had quite a loss, as we had some snappy weather in March."

R. Brookman,
April 2, 1915. Creston, Iowa.

Washington—3,200 Chicks in Four Candees

"We are well pleased with the four Candee Brooders. We now have 3,200 chicks under them, 750 to each brooder, and at three weeks have lost less than 7 per cent. So that speaks well for your brooder."

Anthony Bros.,
April 27, 1915. Seattle, Wash.

Candee has larger fire pot, 12-inch grate, coal magazine feed, automatic regulator, all-wool curtain and big roomy hover. No crowding loss.

Get Big Illustrated 1916 Catalog FREE

with many illustrations of plants and equipment and more proof from users that the Candee is the Brooder that will make your poultry raising most profitable.

CANDEE INCUBATOR & BROODER CO.,
Dept. 2 EASTWOOD, N. Y.

Licensed by W. A. Schleit Mfg. Co., Inc.



OWEN FARMS

**Buff and White Orpingtons
White Plymouth Rocks
S. C. Rhode Island Reds
White Wyandottes and
S. C. White Leghorns**



Have proved they have no superiors. They have made good in the show room, the breeding pen, the laying pen. They have demonstrated that they live, grow, lay and pay.

1916 Matings

Are better and stronger than ever before. Never before in the history of the Farms have the minor details been so perfect in every male and female as they are today. My new Mating List will give you a careful word picture of every male used in my best pens and a general description of all females. Every mating in White Plymouth Rocks, White Wyandottes and White Leghorns has been put together by the master hand of Frank H. Davey. Every mating in Buff Orpingtons, White Orpingtons and S. C. Rhode Island Reds has been made by Maurice F. Delano. Our combined experience in successfully breeding strong, healthy, winning birds amounts to nearly SIXTY YEARS. This experience means much to us and should mean something to you.



First Prize Ckl., New York, 1914

1916 Mating List

Tells the story and will be ably seconded by my grand new Catalog, which will be out early in February. You cannot afford to purchase eggs in my varieties without sending for these books and carefully considering Owen Farms quality. My customers have won highest honors all over the country with chicks raised from my eggs, and 1916 quality is better than ever. Owen Farms guarantee is original, and different, and really means something.

Eggs from the Best Matings in America

\$10.00 for 15. \$30.00 for 50. \$50.00 for 100

Eggs from Grand Good Matings

\$5.00 for 15. \$15.00 for 50. \$25.00 for 100

No reserved matings. If you must have eggs from special pens they are yours at prices stated in Mating List.



1915-16 Winnings:

BUFF ORPINGTONS

At Madison Square Garden, New York, in the Best Quality Buff Class Ever Cooped

1st and 4th Pen; 2nd and 4th Cock; 1st and 5th Hen; 2nd and 4th Cockerel; 1st Pullet, and 1st Collection by a very wide margin. The TENTH OUTSTANDING BUFF WINNING during the past thirteen years Owen Farms birds have made at this great show.

WHITE ORPINGTONS

At the Great Palace Show, New York

1st, 2nd, 4th Cock; 1st, 2nd, 3rd, 5th Hen; 1st, 2nd, 4th Cockerel; 1st, 5th Pullet; 1st, 2nd, 3rd Pen and ALL SPECIALS. The strongest team we ever showed. Our customers will win at the other leading shows.

Q. (4) Will chickens hatched from eggs laid by those hens that had colds or slight roup, be more likely to have colds than those hatched from eggs of birds that never were sick?

A. (4) We believe that they will.

Q. (5) What causes some hens to go light and turn pale or yellow about face and comb? They usually die in a few days.

A. (5) It is usually the result of some infectious disease and indicates that the houses and earth of runs and floors are in need of thoro renovation and disinfection.

Q. (6) Have been using a roup cure in the water and have removed all very sick birds. Most of the birds are well and no new cases have developed. What else would you advise doing?

New Phila., Ill.

R. U.

A. (6) Clean up and disinfect the quarters. Continue treatment until you are sure the trouble is over. Get plenty of fresh air into the buildings. Feed liberally on a variety of wholesome food. You seem to have the best of it and to be on the road to getting rid of the trouble. Would burn all litter and nesting material and make the cleaning and disinfecting a good thoro job.

Feeding Questions.

Q. (1) I am an amateur and want a little information. I have purchased about two tons of wheat at \$1.00 per hundred pounds, and also oats at same price. Corn is very hard to get. In fact, for past two months have been unable to buy any. When it is available it sells at \$2.25 per hundred. Owing to the difficulty in obtaining corn and the high price demanded, I have been feeding only whole wheat in litter morning and night. In the dry mash I have: 100 ground barley, 100 ground oats, 150 ground wheat, 50 beef scraps, 25 gluten meal, 15 oil meal, 10 charcoal, 25 alfalfa meal and 3 salt. I also feed about 2½ pounds for every ten birds of soured skim milk, from which the whey has been strained. They have all the green stuff they will eat. Have been getting a 30% egg yield, with half the hens in moult. Would it be profitable to buy corn for feeding at \$2.25 per hundred, and would it increase the percent egg yield? Do you think my ration well balanced?

A. (1) Your ration appears to be well balanced with the available material and you are getting good results. Under the circumstances we would not buy corn. We would, however, feed some oats in the litter and if barley is to be had at same prices, would add barley to the scratch grain ration. Proportion to be determined by appetite of the birds.

Q. (2) When feeding with automatic feeders do you leave them within reach of the chickens at all times?

Stevensville, Mont.

S. K.

A. (2) We do. We certainly would like to be able to buy good feeding wheat and good oats at the prices you buy. Wheat costs us at present time \$2.15 per hundred; oats, \$1.20 per 64 pounds, and corn, \$1.72 per hundred.

Diagnosis Wanted.

Q. I have been having serious trouble with my flock all summer and fall. The comb and wattles of the affected birds usually take on a purplish tinge, tho occasionally one is merely pale. In cases at all advanced the skin all over the body has the same purplish hue;

this color being beneath the skin. They gradually waste away until scarcely any flesh is left, this is more noticeable on the breast bone, which becomes almost bare of flesh. There are no symptoms of cold, roup or canker and the birds retain their appetite to the last. They linger for weeks or months unless killed, but never recover. These chickens apparently had a good chance. They were liberally fed, housed in colony houses and not crowded. Part were in a yard of about two acres planted to corn and asparagus, with some apple trees for shade. This was new ground for chickens. The rest had the run of the farm where chickens had been kept for years. The houses were cleaned and disinfected before the chickens were put in. I opened some of the affected birds but could see nothing abnormal. As I wish to continue in the business I would like to know how to prevent a recurrence of the disease, if it is a disease. Also whether it is contagious thru the ground or only from individual to individual. Is it safe to breed from flocks that have lost part of their number from this trouble? I have been told that the trouble might be coccidiosis, but that does not seem to be discussed in any work I have on poultry diseases. Will be glad to have any information you can give.

Northboro, Mass. H. F. A.

A. This is one of the cases that is not possible to diagnose without seeing the birds and looking over the premises. We should send some of the affected birds to the State Station at Amherst for laboratory diagnosis. Coccidiosis in chickens is a disease caused by a parasitic protozoan organism. By some this *coccidia* is blamed for white diarrhoea and also for "blackhead" in turkeys and fowls. If your birds had coccidiosis, which is a contagious disease of intestines and liver, we would expect to find you reporting the symptom diarrhoea; but you do not mention any diarrhoea. Where fowls and chickens contract this disease they usually get it from infected turkeys, or from fouled soil where diseased turkeys have run. The wasting of flesh and blue or purple tinge to comb and skin is observed in other contagious (usually parasitic) diseases where intestines, liver or lungs are seriously involved. Certainly would not breed from any part of that flock. Would clean up and thoroly disinfect the poultry quarters and would dress that land well with air slaked lime this winter and plow it deep in spring. Crop it well to sweeten it. Would not use any surface water, or water from brook or river in your neighborhood, for watering stock. The infection is probably thru contaminated drinking water or food, and from the soil. Fowls are such careless and voracious feeders that they usually mix in a lot of earth and other dirt with their food. If possible, after thoro disinfection and whitewashing of poultry houses, would move them to a part of farm not used before by poultry. Would like a further report.

Warm Water—Get Eggs

A Little Putnam Stove keeps water for poultry unfrozen in zero weather; 9 inches diameter, 4 inches high; holds 3 pints of oil and burns a month without refilling; never needs trimming; prevents frosted combs; increased eggs pay for stove in 30 days; fire proof. Most useful poultry appliance ever sold. Each \$1.50, six for \$8.00, postpaid. Satisfaction or money back.

I. Putnam, Route 105, Elmira, N. Y.

OWEN FARMS

WHITE LEGHORNS

At the Great Boston Show, 1916

1st and 2nd Cockerel; 1st, 3rd and 6th Pen; 2nd, 3rd and 5th Pullet; 3rd, 5th and 6th Cock; special for best three Cockerels and best three Pullets.

BUFF ORPINGTONS

At Boston, 1916

1st, 3rd and 5th Cock; 2nd and 3rd Hen; 1st Cockerel; 1st, 2nd and 3rd Pullet; 1st and 4th Pen, and all specials. Note—Madison Square 1st and 2nd winning Buffs were not shown at Boston.

S. C. R. I. REDS

At Boston

In best class of the year, won First Collection, Special for three best Cockerels, and three best Pullets, repeating their 1915 winnings at Boston of these same specials. In 1915 they also won 1st Cockerel, 1st Hen and 1st Pen.

White Plymouth Rocks

I am not showing White Rocks anywhere this winter. My sales in this variety have been the largest in the history of the Farms and my customers have won splendidly. The winnings of the flock during years past have well established their ABSOLUTE SUPREMACY and my 1916 Matings will produce birds that will maintain this position.

Breeding Males

February and March are the months for finishing your matings for the 1916 season. Some of your males have developed faults you will not tolerate. Some of your females are disappointing. I can still furnish superb breeding males from noted sires that will strengthen your matings. Write me carefully and accurately your weakest points, where you are strong and about what you wish to pay. I will then tell you frankly if I have the bird to help you and with equal frankness if I fail to find him in my flock. This real interest in the success of every customer has been the strongest factor in building up Owen Farms' business.

Breeding Females

Perhaps you have a superb male with only one or two females that are exactly what you want to mate with him. I have a grand lot of choice females to spare and among them may be the exact birds you need to complete the best mating you ever put together. Try me and see. Will be glad to give all the necessary time to carefully consider your requirements and tell you what I have.

Breeding Pens

Owen Farms has always made a special effort to mate for best results every breeding pen sold. The nicking of blood lines has been just as carefully considered as in our own mating. This personal service has made hosts of permanent customers and you can easily make it yours. Let me quote you, whether you need a utility mating, a good mating, a choice mating or the best mating I will sell. There are no flocks in existence that have been more carefully line bred than have mine and there is no guess work when Mr. Davey or the writer mates a pen for a customer.

Owen Farms' Flocks are Established

They are years beyond the experimental stage and have been the foundation blood of most of the really successful breeders in the country. Very few really good flocks exist that do not have more or less Owen Farms blood. My birds have made good for others and will start you on an equal fighting basis and save you many years uphill work. TRY THEM YOURSELF.

UTILITY QUALITIES

Owen Farms birds are famous the country over for size, bone, perfect health, vigor, prepotency and heavy laying qualities. There are no birds that excel them in these important functions and very few flocks anywhere near as good.

Satisfaction Guaranteed Every Customer Every Time

I do not want any customer to keep a bird that does not please him, and any bird I ship can be sent back after a forty-eight hours' rest and the purchase money will be promptly refunded. I will pay the return expressage on males at \$10.00 or more each and on females at \$5.00 or more each.

OWEN FARMS

107 William Street

MAURICE F. DELANO, Proprietor

Vineyard Haven, Massachusetts

FRANK H. DAVEY, Superintendent



Home and the Table

Good Things for Everybody

Helen F. Woods
Editor

"All day the wind has whispered tales about the old home range,
And I, a lonely maverick, am crying for a change
Shall we pull up our picket pins, and coil the cattle rope,
Then hit the trail and follow it adown the western slope?
This city life may be all right for those whose eyes are blind,
Or those who never see beyond the daily, dulling grind,
But herding round a snubbing post from eight till half past five
Has never kept the outdoor heart of vagabonds alive.

Here every man is for himself, the devil for them all,
And few have pity for the weak who by the wayside fall.
They're branded with the city's iron, in body, heart and soul,
On every hand I see them strive with money for their goal.
So outward where the sun goes down is room for you and me,
For there the men are what their God intended they should be.
This old corral is far too small for near six feet of brown.
So let us take the Western trail before another dawn.
And all we'll ask of future years is that our feet may stray
Along some sun-kissed range, until the final roundup day."

DURING the past year frequent mention has been made here as to the educational worth of reading aloud in the family circle. In planning a course of reading for this purpose, a great deal must be taken into consideration, as most families are of diversified ages, as well as tastes.

First of all, it should be understood that the reading is chiefly for the benefit of the children. There are those who are not alone wholly unfitted but equally unwilling to devote time or thought to the instruction of their children, but in such cases the children are not the only losers.

We have had some most interesting letters from readers on this subject and some very wise suggestions in regard to courses of reading. One letter, however, takes exception to the suggestion that the reading aloud of books aimed to in-

terest children may prove of equal interest to the older members of the family.

In many instances the intellectual powers of children are seriously underestimated. The reading of any number of meaningless books will not arouse the passive thoughts of a child into activity. What the children need in the matter of reading is a spur to thought, and this is just as true of their elders. There is no particular delight in reading matter which gives no opportunity for mental exertion. The criterion by which juvenile literature should be judged is that of holding the adult's interest. A juvenile book which will not interest adults is not worth publishing. When we get right down to the matter, it is really difficult to find other than certain scientific and professional books over the heads of the average wide-

awake child. One of the greatest drawbacks to the general education of the masses of children has been the lack of worth while literature dealt out to children.

As an experiment, a mother tried reading certain of Shakespeare's plays to her children (ages seven to eleven). The interest displayed was as marked, if not more so, than in any juvenile story she had read them. While reading Mark Anthony's Oration from Julius Caesar, the seven-year-old daughter voiced her regret that there were "no pictures of it, as it would make such a good one."

In this matter of reading to children, it is not only useless but actually harmful to their mental development to wade thru a lot of silly and meaningless so-called "juvenile literature." There are juvenile classics, and these will prove of interest to adults as well as children for all time, but books intended for childhood and lacking this interest, are not worth the time spent in reading them. Make it a rule to read over the child's head rather than under, and you will awaken undreamed of depths in the child's mind. Children in the same household or family may display widely different channels in the expansion of thought or natural interest. In such cases it is not a wise plan to select all reading along that particular channel. Give them an opportunity for a wide range of thought that they may not be narrowed down to their personal likes. In this way new interests are discovered and fostered that otherwise might forever lie dormant. With these things in mind the following list of books was selected and read aloud in one family during the past year:

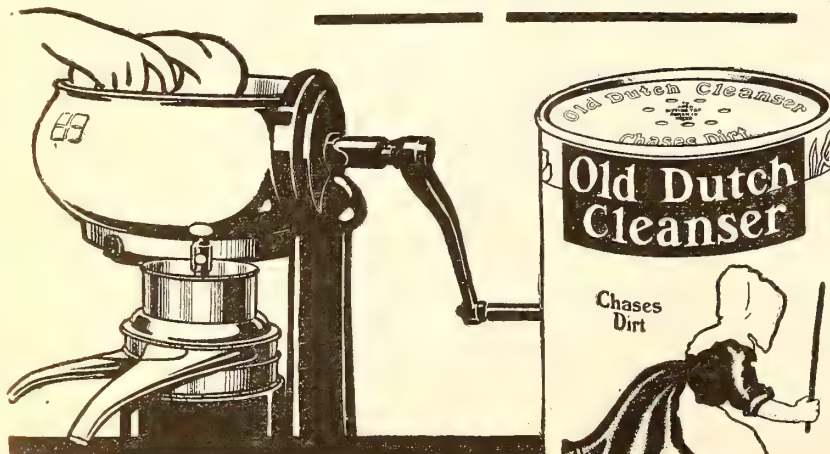
Hiawatha	Longfellow
The Life of Abraham Lincoln	Brooks
Treasure Island	Stevenson
Snowbound	Whittier
Uncle Tom's Cabin	Stow
Westward Ho	Kingsley
Before Adam	London
Two Years Before The Mast	Dana
The Man Without A Country	Hale
Abbe Constantin	Ludovic Halevy
Once Upon a Time in Delaware	Pyle
Writings of Columbus	Ford
Town and City	Jewett
History of England	Dickens
Tom Brown's School Days	Hughes
Helen's Babies	Habberton
South American Travels	Carpenter
Geographical Reader	Carpenter
Nights with Uncle Remus	Harris
The Jungle Books	Kipling
Ben Hur	Wallace
Stories of the Pilgrims	Pumphrey
The Land of the Midnight Sun	Du Chaillu
The Four Boys' Series	Tomlinson
History of the United States	Higginson
Evangeline	Longfellow
The Sketch Book	Irving
Wild Animals I Have Known	Seton Thompson
Julius Caesar	Shakespeare
Black Beauty	Sewell
Tom Sawyer	Twain
The Story of a Bad Boy	Aldrich



58 BREEDS, Pure-bred Chickens, Ducks, Geese and Turkeys. Hardy, northern raised, vigorous and most beautiful. Fowls, eggs and incubators at low prices. America's Pioneer Poultry Farm; 21 years exp. Large fine Annual Poultry book and Catalog free. **F. A. NEUBERT, Box 675 Mankato, Minn.**

For your separator you
want a Cleaner that cleans
hygienically without leav-
ing a greasy film — use

Old Dutch



\$22,000.00 in One Year From an Acre of Poultry

Over \$14,000.00 for Baby Chicks, All Hatched in CYCLES

EVERYONE should know my perfected way of hatching the LARGE, FLUFFY kind of chickens that come out of their shells with a determination to live, grow and make large profits for their owners. Never before has there been so many eggs laid, chickens hatched, and poultry raised on an acre of land. Our new Brooder saves half the cost, half the labor, and raises better chickens.

The following letter from Mr. Knoche refers to a shipment of Pedigree White Orpington Chickens hatched in the "Cycle" and shipped from Elmira to Des Moines, Iowa, October 26, 1915. The chickens were raised in our Brooder Coop, out-of-doors and without artificial heat at the most unfavorable season of the year for raising chickens.

THE PHILO SYSTEM Of Progressive Poultry Keeping

is unlike all other ways of keeping poultry and in many ways is exactly the reverse, accomplishing things in poultry work that have always been considered impossible, and getting unheard-of results that are hard to believe without seeing.

This new system covers all branches of the work necessary for success from selecting the breeders to marketing the products. It tells how to get eggs that will hatch, how to hatch nearly every egg, and how to raise nearly all the chicks hatched. It gives complete plans in detail how to make things necessary to run the business and at less than half the cost required to handle the poultry business in any other manner.

One of the secrets is to save the chickens that are fully developed at hatching time, whether they can crack the shell or not. It is a simple trick and believed to be the secret of the ancient Egyptians and Chinese which enabled them to sell the chicks at ten cents a dozen.

101 W. 3D St., FREDERICK, MD.,
JULY 23, 1914.

E. W. PHILO,

DEAR SIR:—I have been following your system for four years and have been very successful. This past February I had a few chicks to hatch and one chick at six weeks old weighed two and one-half pounds. I felt very proud. Last fall at the Frederick County Fair, I carried first prize and first sweepstake prize for eggs. I consider your system the root of it all.

Yours truly,
MRS. HUGH DEAN.

*Philo System Book, Postpaid, \$1.00.
Three Sets of Coop Plans from drawings showing the exact size and shape of every piece of wood, postpaid, \$1.00.*

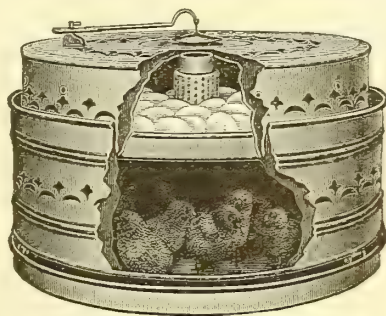
Cycle Hatcher Company.

Des Moines, Ia., Dec. 16, 1915.

Gentlemen—The chickens you sent me October 26th, are growing very fast. Although only seven weeks old they average nearly three pounds each. I have never taken the Brooder out of the coop and they are still using it. All who have seen them say they are beauties. Thanking you for your kindness, I am

Very truly yours, F. W. KNOCHE,

Send postal and get FREE copy "Poultry Profits." It tells all about the latest discoveries in the Poultry Business,



Brooder-Hatcher, complete, \$8.00

Philo System Book, 3 Sets Coop Plans, the New Book, "Farming," and a Brooder-Hatcher, complete, all for \$10.00.
If ordered direct from this advertisement I will give you a premium of Six Baby Chicks, a Brooder and Chick Feed FREE.

The "CYCLE" and "BROODER-HATCHERS" produce the LARGE, FLUFFY kind of chickens that come out of their shell with a determination to live and grow into PROFITABLE POULTRY. With these machines we find it so easy to hatch chicks that we can offer them for premiums by the thousands. The success of every poultry business is in the reproduction of the best poultry at the smallest cost. The CYCLE will help you as it is helping more than two hundred thousand poultry keepers in every section of the world. Read the following letters:

RAMONA, CAL., NOV. 6, 1915.

E. W. PHILO, ELMIRA, N. Y.
DEAR SIR:—As I am so well pleased with the ten incubators and twenty brooders ordered of you last April, I have decided to increase my plant. Enclosed you will find draft for which please send me twenty more Cycle Hatchers. Please rush. Yours truly, GEO R. COMINGS.

FARMING WITH ALFALFA And New Discoveries

The new farm book tells how to grow alfalfa successfully on nearly all kinds of land and why so many farmers have not been successful when trying to grow it. It gives advice about selecting a farm for a good investment, preparing the land, seeding, harvesting and marketing. How to convert alfalfa into cash, how to run a farm profitably without stock and at the same time keep up the fertility of the soil, or how to get the largest profits from stock raising, how to increase the milk production of a dairy without feeding grain, how to make poultry on the farm pay the largest profits, how to produce strong, fertile eggs, how to hatch and raise the chickens at the smallest cost for feed and labor, how to handle many things that often go to waste on the farm and turn them into profit, how to provide an abundance of everything good to eat for the table at a great saving in cost. Complete, easy-to-follow instructions will be furnished in book form, not a large, difficult book of theory, but a small one full of facts not generally known.

The alfalfa plant draws nitrogen from the air and fertilizer from the earth at a greater depth than can be reached by modern machinery and in greater quantities than the farmer can afford to buy, it puts new life into the soil and gathers by its own efforts the essential elements for growing plants to perfection. *Farming book, postpaid, \$1.00*

SELLERSVILLE, PA., JUNE 16, 1913.

E. W. PHILO, ELMIRA, N. Y.
DEAR SIR:—We are pleased to notify you that the Cycle Hatcher is the winner of our extensive Incubator contest, making the remarkable record of a 100 per cent hatch and the only machine in the contest that made a perfect record.

THE ITEM PUBLISHING COMPANY.

I will send you by return mail the PHILO SYSTEM BOOK, my new book, "FARMING," and three sets of COOP PLANS for \$3.00 and will give you absolutely free, SIX THOROUGHbred WHITE ORPINGTON CHICKS and BROODER. Order direct from this advertisement and I will include free of charge a package of chick food to give the PREMIUM chicks a good start. Will hold chicks for later delivery if desired. Catalog Free.

CYCLE HATCHER CO. 1686 Lake Street ELMIRA, N. Y.

Recent Inventions for Poultrymen

By Lester L. Sargent, Patent Attorney, Washington, D.C.

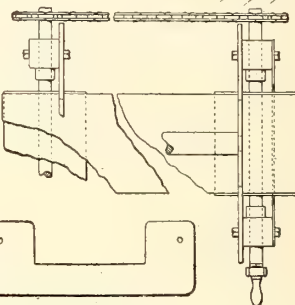
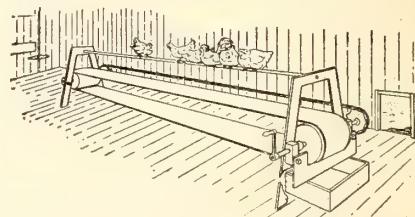
A NEW kind of poultry roost has been devised by Herbert C. Hart, Unionville, Ky. An endless belt mounted on rollers and positioned directly beneath the roost furnishes a means for quickly cleaning out. The rollers are connected by a chain and sprocket wheels which are rigid with the respective shafts of the rollers and one of them is provided with a crank. The patent is 1,165,252.

A heating attachment that can be used with the ordinary poultry drinking basin and which does not require a special form of water container has been invented by Frank C. Mosier, of Pitts-town, Pa. The attachment comprises a

bottom plate constituting a centering means, the casing on this plate, the covering for the casing and heat retaining means is usually a block of soapstone. The patent is 1,166,534.

A brooder designed to cover a large number of chicks has been patented by John F. MacKey, of Bordentown, N. J. In this brooder there is combined with a fire box, a downwardly flaring hood to form a brooder chamber. A circular drum surrounds the fire box instead of the hood and has opening communications with the interior of the hood. A cold air inlet extends to the interior of the drum. A valve in this inlet regulates

the introduction of cold air. It is automatically controlled by a thermostat. The damper to the ash box is also regulated by the thermostat to open or close.



Poultry Roost, patented December 21, 1915, by H. C. Hart, Unionville, Ky. No. 1,165,252.

as temperature conditions in the chick compartment require. Patent No. 1,166,773.

An improved drinking fountain for poultry, the invention of Frank Enos, Junior, has just been patented to the Norwich Automatic Feeder Company, of New London, Conn. The primary object of the invention is to provide a drinking cup which can be easily and quickly applied to and removed from the main reservoir. A spring attached

SEAL This Carton

AND MAIL IT AT PARCEL POST RATES

A new era has dawned for the poultryman. In the future you can seal your cartons of "hammocked eggs"—either fresh eggs or hatchlings and still send them at parcel post rates. This is a special ruling of the U. S. Postal authorities.

"Hammocked eggs" keep fresh many weeks longer. Every egg is enclosed in its own hammock of parchment paper which forms a second and stronger shell. Eggs can't break excepting in case of unusual accident. It takes no longer to

"HAMMOCK" Your Eggs

than it does to pack them in the old fashioned way. Your customers are certain to appreciate the quality-appearance of hammocked eggs and you are insured against loss—Parcel Post or Express.



FOR HATCHING you can see at a glance that Hammock cartons are exactly what you have been looking for. Each egg is held just rigidly enough to prevent vibration. Of course you can get a higher price for "hammocked" hatchlings. Special hatchling sizes.

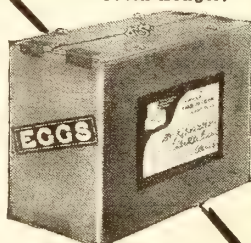
Mr. F. M. Babcock, Babcock Poultry Farm of Fredonia, N. Y., writes: "We think the Hammock Egg Carrier is the best carrier we have ever seen for carrying eggs for either hatching or market purposes."

Hammock Cartons and Reels are Returnable. They are collapsible and may be used many times over. Made in 1, 2, 3, 4 and 6-dozen sizes.

Investigate the Hammock Method. Write for our free book which explains how the Hammock system will increase your profits this year—and for many years to come.

HAMMOCK CARRIER CORP. 535 S. Clifton St. SYRACUSE, N. Y.

"Hammocked"
Eggs Don't B-e-a-t
—and They Keep
Fresh Longer.



Two Dozen Size

**AGENTS
WANTED**
in every vicinity
where there are
up-to-date poultrymen.

PARKS' Barred Plym. Rocks

BRED-TO-AND-DO-LAY

1889



PARKS 200 EGG STRAIN
BRED-TO-LAY
BARRED PLYMOUTH ROCKS

1916

ARE AMERICAS' OLDEST and GREATEST LAYING STRAIN

In fact they are conceded by such men as Dr. Woods, Grant M. Curtis, Judge Schwab, Prof. Morrison, Wm. Denny and others to be the daddy laying strain of them all.

Their early history dates back to the year 1889, when a flock of 16 at that time averaged but 96 eggs each. While today they have to their credit individual records as high as 290 eggs in one year. Sworn continuous laying records up to 148 eggs. Small flock averages up to 242 eggs. While a flock of 128 averaged 208 eggs in one year and, better still, they just proved their official laying capacity by laying more eggs in the last Missouri Laying Contest than any other breed entered (The Famous English Leghorns included). In addition to making the best winter month record in the contest—and, by the way, just keep your eye on Pen No. 69 in the present contest. They stand fourth in the 100 pens, and lead all Barred Rocks by 30 eggs.

That's what over 26 years of careful, selection, trapnesting and pedigreeing for eggs has done, and not all at the sacrifice of Standard qualities, as our 18 firsts and seconds won at Elgin, Ill., Youngstown, O., Utica, N. Y., Wheeling, W. Va., and Altoona, in addition to four American Barred Rock Club Specials show. That's why our customers today include Madison Square Garden winning breeders.

Pedigreed Cockerels that transmit the lay. Foundation stock that reproduces. The above in limited numbers only, however, as stock of such quality is not produced and sold the happy-go-lucky way by the thousands. Yes, let the other fellow have your big orders, but remember us on the quality end.

Eggs that hatch, selected, \$5 per 15; \$8 per 30; \$11 per 50; \$20 per 100. Utility, \$2 per 13; \$6 per 45; \$12 per 100.

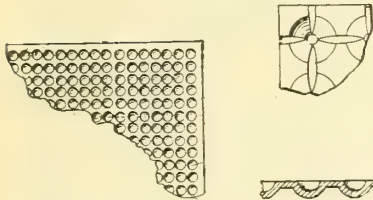
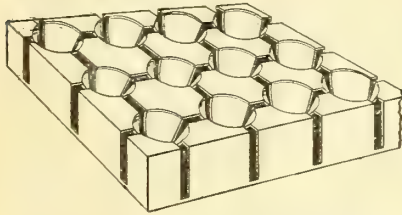
Day-Old Chicks that develop into layers. Chick, Eggs and Cockerel circulars free. Large 40-page illustrated catalog that tells all about how America's oldest and greatest laying strain has been produced, a dime.

J. W. PARKS

- Box J -

ALTOONA, PA.

to the fountain and one at its base engages from the rim of the cup, frictionally holding it in place. Owing to the necessity for cleaning poultry fountains whenever they are filled, this readily detachable cup saves the attendant much labor, as it can be readily cleaned without overturning the entire fountain. Patent No. 1,165,056.

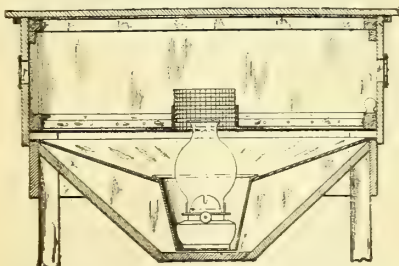
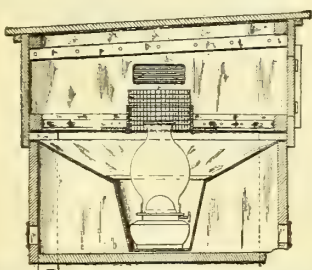


Filler for Egg Cases, patented December 21, 1915, by J. Petrich, Youngstown, Ohio. No. 1,165,204.

A new filler for egg cases has been invented by John Petrich, of Youngstown, Ohio. It is made of soft cotton rag paper and has semi-spherical cells, another inverted filler being used to complete the packing about the eggs. The particular novel feature of the device are the slots which divide the filler into cushioning elements. The patent is 1,165,204.

A new folding egg case invented by Francis F. Lee, of Lehigh, Neb., is arranged with the upper portions of the sides of the crate, hinged to the bottom of the crate so as to fold inward, overlapping one another when the device is folded in its most compact form. The patent is 1,165,885.

Elnora Irwin, of Montplier, Ind., is the inventor of a chicken brooder which can be quickly taken apart for purposes of cleaning or transportation. The lamp is centrally positioned in this brooder and communicates directly with the hover chamber. The lamp is supported within an approximately conical receiving case. Patent No. 1,165,509.



Chicken Brooder, patented December 28, 1915, by Elnora Irwin, Montplier, Ind. No. 1,165,509.



Andrews' White Wyandottes

Great Win at Boston, 1916

in one of the largest and best classes ever shown—win 1st and 5th Cock, 1st and 2d Hen, 1st and 4th Cockerel, 2d, 3d and 6th Pullet, 1st Pen, Best Display. They have also won these every year for 18 years. Buy your eggs from a strain that has been bred right and has utility value combined with fancy. Cockerels, Trios and Pens for sale. Send for Mating List.

J. W. ANDREWS

Box A

Dighton, Massachusetts

World's Best Single Comb Black Minorcas

Are winners wherever shown. In November, 1915, I sold Carl O. Bricker, of Roulean, Sask., 1 cockerel and 2 hens. At Moose Jaw show he won on them 1st cockerel and 1st and 2d hen; special for best male and special for best female in the Mediterranean class, including over 100 White Leghorns. One of the hens won special for best hen in the show of over 1000 entries.

Please send for Sale List, etc., that shows you how I please my customers.

T. A. FAULDS

LONDON, ONT., CANADA

President Canadian Black Minorca Club

Hudson River Chick Boxes

Thousands of chicks are shipped each season in these boxes. They are well ventilated and made of double reinforced board. No extra charge for breaking a dozen. Sample 15c, postpaid. Book your order with us. Satisfaction guaranteed or money refunded.

PRICES PER DOZEN

100-Chick size, 5x16x24, \$1.70; 50-Chick size, 5x10x16, \$1.20; 25-Chick size, 5x8x10, 90c

Write for low prices on Shipping Coops. We make 4 sizes. Sample 30c.

STAATSBURG MFG. CO., C. R. Stone, Pres.

STAATSBURG-ON-HUDSON, N. Y.

W. F. Frase, Specialty Breeder Red Sussex

First, last and always — Pure Champion strain.

World's greatest exhibition and laying strain. Eggs from Chicago, Columbus and Port Huron winners. Write for Mating List.

W. F. FRASE

Route 21

EAST AKRON, OHIO

White Wyandotte Winners

We Have the Real Winners at Kansas City, Mo., St. Louis, and Quincy, Ill.

The down-to-date Wyandotte type, and pure white plumage. Grand pens mated for the egg trade. Stock for sale. All infertile eggs replaced free. Every bird guaranteed and shipped on approval. Write Today.

ROY KEMPER

::

CLARENCE, MO.

Buff Orpington Winners

Having bred this strain for eight years, feel now that I am in a position to offer Stock and Eggs, attested by the following winnings:

American Royal, Kansas City, 1915—1st Cock, 1st Pullet, 2d Pen (three entries). Kansas City, Kan., Mid-West, 1916—1st Cock, 1st, 2d, 3d, 4th, 6th and 7th Pullets, 1st Pen, 3d and 4th Cockerels, Silver Cup best display. Kansas City, Mo., 1916—1st and 4th Cock, 1st, 2d and 4th Cockerels, 1st and 2d Pullets, 3d Pen, Silver Cup best display.

Eggs for Hatching. Write Today. Stock for Sale.

J. C. KERN

66th and Virginia Ave.

KANSAS CITY, MO.

Instead of Getting All We Can for What We Give, We Give All We Can for What We Get

Eggs for Hatching—\$5.00, \$3.00 and \$2.00 per fifteen from pens; \$6.00 per hundred from utility stock. All pure Habach male birds with the above stock. Pens, \$10.00; Trios, \$7.00; Cockerels, \$3.00 up; Cocks, \$5.00; Pullets and Hens, \$2.00.

MRS. L. R. BUELL

Lake Geneva, Wis.

McConnell's S. and R. C. Reds

Winners at the leading Mid-West shows. Wonderful type and color, long backs and fine head points. Write today. Every bird guaranteed. Stock and Eggs for sale,

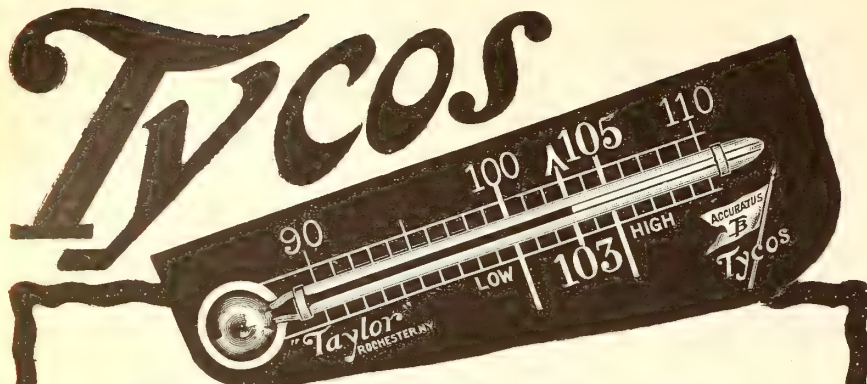
W. A. McCONNELL

RICHMOND, ILLINOIS

WHITECREST FARM S. C. White Leghorns and White Wyandottes

Our winnings at the Cleveland Show, January, 1916: Cup for best display of Leghorns; Cup for best display of W. Wyandottes; Cup for best display in the Mediterranean Class, also Cup for best Cock, Hen, Cockerel and Pullet in Wyandottes; nine times winners of best display at Cleveland. Our winnings to date, 15 First Prizes and 16 Cups. Circular free.

H. C. & C. W. SIXT, West Park, Ohio.



Found In The Best Incubators

Tested for 100 per cent accuracy. Reads easy and "always tells the truth." *Insist* that your new incubators be thus equipped. Put *Tycos* in your old machines, too. If your dealer cannot supply you, or will not order for you, write to us. Anyway, send for instructive booklet, "Thermometer Facts Worth Knowing." Free. Write *now*.

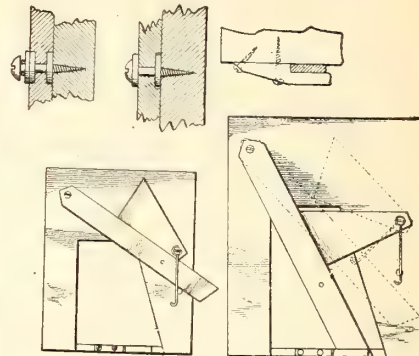
PRICES (Postpaid)

<i>Tycos</i> Incubator Hygrometer (like cut)	each, \$1.50
<i>Tycos</i> Incubator Thermometer	each, .75
<i>Tycos</i> Brooder Thermometer	each, .75
<i>Tycos</i> Certified Incubator Thermometer	each, 1.00
<i>Tycos</i> Electric Alarm Thermometer, Express Prepaid	each, 5.00

Taylor Instrument Companies,

100 Ames Street - Rochester, N. Y.

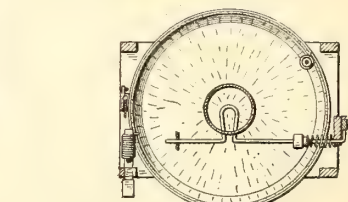
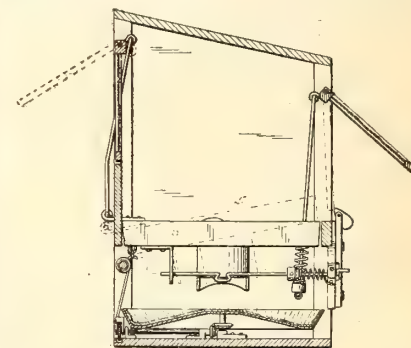
A trap-nest device invented by C. W. Mayers, of Dresden, Me., can be attached to an ordinary nest box to convert it into a trap-nest. The trap consists of a bar which is pivotally attached at its upper end to the nest box by a pivot screw and arranged to swing diagonally across the opening to the nest as soon as the hen has entered. A board or fall of irregular shape is pivoted at one side of this bar and together with a hook shaped link operates as the means for trapping the hen. The patent number is 1,165,270.



Trap Nest, patented December 21, 1915, by C. W. Mayers, Dresden, Maine. No. 1,165,270.

onally across the opening to the nest as soon as the hen has entered. A board or fall of irregular shape is pivoted at one side of this bar and together with a hook shaped link operates as the means for trapping the hen. The patent number is 1,165,270.

A trap nest of more intricate character invented by Samuel L. Denney, Lincoln University, Pa., traps the hen and also traps the egg when laid. The exit and entrance doors are operated by a depressible floor, to which they are operatively connected. The receptacle



Trap Nest, patented December 28, 1915, by S. L. Denney, Lincoln University, Pa. No. 1,166,191.

which traps the eggs beneath the portion of the nest occupied by the hen is a rotatable device. It is intermittently rotated by the depressible floor of the nest which the hen occupies. The doors to the nest automatically resets by gravity when the hen departs. The patent is 1,166,191.

Tells why chicks die

E. J. Reefer, the poultry expert, 3812 Reefer Bldg., Kansas City, Mo., is giving away free a valuable book entitled, "White Diarrhoea and How to Cure it." This book contains scientific facts on white diarrhoea and tells how to prepare a simple home solution that cures this terrible disease over night and actually raises 98 per cent of every hatch. All poultry raisers should certainly write Mr. Reefer for one of these valuable FREE books.

1000 Miles or Next Door

Makes No Difference How Far You Ship If You Use H. & D. Boxes



Ship just as far as your eggs will go without spoiling and your chicks without dying. H. & D. Boxes are built to stand hard knocks and they'll go anywhere without breaking.

They are made of double thickness jute board with corrugations that make the boxes proof against shocks and jars. The day-old chick

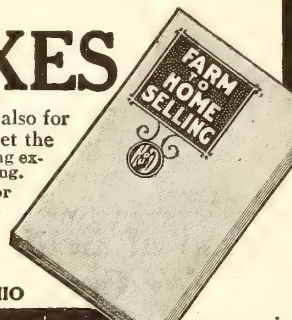
boxes have air holes so located that there is plenty of ventilation without draft. You know your shipments are safe when you use

H. & D. CHICK and EGG BOXES

We make boxes not only for poultry and eggs but also for fruit, vegetables, berries and every purpose. They meet the parcel post requirements. Their light weight keeps down shipping expenses. Fold flat and take little storage room. No sawing or nailing.

FREE BOOK "How to Pack It for Express and Parcel Post" or send 10c for "Farm to Home Selling" a valuable book which tells you the secrets of successful mail order marketing of poultry and farm produce. The book is really free because, with it, we send you a 10-cent rebate coupon good with first order.

THE HINDE & DAUCH PAPER COMPANY
177 DECATUR STREET SANDUSKY, OHIO



CUT CLOVER

GRASS GREEN

BEST WINTER GREEN FEED

Breeders, Day-old Birds, Hatching eggs, Wyandottes, Rox, Reds, Leghorns, Pekin and I. R. Dux and White Guineas. Poultry Supplies, Brooder Stoves at half price. Circular free.

W. R. Curtiss Co. Box C Ransomville, N. Y.

PHILADELPHIA'S TENTH ANNUAL SHOW.

Record-breaker in Both Quality and Quantity of Birds Shown.

By EARL WHITNEY.

The tenth annual show of the Philadelphia Poultry, Pigeon and Pet Stock Association was held December 14th to 18th at the New Metropolitan Building, Philadelphia. Centering, as it does, in a hot-bed of poultry enthusiasm, Philadelphia has always maintained its prestige as one of the major shows of the country, and the tenth annual show has increased this prestige. I doubt, however, if any show has had to contend with the unusual weather conditions encountered by the Philadelphia management. Unfortunately for this splendid exhibition, the weather was so bad that only the most dyed-in-the-wool fanciers could hope to brave the storms in order to be present.

The Barred Rocks and Rhode Island Reds were unusually strong classes, although all the popular varieties were well represented. The show was one long to be remembered, not only from the standpoint of the excellent quality of the birds shown, but the fact that the quantity was there in all classes.

Following are the awards:

BARRED ROCKS—Robert J. Walden, Middleburg, Md., 1 cock, 4 hen, pit-bred male, 3-4 ckl, 5 pit, 1-3-4 ckl-bred female, 2-3 pen mated to produce Exh. Females: C. Guy Myers, Siddonsburg, Pa., 2 cock, pen, 1 ckl; C. N. Myers, Hanover, Pa., 3 cock, 1-5 hen, 5 ckl, 2-3 pit, 1-2 pit-bred

male, 1-4 pen mated to produce Exh. Females; Newton Cosh, Vineland, N. J., 4 cock, 2 hen, 1-4 pit, 5 pen; Meadowbrook Poultry Farm, Meadowbrook, Pa., 5 cock, pit-bred male, 3 hen, 1 pen; Miss M. J. Healy, Wintertur, Del., 2 ckl; Schreiber & Stewart, Philadelphia, Pa., 3 pit-bred male; S. M. Goucher, Moorestown, N. J., 2 ckl-bred female, 4 pen mated to produce Exh. Male; Ridgewood Poultry Farm, Oreland, Pa., 3 pen; Geo. E. Muth, Camden, N. J., 1-2 pen mated to produce Exh. Males; Warren Lackman, 2 pen mated to produce Exh. Males.

WHITE ROCKS—Bickmore Poultry Farm, Wallingford, Pa., 1 cock, ckl, 2 hen, pit; Meadowbrook Poultry Farm, 2 cock, pen, 5 ckl; Wood Crest Farms, Radnor, Pa., 3 cock, 4 hen; Minch Bros., Bridgeton, N. J., 4 cock, pit; Willow Brook Poultry Farm, Willow Grove, Pa., 5 cock, hen, 3 pen; Pine Grove Poultry, Farm, Halethorpe, Md., 1 hen, 2 ckl; Geo. H. L. Pettie, Philadelphia, Pa., 3 hen, ckl, 1-5 pit, 1 pen; H. H. Bond, Hadonfield, N. J., 4 ckl; Abbleyleix Yds., Penlyn, Pa., 3 pit; Paul G. Springer, Bridgeton, N. J., 4 pen.

BUFF ROCKS—Jas. H. Vincent, Hazelton, Pa., 1 cock, 1-2 hen, 1-4 ckl, 4-5 pit; Joe. H. Hertz, Hanover, Pa., 2 cock, 4 hen, 3 ckl, 1-2 pit; Kerlin Farm, Pottstown, Pa., 3 cock, pit; Wm. J. H. Goetz, Detroit, Mich., 4 cock, 3 hen, 5 ckl; B. U. Livingston, Jr., Penlyn, Pa., 5 hen, 2 ckl.

COLUMBIAN ROCKS—J. M. Jones, Hornerstown, N. J., 1 cock, 3 hen, 2 ckl, 4 pit; Lu-Esta Farm, Vineland, N. J., 2 cock, hen, 3 ckl; Wm. D. Ridgway, Bethayres, Pa., 3 cock, 5 hen, 4-5 ckl, 2-5 pit; F. G. Bean, Collegeville, Pa., 1-4 hen, 1 ckl, 3 pit; Paul G. Springer, 1 pit.

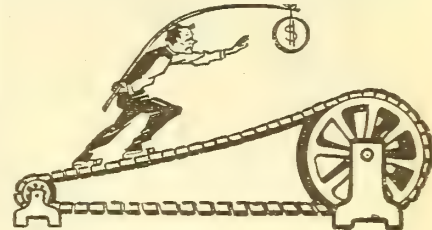
PARTRIDGE ROCKS—Ernest M. Brown, Fawn Grove, Pa., 1 cock, hen, ckl, 3 pit; H. J. Roth, McSherrystown, Pa., 2 cock, hen, ckl, pit; J. C. Myers, Ligonier, Pa., 3 ckl, 1 pit.

SILVER WYANDOTTES—T. K. McDowell, Rising Sun, Md., 1 cock, hen, pit, 1-2 ckl; Salem Poultry Farm, Salem, N. J., 2-3 cock, 2-3-4 hen; R. C. Brown, Cranesville, N. Y., 4 cock; H. M. Puder, Rutledge, Pa., 5 cock, 3 ckl, 2 pit; R. C. Creer, 3 pit.

WHITE WYANDOTTES—John Y. Cleaver, Gilbertsville, Pa., 1 cock; J. Clawell & E. Robbins, No. Glendale, Pa., 2 cock, 5 hen, pen, 3 pit; Allen C. Roberts, Parker Ford, Pa., 3 cock, 1 hen, pen, 5 ckl, 1-2 pit; Wm. D. Ridgway, 4 cock, pen, 2-3-4 hen, 3 ckl,

4-5 pit; Lu-Esta Farm, 5 cock; White Wyandotte Pity. Yds., Westborough, Mass., 1 ckl; Wood Crest Farms, 2 ckl; John J. Thoburn, Trenton, N. J., 4 ckl; Harry Freas, Ft. Washington, Pa., 2 pen; S. Y. Warner, Ardmore, Pa., 3 pen.

PARTRIDGE WYANDOTTES—Minch Bros., 1 cock, ckl, pit, 2 hen; Edgewood Poultry Farm, Lansdowne, Pa., 1 hen.



Life is a dull grind to the man who thinks only of the grist—

There's one Family Farm Paper that brings happiness without neglecting the grist. Nearly 1,000,000 are already enjoying its sunshine—why not you?

\$1 for 5 years; or send today for free sample of Farm Journal and free copy of Poor Richard Almanac for 1916.

The Farm Journal

169 Washington Square, Philadelphia

MAKE CHICKS GROW BIG and HEALTHY

In Spite of Sudden Weather Changes

you can save your chicks by brooding with the MacKay because it has a bigger coal-burning heater with **both top and bottom drafts**.

The bottom draft is below the fire—where every good draft in any stove you ever used is located—and compels immediate increase of heat automatically when the thermostat is affected by a sudden change to cold weather.

Because of this double regulation—top and bottom drafts—the correct heat is assured all the time and the MacKay keeps the babies alive and growing and makes poultry-raising more profitable. No poisonous oil fumes or gas.

MACKAY Colony Brooder Three Sizes Broods up to 1000

These MacKays have bigger and heavier all-cast-iron heaters, lasting, heavy galvanized iron Deflectors, mechanically perfect and accurate double temperature regulation.

The MacKay Junior is the biggest value ever offered, as it has exactly the same operation and double regulation as the two larger and more expensive models, and is made from the same strong and lasting materials. It is sold at a price that makes any other method of Brooding expensive.

The MacKay is the original self-regulating Brooder of its kind; the first on the market; longest in use and has passed the real test of time. It is the safest and surest Brooder made.

You owe it to yourself to thoroughly investigate the MacKay before you buy your brooding equipment.

Write today for handsome catalog that fully describes and illustrates the MacKay. Please send your dealer's name.

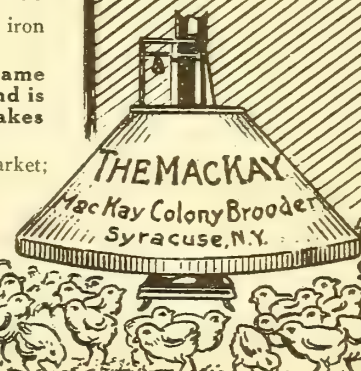
MACKAY COLONY BROODER CO.

Lock Box 182

Dept. 2

SYRACUSE, N. Y.

THE MacKay





Chicks

200,000 for 1915

Pure Blood, best laying strain

S. C. Brown, White and Buff Leghorns, Barred and White Rocks.

R. C. and S. C. R. I. Reds.

Buff and White Orpingtons.

White Wyandottes, Buttercups.

"St. Augustine, Fla., Dec. 12, '15.
Dear Sirs:

I am writing to find out if you are going to have Baby Chicks as last year, as I want to put in an order for the first hatch. Last year I bought over 600 of you and this year I would like at least 1,000. I have some of the finest chickens I ever saw, many prize winners from those I bought of you.

Yours truly,

Ernest Oliveros."

TIFFIN POULTRY FARMS AND HATCHERY
Dept. A TIFFIN, OH IO

WHITE INDIAN RUNNER DUCKS

The Sensation of the water fowl department of the Madison Square Garden show. Their style and carriage is perfection. Here they won cock 1-3, hen 1-2, cockerel 1-2, pullet 1-2. All specials. Write us your wants. Satisfaction assured — none better; winning wherever shown.

E. G. CURTIS Box A ATSION, N. J.



"TRAP-NEST"

200 EGG

Baby Chicks and Eggs For Hatching

Barred, buff, white Rocks, Reds, Wyand., Orpingtons, Leghorns. Record, 200 to 249 eggs a year; best in quality, hardest Vermont raised. Write for new chick circular.

Sunnyside Poultry Farm
Box 1002, Bristol, Vermont.



BUFF and WHITE ORPINGTONS

Winners of the highest honors at Detroit and Grand Rapids.

EGGS for HATCHING

From massive, blocky birds — quality and utility combined. Mating and price list free. Write C. A. Keefer, A. R. 7, Muskegon, Mich.

White Langshans

Eggs from flocks of utility birds at \$1.00 per 15, or \$5.00 per 100; \$2.00 per 15, or \$10.00 per 100. From Pen of Fancy Stock, \$5.00 per 15. Eggs from White Indian Runner Ducks, \$1.00 per 12.

R. H. Moore, R. F. D. 1, Nellie, Ohio

WARD'S CHAMPION DARK CORNISH

(Exhibited as Ward & Chilvers)

score the most remarkable victory in Cornish history at the Palace, New York, show, December, 1915; 631 points for best display to nearest competitor's 330. For further information about this great victory and price list, write

John W. Ward Jr., Box 7, Pennington, N. J.

They Win Again at MADISON SQUARE GARDEN

Quality Speckled Sussex

Honest birds at honest prices. Maples Poultry Yards, Groton, N. Y. Rev. W. Berberich, Owner.

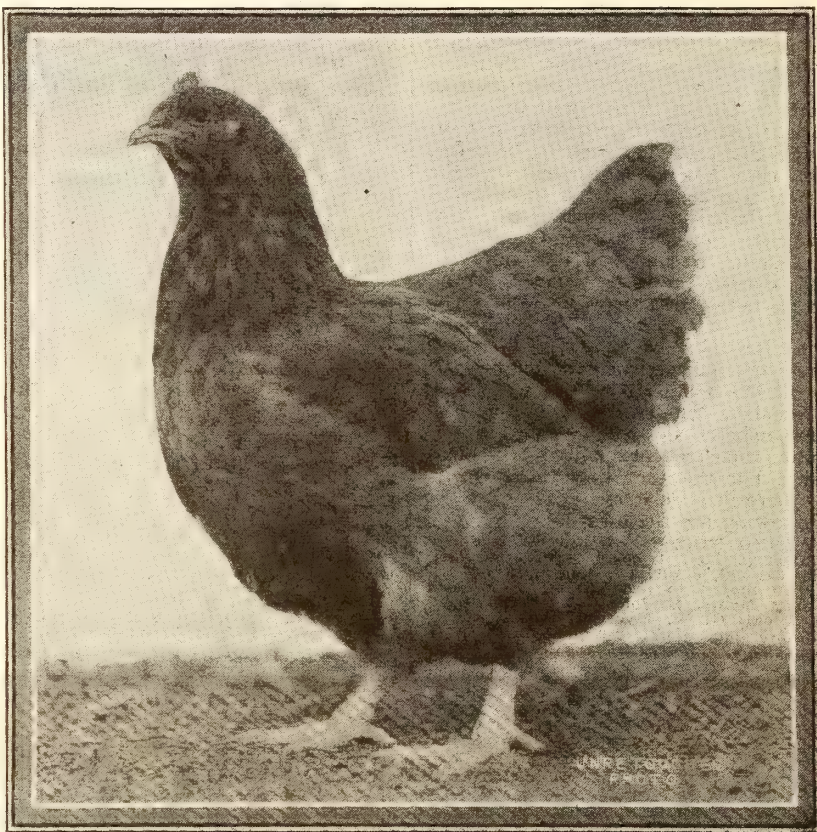
COLUMBIAN WYANDOTTES — B. W. Cooper, Moorestown, N. J., 1 cock, hen, ckl, pen, 2-3-4 plt; Albert Major, Jr., Royersford, Pa., 2-3 ckl, 1 plt.

S. C. RHODE ISLAND REDS — Fred H. Stillwagen, Allentown, Pa., 1-2 cock, 1-3 hen, 1 ckl, plt, 2 pen; A. R. Bryant, Allentown, Pa., 3 cock; Geo. W. White, Hamilton, Md., 4 cock, 2-4 ckl, 2-4-5 plt, 1 pen; Chas. E. Fanning, Alba, Bradford, Pa., 5 cock; Thos. J. Lane, Drescher, Pa., 2 hen; Robinson Poultry Farm, Drescher, Pa., 4 hen, pen, 3 plt; Moses R. Amy, Pen Argyl, Pa., 5

DOMINIQUE — L. L. Brandt Co., Bethlehem, Pa., 1 cock, hen, ckl, 2 plt; S. F. Yerkes, 2 cock, hen, 2-3 ckl, 1 plt.

BLACK JAVAS — Linstead Farm, Robinson, Md., 1-2 cock, hen,

S. C. BUFF ORPINGTONS — H. F. Hall, Moorestown, N. J., 1-2 cock, 2-4 hen, 1-4 ckl, 2-3-5 plt, 1 pen; Wm. Cook & Sons, Scotch Plains, N. J., 3 cock, ckl; Old Forge Poultry Farm, Spring Grove, Pa., 4 cock, 1 hen, plt, 2 ckl, pen; Sprecher Bros., Rohrerstown, Pa., 3-5 hen, 3 pen; Fred E. Ottinger, Phoenixville, Pa., 5 ckl; Paschall



First prize Buff Orpington hen, Philadelphia, Pa., 1915. Bred and owned by Old Forge Poultry Farm, Spring Grove, Pa.

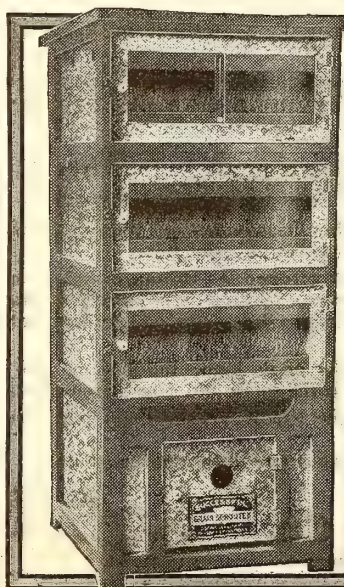
hen; J. H. Crossley & Son, Magnolia, N. J., 3 ckl, 5 pen.

R. C. RHODE ISLAND REDS — F. H. Stillwagen, 1 cock, ckl, pen, 3-4 hen, 2-3 plt; H. W. Sterling, Morrisville, Pa., 2 cock, ckl, 5 hen; L. F. Buehler & Son, Riverton, N. J., 3 cock, 4 plt, 2 pen; West End Poultry Yds., Lansdale, Pa., 4 cock, 1 hen; H. L. Greene, Shelburne, N. Y., 5 cock, 3-4 ckl; E. A. Feather, Reading, Pa., 2 hen; Allendale Poultry Farm, Allendale, N. J., 5 ckl, 1-5 plt; Williamson Free School, 3 pen.

Poultry Yards, West Philadelphia, Pa., 4 plt; Miss I. J. P. Bush, Wyncote, Pa., 4 pen.

S. C. BLACK ORPINGTONS — Wm. Cook & Sons, 1 cock; R. L. Broome, Westfield, N. J., 2 cock, 1-2 hen; S. J. Birkenstock, Philadelphia, Pa., 1-2 plt; Mrs. D. Hines, E. Lansdowne, Pa., 1 pen.

S. C. WHITE ORPINGTONS — Wm. Cook & Sons, 1 cock, 3 hen, 1-5 ckl; Willow Brook Poultry Farm, Willow Grove, Pa., 2 cock, 4-5 hen, 1 plt, pen; E. A. Kretschman, Philadelphia, Pa., 3 cock; Valley View



20 Lbs. Raw Oats Make 70 Lbs. of Best Green Egg-Making Feed

WHY allow your hens to loaf when you can make them give you eggs a-plenty right at the time when prices are highest? Feed sprouted grain — crisp green feed that you can make yourself for only 15c a bushel with the "Successful" Grain Sprouter. Make three bushels of tempting egg-making feed from one bushel of oats, wheat or rye — increase the egg yield at least 50% — and at same time save 1/2 feeding cost. Write for catalog and 1916 offer we make on the

"SUCCESSFUL"

SECTIONAL ALL-STEEL GRAIN SPROUTER

Made with double steel walls — metal trays — nothing in it to warp, shrink, swell or mold the food. Fireproof. Lasts a lifetime. Large glass doors. Made in sections so you can add more sections as your needs grow. There's a size for your needs whether you keep 50 or 600 hens. Thousands of poultry raisers say they would not be without this wonderful food maker. The newest, most reliable construction ever made in a grain sprouter. Not only turns idle hens into industrious layers but supplies feed for growing chicks — protects health — prevents chick loss. Booklet "How to Raise 48 Out of 50 Chicks" 10 cents.

Write today for catalog and full details of 1916 offer

DES MOINES INCUBATOR CO., 561 Third St., Des Moines, Iowa

Ptly. Yds., Atglen, Pa., 1 hen, 2-4 plt; Elm Ptly. Yds., Hartford, Conn., 2 hen; Wm. C. Fenstermaker, Slatinton, Pa., 2-3 ckl; Glenwood Ptly. Farm, Syracuse, N. Y., 4 ckl; T. O. Robinson, Altoona, Pa., 3 plt; Ebenezer Farm, Ivyland, Pa., 5 plt.

R. C. WHITE ORPINGTONS—Glenwood Poultry Farm, 1 ckl; Elm Poultry Yds., 2 ckl, 1 plt.

BLUE ORPINGTONS—Wm. Cook & Sons, 1 cock, ckl, pen; W. W. Deissler, Philadelphia, Pa., 1-2 hen.

SPECKLED SUSSEX—Wm. H. Whittier, Philadelphia, Pa., 1 cock, hen, 4 pen; T. Cadwallader, Doylestown, Pa., 2 cock, pen; Howard L. Davis, New Egypt, N. J., 1-2-3-4-5 ckl, 1-3 pen; T. W. Wilson, Darby, Pa., 5 pen.

DARK CORNISH—F. H. Clement, Hempstead, L. I., N. Y., 1-2 cock, 1-3 hen, 1-2-3 ckl, 3-4-5 plt; Walter W. Thomas, Philadelphia, Pa., 3-4 cock, 2-4 hen; J. N. Hazlett, Marianna, Pa., 5 cock, 4-5 ckl, 1-2 plt; Jas. R. Gillen, Ambler, Pa., 1 pen; M. B. Brauss, Boyerstown, Pa., 2 pen.

WHITE LACED RED CORNISH—Mrs. Wm. R. Johnson, Gratersford, Pa., 1-2 ckl.

WHITE FAVEROLLES—W. W. Deissler, 1 cock, plt, 2 hen, ckl; Pastime Farm, Allentown, Pa., 1 hen, ckl, 2 plt.

SALMON FAVEROLLES—W. W. Deissler, 1 cock, hen; Pastime Farm, 2 cock, hen, 1 ckl.

BUFF FAVEROLLES—Pastime Farm, 1 cock, ckl, plt, 2 hen; W. W. Deissler, 2 cock, 1 hen.



First prize Black Langshan cock and champion male, Illinois State Show, De Kalb, January, 1916. One of the best specimens of this variety shown to date. Bird of grand type and color. Bred and owned by Mrs. R. E. Carr, Route 1, De Kalb, Ill.

LIGHT BRAHMAS—Minch Bros., Bridge-ton, N. J., 1-2 cock, hen, 3 ckl, plt, 1 pen; Wm. L. Cox, Fox Chase, Pa., 3 cock, hen, 1 ckl, 2 plt, pen; Joseph Elias, Mt. Airy, Pa., 4 hen; H. A. Hellyer, Langhorne, Pa., 5 hen; A. Stetler, Lancaster, Pa., 2 ckl, 1-4 plt.

DARK BRAHMAS—D. V. Stewart, Gloversville, N. Y., 1 cock, hen.

BUFF COCHINS—N. G. Temple, Pocopson, Pa., 1 cock, hen, ckl, plt; Mrs. Mary E. Fry, Bainbridge, Pa., 2-3 cock, hen, plt, 4 ckl; Mrs. H. A. Hellyer, 2-3 ckl.

WHITE COCHINS—Mrs. Mary E. Fry, 1-2-3-4 cock, hen, 1-2 ckl, plt.

PARTRIDGE COCHINS—Minch Bros., 1-2 cock, hen, ckl, plt; L. Van Sciver, Chestnut Hill, Pa., 3 cock, hen, ckl, 4 plt; Joseph Elias, 4 cock, 4-5 hen, 3-5 plt.

BLACK LANGSHANS—Alex. N. Warner, Titusville, Pa., 1-2 cock, 1-3-4 hen, 2-3-5 ckl, 1-2-4 plt, J. F. Robinson, So. Weymouth, Mass., 3 cock, 5 hen, plt, 1 ckl; Levi. G. Fishel, Dillsburg, Pa., 2 hen, 4 ckl; Elm Poultry Yards, 3 plt.

S. C. BROWN LEGHORNS—Frank E. Arner, Lehighton, Pa., 1 cock, 2 ckl, 5 plt; H. F. Kressley, Allentown, Pa., 2 cock, 1 ckl, 3 plt; H. D. Corson, Newberry, Pa., 3 cock; Brick House Farms, Glen Mills, Pa., 4 cock, 3 hen, 3-4 ckl, 1 plt; W. W. Kulp, Pottstown, Pa., 5 cock, 2 hen; E. N. Morris, 1-5 hen, 2-4 plt.

R. C. BROWN LEGHORNS—W. W. Kulp, 1-2 cock, ckl, 1-2-3 hen, plt; Kerlin Farm, Pottstown, Pa., 3 cock, 4 hen, plt, 3-4-5 ckl, 1 pen.

S. C. LEGHORNS—E. E. Brubaker, Bird-in-hand, Pa., 1 cock, hen, pen, 1-4 ckl, 1-3 plt; Geo. Barmore, Princeton, N. J., 2 cock, 3-4 hen; F. E. Wilkinson, Merchantsville, N. J., 3-5 cock, 3 ckl, 5 plt; H. C. Wack, Conshohocken, Pa., 4 cock, 5 ckl, 2 pen; Elm Poultry Yds., 2 hen, 2-4 plt; Ryan Bros., Hendricks, W. Va., 5 hen; Simon Kuntz, Red Lion, Pa., 2 ckl; Wm. M. Jones, E. Hampton, N. Y., 3 pen.

R. C. WHITE LEGHORNS—W. W. Kulp, 1 cock, hen, ckl, plt.

S. C. BUFF LEGHORNS—F. A. Schantz, Quakerstown, Pa., 1 hen; M. G. Cook, Spring City, Pa., 1 ckl; P. H. Yost, So. Bethlehem, Pa., 1-2-3 plt.

R. C. BUFF LEGHORNS—M. H. Willis, Brattleboro, Vt., 1 ckl, plt.

S. C. BLACK LEGHORNS—John J. Wick, Chester, Pa., 1 ckl, 2 plt.

S. C. BLACK MINORCAS—Meadow Lawn Farms, Burlington, N. J., 1 cock, pen, 3 hen, 1-4 ckl, 1-3-4 plt; Lavern Poultry Yds., Bridgeton, N. J., 2 cock; James H. Vincent, Hazelton, Pa., 3 cock, 2 hen, 5 ckl, plt; John Robinson, Germantown, Pa., 4 cock, 2 pen; Pratt Ptly. Exp. Sta., Morton, Pa., 5 cock, 1-5 hen, 2 ckl; Dr. H. G. Goldberg, Bala, Pa., 4 hen, 3 ckl; E. E. Brubaker, 2 plt.

R. C. BLACK MINORCAS—Pratt Ptly. Experiment Sta., 1-2 cock, hen, 1 ckl, plt.

S. C. BLUE ANDALUSIAN—John McKibbin, Willoughby, O., 1 hen.

S. C. ANCONAS—Mrs. W. B. Kent, Coatesville, Pa., 1 cock, hen, ckl, plt; A. E. Wohler, Narberth, Pa., 2-4 cock, 4 hen, 2 ckl; Mrs. A. Guetter, Elwyn, Pa., 3 cock, 2-3 hen, plt, 3 ckl; H. Mumbauer, Quakers-town, Pa., 4-5 plt.

SILVER CAMPINES—Geo. Deleruyelle, Vineland, N. J., 1-2 cock, 1 hen, ckl, 2 plt; R. C. Creer, 2-3 ckl; Miss I. V. Shaffer, E. Lansdowne, Pa., 4 ckl; C. E. Loper, Bridge Hampton, N. Y., 1-3 plt.

HOUDANS—Wm. V. Babka, Easton, Pa., 1 cock, hen, 1-2 ckl, plt; Harry Bachman, Philadelphia, Pa., 2 hen.

WHITE CRESTED BLACK POLISH—Hill Top Poultry Farm, Gettysburg, Pa., 1 cock, hen, ckl, plt.

SILVER SPANGLED HAMBURGS—Wm. H. Trump, Germantown, Pa., 1 cock, 2 hen; J. E. Kircheis, La Crosse, Wis., 1 hen, 2 ckl; Pine Cottage Ptly. Farm, Rosemont, Pa., 1 ckl, plt, pen.

BLACK RED PIT GAME—E. S. Jr. & M. H. Dixon, Montgomery, Pa., 1-2-3 cock, 1-2-3-4 hen, 1 ckl, 1-2 plt; H. B. Myrtetus, Camden, N. J., 1 pen; F. S. Walton, Philadelphia, Pa., 2 pen.

WHITE SILKIES—Hill Top Poultry Farm, 1 cock, hen, ckl, plt.

BUTTERCUPS—A. D. Loper, 1 cock, hen, ckl, plt.

LAKENVELDERS—Dr. F. L. Richards, Berwyn, Pa., 1 pen.

ZENOLEUM

Kills Lice and Mites

Disinfects the Hen House, Brooder and Incubator. Cures Roup, Scaly Leg, Canker, Cholera. Prevents White Diarrhoea

Safety First: Zenoleum has been on the market for 17 years. It is a powerful and safe disinfectant. Government vital statistics show that many people have been burned or killed by carbolic acid—more than by any other drug. Kerosene is not a disinfectant, and makes a fire danger. ZENOLEUM is safe to use, day or night, everywhere.

Endorsed by 50 Experiment Stations

Your State Agricultural College is using Zenoleum, and so are forty-nine others.

Disinfect the Incubator

Prof. W. R. Graham, Poultry Expert for the Ontario Agricultural College at Guelph, reports:

"We have succeeded in hatching 7 to 8% more chicks that grow and live well by washing the machine with a 10 per cent solution of Zenoleum before putting in the eggs. It proves of greatest value in maintaining the vitality of the chicks. I would use this substance in every machine set."

Pittsfield Poultry Farms Dip 1,000,000 Eggs

"Each year we use more Zenoleum in incubation. We dip our eggs and wash the incubators. After several years of thorough trial we are convinced it is very much worth while. We now use 185,000 eggs at a setting and Zenoleum is used on every hatch, just as it used to be when we set only 6,000 at a time."

Moderate in Cost—Continue to Use It

"It gives me great pleasure to say that we have used more Zenoleum the past year than in any previous year, not only using it in our incubators, as we have done for a long time, but as a general disinfectant in all our houses, and have used it very freely when doing our summer and fall house cleaning. I know of no better disinfectant and I can heartily recommend it to all poultrymen as being efficacious and very moderate in cost considering the excellent results, and the mere fact that I tried it out thoroughly before using it in a large way and continue to use it, is the strongest endorsement I can possibly give."

MAURICE F. DELANO.

Most of your poultry losses can be avoided by the use of ZENOLEUM. Our wide-open guarantee must convince you that ZENOLEUM is what we say for it. It will help you raise better stock with less worry. Give it a trial at our risk.

OUR GUARANTEE

If Zenoleum is not all YOU think it ought to be, you can have your money back.

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Zenoleum Lice Powder, 25c; postpaid 35c.



60 BREEDS Valuable Poultry Book Free—New 100-page 22nd Annual Edition. Fine purebred chickens, ducks, geese and turkeys—Northern raised, hardy, beautiful. Fowls, Eggs and Incubators, low prices. America's greatest poultry farm. Write today for Free Book.

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TO THE VICTOR BELONGS THE SPOILS

You are herewith introduced to

Champion Gladstone



Winner of 1st Cock

SINGLE COMB RHODE ISLAND REDS
Madison Square Garden
1916

Also Boston, 1916

Also winners of champion challenge cup at Boston. Some win, you will say, but consider this was the only bird we entered at the "Garden" and the competition was the keenest it has been in years. The same is true of Boston. He is the only cock bird we entered and with 23 entries, he captured 1st. If you write promptly, we can supply you with a limited number of his progeny for immediate delivery. Now booking egg orders. Satisfaction or money back is the way we do business.

ROCK LEDGE FARM
SOUTHBOROUGH - MASS.

When Better Birds Are Bred - We Will Breed Them

THE CLEVELAND SHOW.

THIS year's Cleveland Show, conducted by the Cleveland Poultry Breeders' Association, was one of the most successful ever held in Uncle Sam's sixth city. The attendance was good, there was a large entry, and the work of the different judges was such that there was no dissatisfaction on the part of exhibitors so far as we could learn. The association feels that it has outgrown the site of its recent exhibition (Grays' Armory), and it is now negotiating for the engagement of a larger building for its next year's show.

Some people thought that the dates chosen for the show just held, January



Dr. R. H. Lindhorst, Cleveland, Ohio, Secretary The Cleveland Poultry Breeders' Association.

3-8, would have a tendency to cause a falling off in the entry on account of the conflict with Madison Square Garden, but this was not the case, as the exhibits in nearly all the classes were larger and finer than ever before.

The officers of this association are as follows: President and Superintendent, J. O. Somers; Secretary, Dr. R. H. Lindhorst; Treasurer, J. B. Holmden. These gentlemen proved themselves tireless workers and much praise is due them for their efforts; in fact, the whole organization, officers and members, are hustlers, and it is no wonder that they are making such a success with the Cleveland show. Everything was run in an up-to-date manner and every courtesy was shown the exhibitors and visiting fanciers.

The judges were: D. D. Whitaker, J. W. Simmons, L. A. Stream, W. G. Minich, J. E. Gault, A. H. Emch and J. H. Busch. There was quite a change this year in the assignment of the varieties to the different judges which seemed to work out well in many ways.

The cooping was furnished by the Genesee Cooping Co., Rochester, N. Y., and this end of the show was handled in first-class style under the able direction of Geo. Webb.

The show had a number of visitors well known in the poultry world. We saw in the aisles S. T. Campbell, Secretary of the American Poultry Association; F. C. Stier, President Ohio

TOM Barron's Winners

All Egg Contests Prove Them

World's Greatest Layers

Are Still at MORRIS FARM
R. 4 - Bridgeport, Conn.

I have the Most Profitable Flock of Poultry in America, and you cannot afford to be without my blood.

Remember, you take my word for nothing. I state only official records made at National Laying Contests.

In Wyandottes—

\$8.69 worth of Eggs by BARON-ESS V, the 282-egg hen, at North American Contest, 1913-14. Four others laid 274, 271, 258 and 252 eggs. The five laid 1337 eggs, an average of 267, or \$8.21 per hen.

I have a flock of 27 Hens that gave net profit per hen of \$4.67. These are the three Contest Pens I bought of Barron, and which he had at Pennsylvania, Connecticut and Missouri. All my Wyandottes are bred from these.

In Leghorns—

I am breeding the Highest Pedigree Cockerels in the World, out of the 288-Hen, winner at Newport, Eng. This affords new Winning blood for the Barron breeder. Others, 284, 256, 255, etc.

In Buff Rocks—

280, 265, 263, 240, etc. I guarantee all contest birds.

All Breeders tested by Storr's College. Free of white diarrhoea.

MORRIS FARM R. 4 Bridgeport, Conn.

IT SEEMS TO FALL TO

DUSTON

To Bring Out a

White WYANDOTTE

that really marks an epoch in the Wyandotte world.

"Framingham Chief"

stood out as a wonder for shape and quality. There probably was never shown his equal as a cockerel. That bird marked an epoch. At Madison Square Garden, this season another "Duston" cockerel, "Whirlwind 1st," won. This bird marked another epoch. The judge, an old Wyandotte breeder, attending Garden shows for many years, says: "This cockerel was the best he had ever seen in competition in the Garden." That is going some. I have won 1st cockerel between these males, but such birds are just winners, not models of the classic in Wyandottes. In addition to 1st cockerel, I won 1st pen, 4th and 5th cocks, 2nd and 3rd hens, 1st and 4th pullets, 1st collection (36 points to my nearest competitor's 19). Champion White Wyandotte male, best shaped male, best headed male. Mr. Sewell said after carefully going over the classes, if he wanted a model for a Wyandotte head he would choose 1st cockerel. Best shaped female, best headed female, and seven other specials, winning over Palace and Philadelphia winners. This on top of the winners I have sold proves the claims I have made as to the unsurpassed quality of my stock. I can furnish you breeders and show birds. Eggs from exhibition and practical matings. Send for catalog to the breeder who has made possible the world's best flocks.

ARTHUR G. DUSTON, Box 1020, Framingham, Mass.

Comeback Collapsible Brood

Coop slip together, take apart with your hands, no hammer, nails, bolts or screws, solid, sanitary, louse, rat and rain-proof. Repairing the old wood coop to save money is like stopping the clock to save time. Perfect protection while they are little will result in a larger per cent of mature birds. Ask for circular.

McDaniel & Cessna, Kansas, Ohio



THE EDWARDS BROODER

\$7.50 for 100 Chick Size
Rat and fire proof. Cost of oil only 5c per week. Chicks raised on a bed of warm sand.

Write for Circular.
A. A. E. BROODER MFG. CO.
New Wilson, Oklahoma



Raise Belgian Hares

and Make Big Profits. Demand bigger than ever. Start small, grow big. Big hare book for six (6) 2c stamps.

Farmers' Rabbitry, 309 Catharine St., Red Bank, N. J.

50,000 CHICKS for 1916

Wyandottes, Leghorns, Rocks. Broilers—7 cents each and up. Healthy, vigorous chicks—safe delivery guaranteed. Eggs \$1 per 15; circular free.

KEYSTONE HATCHERY
Box 60 - Richfield, Pa.

Andrews' Blk Orpingtons

Winners at Brooklyn and the Grand Central Palace, New York. I can furnish you with birds that win. Order eggs for hatching early. Prices reasonable. Silas H. Andrews, 208 2d St., Mineola, N. Y.

S. C. WHITE ORPINGTONS

Seven entries and 7 places at this year's (1915) Forest City Fair, Cleveland. Stock and eggs for sale. Correspondence solicited. George H. Singleton 14530 Detroit Avenue Lakewood, Ohio

Bean's Harvard Reds Win Again at New York

First Pen, first, second, third and fifth Cock, first Cockerel, second Pullet and third Hen in Rose Combs. Easily the most sensational win on Rhode Island Red males in history of Madison Square Garden. Add second Pen, third Cockerel and second Best Display on Single Combs at the same show—then emulate a certain gentleman of historical fables, at the end of 20 years of slumber. You know Van did wake up. Descriptive circular, price list and illustrated mating list, yours for the asking.

I. W. BEAN

314 Pond St., South Braintree, Mass.



SILVER and
GOLDEN

CAMPINES

The Egg and Money Makers

Eggs for hatching—that will hatch—from the grandest birds that are properly mated for best results. Bulletin of facts free. My book "Campineology," de luxe and two-colored plates, 10c.

J. FRED N. KENNEDY
Box F Birch Cliff, Ont., Can.

Quality Wh. Wyandottes

Seventy-two Winnings This Season.

I can furnish you with high grade stock and eggs at reasonable prices. Book egg orders now.

Chicago's Largest Breeder of White Wyandottes

M. F. MARTIN, 3859 Park Avenue, Chicago, Ill.



Royal English Sussex

"The favorite Family Fowl."
Stock and eggs for sale;
moderate prices. Send for
mating list.

PINEHURST FARM.
Box B. Oberlin, Ohio

Gilbert's Columbian Wyandottes are winners, as well as heavy layers. Won 1st cockerel, 1st cock, shape and color specials at Lawrence, Mass., January, 1914; 1st and 2nd cockerel at Lawrence, January, 1915, and 1st pen at the Boston Show, January, 1916. Eggs from 2 best pens, \$5.00 per setting of 15; 4 other good quality pens at \$3.00 per 15. Breeding cockerels, \$3.00 and up. Satisfaction guaranteed.

Gilbert Poultry Farm, Whittier Road, R.F.D. 1, Haverhill, Mass.

The Barred Rock Handbook (Copyrighted), 128 pages, clothbound, illustrated. Treats fully history, mating and judging Barred Rocks. Contains names and addresses of 1,100 breeders. Price 75c, including your name and address in next edition. The National Poultry Institute, Topeka, Kans.

Clemans' Columbian Rocks

The big-boned sturdy kind. Greatest of all-purpose fowls. Birds for sale. Circulars.

F. M. Clemans Mechanicsburg, Ohio

Square Deal Poultry Farm's S. C. Black MINORCAS

Again winners at Chicago in strong competition; 3d chl., 5 ck., 4 hen and 3d pen; 9 pens for egg trade and baby chicks. Write for prices.

MRS. TELL E. WATTS WEST CONCORD, MINNESOTA

Buff Orpingtons

Eggs for sale from the first prize young pen at the State show. Extra fine in color and type; also stock for sale. Jos. Pottinger, Route 21, Peru, Ill.

S. C. White Leghorns

Day-old Chicks. Hatching Eggs.

HOUGH EGG FARM Box J, Far Hills, New Jersey

S. C. WHITE LEGHORNS

Eggs for hatching from record pens \$1.50 and \$2.00 per 15; \$4.00 and \$6.00 per 100. Satisfaction guaranteed. Place your order early.

MOKENA POULTRY FARM, Mokena, Ill.

S. C. WHITE LEGHORNS

Prize winners at Indianapolis, Fort Wayne and Berne of 5 firsts, 2 seconds, 5 thirds, 4 fourths, 1 fifth. Eggs for sale. Joseph Mazelin, Berne, Ind.

State Poultry Breeders' Association; Prof. M. C. Kilpatrick, Ohio State University; H. C. Shepherd, Eugene Sites, T. H. Kline, Pub. Manager of the Forest City Fair, Len Rawnsley, and numerous others.

Barred Rocks—One of the largest and finest classes of this variety shown in Cleveland in several years. There were 60 single entries and 9 pens. Fine Plymouth Rock type and even, snappy barring were conspicuous among the winners.

Buff Rocks—Strong in numbers and quality. Awards somewhat split up among the different exhibitors.

Partridge Plymouth Rocks—A big class, full of quality.

White Rocks—A heavy entry, with



First S. C. Ancona cockerel at Cleveland, Ohio, January, 1916. J. O. Somers, Bedford, Ohio.

some beauties among the winners.

White Wyandottes—A very fine class, consisting of 53 singles and 5 pens. The first and second prize winners were all extra good.

Partridge Wyandottes—We don't believe there was ever a better quality show of this variety anywhere. They were out in force, too—61 single entries and 8 pens.

Buff Wyandottes—Not as large a class of Buffs as are usually at Cleveland, but some excellent birds were among the winners. The same can be said of Black, Golden, Silver and Columbian Wyandottes.

S. C. Reds—73 singles and 4 pens were lined up for the judge's inspection, and in Rose Comb Reds, 62 singles and 11 pens were on deck. We won't comment on any particular birds, as there were so many good ones both among the winners and those not quite good enough to get a place. Judge Simmons pronounced the showing of Reds at Cleveland one of the finest he had ever seen.

Rhode Island Whites—Were represented by a small but select class.

Light Brahmas—Light in numbers, but winners of good quality.

Black Langshans—Not a very large class. The winners of the several first prizes were real classy.

S. C. Brown Leghorns—Fair in numbers and excellent in quality, especially first cock, first and second hen and first cockerel.

S. C. White Leghorns—The banner

Improver

White Wyandottes

At Great Chicago Coliseum Show

1st Hen

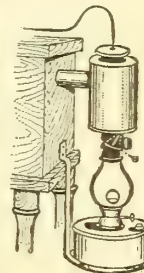
1st Pullet, 1st Young Pen

Show birds, \$10.00 up. Nice Cockerel, \$5.00 and \$7.50. Pens, \$15.00 to \$20.00. Pullets, \$2.

Return unsatisfactory stock at my expense.

L. J. DEMBERGER, Box 89

STEWARTSVILLE : INDIANA



SEE

the Heat-Check between chimney and heater? It does the work of two eyes and two hands—busy all the time, and makes an incubator hatch eggs the same as hens do it. Costs \$1.00 each. Attach it yourself to any old incubator or one of latest model. Just as well adapted to heated brooders. Fully guaranteed. Send postal for full description.

UNIVERSAL HEAT-CHECK

Factory 65 Buffalo, New York



Licecil
Kills Lice

JOHNSON

Says:

"I found LICECIL the best thing I ever used. Here are stamps, send me another bottle."—L. M. Johnson, Plumville, Pa. If you want testimony get "Seeing is Believing" circular free. Let LICECIL help you as it does others. Bottle, 50c; 3 bottles, \$1.25, postpaid. Make money selling LICECIL and EGGE for us this winter as others do.

Melzer Mfg. Co., Box 35, Quincy, Ill.



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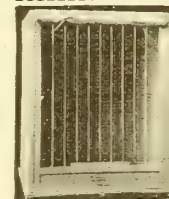
SANITARY Non-

Freezing Fountains

No lamps No valves
Non-clog Feed Hoppers, etc

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write for circulars.

Manufactured exclusively by
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Send for catalog for
Poultry Supplies to

WARNER, "The Coopman"
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P. S. Specially constructed coops of
any size. Write your wants.

S. C. White Leghorns

Eggs for hatching from Prize winning stock. Satisfaction guaranteed. Send for mating list.

K. C. Boggs, Olney, ILL.

BIGELOW'S WHITE ROCKS

Win at 1916 Cleveland show. 1 young pen; 1 cock, 2 hen, 1 and 4 cockerel, 4 pullet. Eggs for sale. Get prices before buying.

P. C. BIGELOW, : Box A : Medina, Ohio

S. C. White Leghorns

Heavy winners at Akron, Cuyahoga Falls and Canton. Write us for prices on stock and eggs.

P. J. FERRIS - Box A - Cuyahoga Falls, Ohio

WOODS' BUFF ORPINGTONS

Have won for 15 years. See list of 1915 winnings this issue. Fine cockerels, pullets and pens yet for sale. Four grand pens mated. Mating list free.

QUALITY FARM, H. M. Woods, Carlisle, Ill.

Queen - Built to Hatch Without Trouble

The Queen is built for results—under any and all conditions. We make the assertion that it will produce, year in and year out, **better hatches of stronger chicks**, with less attention than any other machine on the market—at any price.

Most any machine will hatch under ideal conditions, but if you are in the poultry business, you can't always have ideal conditions, and you must be protected against the unexpected, such as a sudden drop in temperature. The Queen Regulator will take care of a sudden change in temperature of seventy degrees.

Best East or West

John Bowen, of the Colorado Poultry Fanciers Association, wrote Sept. 24, 1915: "Last season the writer installed a Queen as an experiment, and found that it hatched 18 per cent better than Eastern made machines and 11 per cent better than any machine in the West. All the machines were run under exactly same conditions."

Richard Wayte, Gary, Ind., writes: "I have been in the poultry business and used both hot water and hot air machines. I have made a very thorough comparison of 12 different machines, and the Queen is the most thoroughly constructed of all."

Not a Cheap Machine

The Queen is not a cheap incubator, compared with many of the cheaply constructed machines on the market, but it is cheap in the long run. It will be turning out high-percentage hatches years after the cheap machines have been junked. It will be a pleasure to send you our new Catalog. Mailed free on request.

QUEEN INCUBATOR CO., 105 Bryan Ave., Lincoln, Neb.

Brown's Fence Bargain Book READY! WRITE NOW!

BIGGEST, BEST FENCE BOOK EVER PRINTED
Hold your fence order till you get my new book and new low prices. Let me prove that, though my prices beat them all, there isn't another wire fence in the world that stands up slick and clean, free from rust, year after year, as long as *Brown Fence*! I've already sold 25,000,000 rods to over 400,000 farmers and poultrymen.

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Yes Sir! We sell direct to you and prepay the freight anywhere. Every rod made of genuine Basic Open Hearth Wire, then heavily Double Galvanized by the wonderful and exclusive Brown Process. Our poultry and garden fences are cheaper than chicken netting and last 6 times as long. Send your name now for a postal for fine new book and sample of Brown Fence to test. I'll save you money on Gates and Steel Posts, too.

THE BROWN FENCE AND WIRE CO.

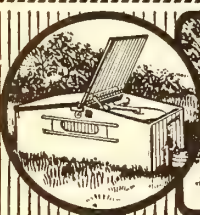
Dept. 3 Cleveland, Ohio



**I'VE SOLD
25,000,000
Rods**

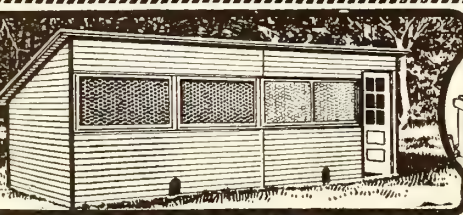
The Brown Fence in use would reach 3 times around the world. My new Book tells why so much is bought. Write for it.

Jim Brown



Brooder

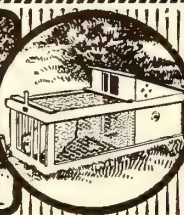
**HODGSON
PORTABLE
HOUSES**



No. 3 Poultry House—2 units

BROODER can be operated out-of-doors in zero weather with little attention or expense. 50 to 100 chicks.

No. 3 POULTRY HOUSE—Fitted complete for 60 hens—8x20 feet. \$110. First pen, \$60; additional pens, \$50 each. Red Cedar, vermin-proof. SETTING COOP to set a hen in and brood her chicks. \$3.



Setting Coop

All neatly painted and quickly bolted together. Send for illustrated catalogue.

E. F. HODGSON CO. (Room 332, 116 WASHINGTON ST., BOSTON, MASS.) Address all correspondence to Boston (CRAFTSMAN BLDG., 6 EAST 39th ST., NEW YORK)

LAYERS OR SHOW BIRDS

We can supply you birds that cannot be excelled for type, color, or as egg producers. Our birds have free range on a 300 acre orchard, meaning sturdy, vigorous fowls; 265 trap-nests in operation, so we know what these birds will do.

White Wyandottes and S. C. White Leghorns.

STRAINS ESTABLISHED 1906

LAKEWOOD FARM

HOLLAND, MICH.

class of the show, with 122 single entries and 17 pens. There was quality to burn in this class. The writer took particular liking to first cockerel and first and second pullets.

Buff Leghorns—Fair sized class of good quality Black Leghorns, the best class ever seen at Cleveland, and quality of winners was great. There were several excellent birds unplaced that were bought from well known farms at long prices to win at this show, so you can imagine how keen was the competition and how excellent were the winners.

R. C. Brown, R. C. White and Silver Leghorns—Light in numbers, but quality good, especially in Silvers.

R. C. Black Minorcas—The International R. C. Black Minorca Club held its annual meet at this show and there was brought together one of the



The first prize White Wyandotte cockerel at Cleveland, Ohio, January, 1916. C. W. Sixt, West Park, Ohio.

largest and finest classes of this variety ever shown. There were surely some stars among the winners.

S. C. Black Minorcas—Another strong class in both numbers and quality.

Anconas—Not as large a class as is usually seen at Cleveland, but fine in quality, especially first hen and first cockerel in the single combs.

Orpingtons—This year the management decided to place W. G. Minich as judge of this class and the wisdom of this course proved good, as the finest, and probably the largest, entry of Orpingtons of the three more popular colors ever in Cleveland was shown. To say that the exhibitors were justified in their confidence thereby shown in "Bill" Minich's ability to handle the class is putting it mildly, as much favorable comment of his work was expressed. Among the Blacks were some stars, with competition keen. Buffs were a wonderful class, strong in numbers and with quality galore. The first prize cockerel in this class won the special for the best cockerel of any variety in the show. He was certainly the admiration of all eyes. White Orpingtons; a large class, the winners of the highest quality and shown in beautiful condition.

Red Sussex and Speckled Sussex—

Strong classes and keen competition, as might be expected when a lot of the winners at the Panama-Pacific, Chicago and other big shows get together.

Silver and Golden Campines—One of the largest and finest classes we have yet seen, some well known winners at other big shows being in competition.

White Crested Black Polish — A small class, but the first hen was indeed a beauty.

Houdans, Faverolles, Cornish — Small classes, but winners good in quality.

One fine pen of Silkies was shown. We were glad to see a better and larger showing of Bantams than is usually the case at Cleveland.

Some good Bronze turkeys were shown, also one very nice pair of Narragansetts.

Pekin ducks were very good, also there were some good Muscovy ducks and a few Toulouse and White China geese.

The awards follow:

R. C. ANCONAS—Geo. Young, Williams Ave., West Park, O., 1 cock, 2-4 hen, 1-2 chl, 2 plt, 1 yng pen; E. P. Bohrer, 122 River St., Berea, O., 2 cock, 3 hen, 4 chl; J. O. Somers, Bedford, O., 3 cock, 1-5 hen, 3 chl, 1 plt, 2 pen.

S. C. ANCONAS—Frank Stier, 2705 Marvin Ave., Cleveland, O., 1 cock, 4-5 hen, 2-3 plt; J. O. Somers, 2-3 cock, 1-2-3 hen, 1-2 chl, 1-4 plt, 1 yng pen, 1 old pen; E. P. Bohrer, 5 cock.

ANDALUSIANS BLUE—J. W. Svoboda, 5107 Dalton Ave., S. E. Cleveland, O., 1 cock, 1 plt; C. Kennelly, 2003 W. 58th St., Cleveland, O., 2 cock, 1 chl.

LIGHT BRAHMAS—G. C. Wright, 2335 Riverside, Lakewood, O., 1 cock, 1-3-4 hen; Mooreland Farms, Mentor, O., 2 cock, 2-5 hen; John Naugle, Fremont, O., 1 chl, 1 plt.

BUCKEYES—S. G. Dunning, St. Marys, O., 1 cock, 1 hen.

SICILIAN BUTTERCUPS—Chantecier Ptg. Plant, Ulster, Bradford Co., Pa., 1 cock, 3 hen, 3-5 chl, 3-4 plt, 1 yng pen; W. H. Hopple, 50 Clay St., Tiffin, O., 2 cock, 1-2 hen, 1-2 chl, 1-2 plt, 2 yng pen, 1 old pen; M. E. Heath, La Grange, O., 3 cock, 4 chl, 3 yng pen.

GOLDEN CAMPINES—C. G. Battles, Forest Ave., Wellington, O., 1 cock, 5 hen; Five Acre Farm, 400 Howe St., Akron, O., 2 cock, 1-3 hen, 5 chl, 3-5 plt; Gensemer Bros., Creston, O., 2-4 hen, 2-3-4 chl, 1-2-4 plt, 1 yng pen; Reliable Campine Farm, Berea, O., 1 chl.

SILVER CAMPINES—E. W. Stephans, 318 S. Franklin St., Eaton, O., 2 cock; Gensemer Bros., 1 hen, 1-2-5 chl, 1-2-4 plt, 1 yng pen; R. N. Morgan, Box 792, Geneva, O., 3 chl, 4 yng pen, 1 old pen; Loghry & Wesco, Stoneboro, Pa., 4 chl, 3 plt, 3 yng pen; G. M. Smith, Pinehurst Farm, Oberlin, O., 5 plt, 2 yng pen.

DARK CORNISH—O. C. Wilcox, 4275 W. 30th St., Cleveland, O., 1-2 cock, 1-5 hen, 1 chl, 4-5 plt; Lincolnway Poultry Farm, E. Main St., Ashland, O., 3 cock, 2-3 hen, 2-3 chl, 1-2 plt.

SALMON FAVEROLLES—G. M. Smith, Oberlin, O., 1-2 chl, 2-3 plt; A. Essing, W. 25th St., Cleveland, O., 1-4 plt.

BLK. B. RED GAMES—David Brash, 23 Prospect St., Ashtabula, O., 1 cock, 1-2 hen.

PIT GAMES—O. C. Wilcox, 4275 W. 30th St., Cleveland, O., 1 cock.

OTHER VARIETIES GAMES — David Brash, 1-2 hen.

S. S. HAMBURGS—Otto Ververka, 3366 E. 139th St., Cleveland, O., 1-2 cock, 1-2 hen, 1 chl.

HOUDANS—L. A. Loesch, 420 W. 16th St., Erie, Pa., 1 cock, 2-3 hen, 1 plt; James M. Derby, 1023 W. 25th St., Erie, Pa., 1-4 hen, 1 chl, 2-3 plt; W. F. Schwemler, 4153 E. 110th St., Cleveland, O., 5 hen, 2 chl, 4-5 plt.

BLACK LANGSHANS—H. E. Rogers, 2911 Daisy Ave., Cleveland, O., 1 cock, 3

hen, 1 chl, 1 plt; Wm. Buddenhagen, So. Brooklyn, O., 2 cock, 2 hen, 2-3 chl, 2 plt, 1 yng pen; Mooreland Farm, Mentor, O., 3 cock, 1 hen; Guy C. Pexton, 403 River St., Dayton, O., 4 cock, 4-5 hen, 4 chl.

BLACK LEGHORNS—R. M. Henderson, 839 South Ave., Toledo, O., 1 cock, 2 hen, 2 plt; Scott Long, Carey, O., 2 cock, 4 hen,

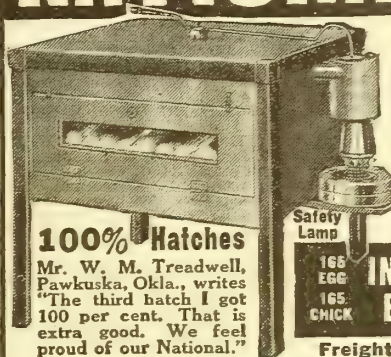
1 chl, 4 plt, 1 old pen; M. L. Myers, 10914 W. 5th, Marysville, O., 3 cock, 2-3-5 chl; J. C. Hiles, 18208 Cornwall Rd., Beachland, Cleveland, O., 4 cock; R. H. Lindhorst, 2824 W. 14th St., Cleveland, O., 1-5 hen, 5 plt; L. D. Allen, New London, O., 3 hen, 3 plt; Wm. Kloefer, 3906 Daisy Ave., Cleveland, O., 4 chl, 1 plt.

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100% Hatches

Mr. W. M. Treadwell, Pawkusa, Okla., writes "The best hatch I got 100 per cent. That is extra good. We feel proud of our National."

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Strongest and most durable incubator made. Peter Kilpatrick, Nazareth, Pa., writes, "Is the best incubator in seven states. Have made better hatches than anyone here." A proven cold weather hatcher. Built on U. S. Gov't specifications.

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Hot water heat—double wall—dead air space—double glass doors—astobes lining—self regulator famous NATIONAL regulator and boiler—metal covered. Not a cheap tin machine. Will not warp or shrink. Money cannot buy a better incubator.

INCUBATOR BROODER Both \$10

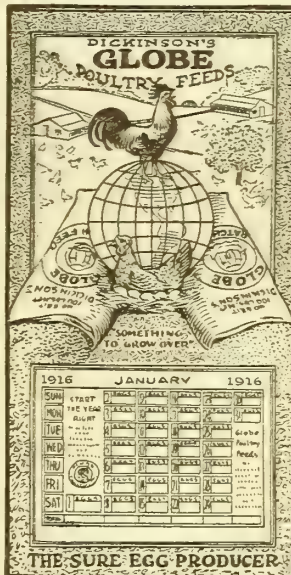
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A bigger, better, simpler machine than ever at no increase in price. Send in your order direct if you wish and save time. You risk nothing. We will send machines—if not satisfactory send them back; we pay return freight charges and refund your money. Comes set up ready to run with egg tester and book of instructions. 1916 Catalog FREE, tells you about new 1916 machines. Also our free book "Poultry Points." Get the facts—send for it today, sure.

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and we want you to be able to know just how much better these feeds make them lay. "GLOBE" Poultry Feeds are scientifically blended from pure, sweet, thoroughly cleaned grains. No screening or siftings are used. They go farther and nourish more than ordinary feeds. Try feeding your layers "GLOBE" Scratch Feed with "GLOBE" Egg Mash. Feed your young chicks "GLOBE" Chick Feed and "GLOBE" Developing Feed.



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BERRY'S QUICK ACTION GRAIN SPROUTER

SPRING CONDITIONS IN WINTER AND FEED TEN CENTS PER BUSHEL MAKE BIG STEADY INCOME

Here is what it will do—Results in a nutshell:

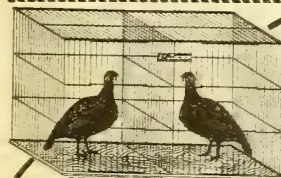
- Diminishes cost of feed 50 to 100%
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"BERRY'S QUICK ACTION" is undoubtedly the leader. Perfected from actual experience and careful tests and comparisons on our practical poultry farm. Made of galvanized rust-proof steel. Indestructible, safe, quick, easy to operate, low in cost. You are Protected by our Absolute Ironclad Guarantee. "BERRY'S QUICK ACTION" will do what we claim or your money back. Sold on the Golden Rule Plan—A SQUARE DEAL TO ALL.

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Show your fowls in your clean and handy, vermin-proof coops. Used by leading fanciers and poultry shows. Finest looking coop on market.

Keipper Collapsible Coops

Made entirely of galvanized wire. Fold perfectly flat. Easily stored. Easy to set up. Shipped by parcel post. Outfits rented to bench shows. Write for catalog and money-saving prices.

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We Are Shipping 20,000 Chicks this Month

45,000 in March

50,000 in April

60,000 in May

and All S.C.W. Leghorns

All one strain and breeding. How many of these do you want? Write us for open dates of shipment. Don't forget that our Leghorns are all one strain, and have given such satisfaction in the past that we believe today we are the largest shippers of this breed in this section of the country.

We are not simply poultry keepers, but are real genuine breeders of a recognized strain of utility Leghorns. We sell chicks that are easily raised, and will develop into big money makers for you the coming season. We don't simply run a hatchery, but control the breeding of our strain of birds and every year sees a higher quality of stock leaving our farm. Our Leghorns have got size, good looks, and grand laying qualities of good sized eggs.

Our prices are about the same as you pay for ordinary, haphazard bred stock. Our chicks cost from 13c to 17c, according to the amount you purchase, whether 25 or 5,000 chicks.

We issue one of the largest illustrated Leghorn catalogs of any breeder in the country, which is chock full of information of all kinds, either for the beginner or the experienced poultryman. Our big business has been built up from making our customers successful. You should at least try out some of our Leghorn chicks the coming season. They are proving a revelation to a great many breeders in different parts of the country.

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Just send a post card to the Buckeye Incubator Co., 501 Euclid Ave., Springfield, Ohio, and they will send you the book without charge. It costs you nothing and may be worth many dollars to you. Send for it today.

R. C. BROWN LEGHORNS—Howard Stoker, Washington, C. H. O., 1 cock, 1 hen, 2-3-4 ckl, 1-2 plt; F. D. Buck, Box 713, 20 Garfield, Geneva, O., 1 ckl.

S. C. BROWN LEGHORNS—Wm. J. Wittman, Glade, O., 1 cock; J. E. Gault, Chippewa Lake, O., 2-5 cock, 2-5 ckl; E. C. Armstrong, 2234 E. 5th St., Dayton, O., 3 cock, 1 ckl; Chas. F. Friend, 8 Pine St., Norwalk, O., 4 cock, 5 hen, 3 ckl, 5 plt; Rosemont Farm, Franklin, Pa., 1-2-4 hen, 4 ckl, 1-3-4 plt; 1 yng pen; Dr. O. G. Grady, Orville, O., 3 hen, 2 plt.

R. C. BUFF LEGHORNS—J. Boesch, 3430 Memphis Ave., Cleveland, O., 1-2-3 plt. S. C. BUFF LEGHORNS—G. J. Gable, 1222 Colton St., Toledo, O., 1 cock, 3 hen; G. W. Medick, 437 N. 6th St., Cambridge, O., 2-4 cock, 2-4 hen, 1-2-4 ckl, 2-4-5 plt; R. M. Wolfe, West Carrollton, O., 3 cock, 5 hen, 5 ckl, 1 plt; C. V. Norris, Boone Co., Thorntown, Ind., 1 hen, 3 ckl; Iva Badger, Burbank, O., 3 plt.

SILVER DUCKWING LEGHORNS—J. C. Hiles, 1 cock, 1 hen.

R. C. WHITE LEGHORNS—H. H. Hatch, R. No. 1, Phalanx, O., 1 ckl, 1 plt.

S. C. WHITE LEGHORNS—S. L. Henry, 14017 Woodworth Rd., Cleveland, O., 1-5 cock, 4 old pen; Geo. Wolfrom, Carey, O., 2 cock, 2 old pen; R. H. Snyder, R. F. D. No. 2, Wadsworth, O., 3 cock, 1 hen; P. J. Thompson & Son, 1411 5th Ave., Youngstown, O., 4 cock, 2 ckl; H. C. & C. W. Sixt, West Park, O., 2-4 hen, 5 ckl, 1-2 plt, 1 yng pen, 3 old pen; Alex. Scott, 46 Pitney St., E. Cleveland, O., 3 hen; A. M. Faivre, R. D. 43, Greenville, Pa., 5 hen, 3 plt; Ed. Saint, 924 E. 139th St., Collinwood, O., 1-3



One of the winning Rose Comb Black Minorca cockerels at Cleveland, Ohio, January, 1916. Phillip J. Minch, 1907 E. 97th St., Cleveland, Ohio.

ckl; John Cochrane, 44 Pitney St., E. Cleveland, O., 4 ckl; Chas. B. Cerny, 2840 E. 99th St., Cleveland, O., 4 plt, 2 yng pen; Rosemont Farm, 5 plt; East End Poultry Yards, 8803 Capitol Ave., S. E., Cleveland, O., 3 yng pen, 5 old pen; Miss C. C. Fish, Berea, O., 4 yng pen; R. K. Kyle, Bourbon, Ind., 5 yng pen, 1 old pen.

R. C. BLACK MINORCAS—H. A. Keister, R. D. No. 3, Bangor, Mich., 1 cock, 1-2 hen, 1-3-4 ckl, 1-4 plt, 1 yng pen, 2 old pen; Mrs. C. A. Shoemaker, Granville, Summitt, Pa., 2 cock, 3 hen, 2 ckl, 5 plt, 2 yng pen; Ross Swartout, R. R. No. 2, Brantford, Ont., Can., 3 cock, 5 hen, 2 plt, 1 old pen; C. & C. Davidson, 1386 So. Third St., Columbus, O., 4 cock, 4 hen; S. P. White, 1261 Grant Ave., Columbus, O., 5 cock; P. J. Minch, 1907 E. 97th St., Cleveland, O., 5 ckl, 3 plt, 3 yng pen; E. M. Campbell, 571 N. 4th St., Sta. B, Columbus, O., 3 old pen.

S. C. BLACK MINORCAS—Mrs. Elsie Uher, 1577 E. 118th St., Cleveland, O., 1-5 cock, 1-2-5 hen, 2 plt; Guy C. Pexton, 403 River St., Dayton, O., 2 cock; L. D. Davis, 403 E. Broadway, Wellston, O., 3 cock; R. & C. E. Wagner, 1021 Yellowstone Rd., Cleveland Heights, O., 4 cock; Louis E. Weber, 10104 Cumberland, O., 3 hen, 3 ckl, 5 plt; Henry Ogle, 2636 E. Blvd., Cleveland, O., 4 hen, 1-5 ckl, 3 plt; G. L. Gravatt, Rocky River, O., 2-4 ckl, 1-4 plt.

S. C. BUFF MINORCAS—F. A. Seyert, 8510 Linwood Ave., Cleveland, O., 1 ckl, 2-3 plt; J. F. Beswick, Berea, O., 1 plt.

R. C. WHITE MINORCAS—A. J. Griffa, Mantua, O., 1 cock, 1 hen; Josephine Griffa, 1320 E. 117th St., Cleveland, O., 1 ckl, 1 plt.

S. C. BLACK ORPINGTONS—Moore & Bowles, 1020 West St., Fremont, O., 1-2 cock, 1-2-4 hen, 2-3 ckl, 1-2-4 plt; F. Praikshatis, 3608 Mapledale Ave., Cleveland, O., 3 cock; J. H. Busch, 3722 Brooklyn Ave., Cleveland, O., 4-5 cock, 5 hen, 5

Chicks that Live

are hatched cheapest in a Paradise Hatchery, which is controlled by the only perfect regulator ever created—you can't go wrong—world's greatest hatching method. Don't set a single hen or an egg in any way until you get my literature—start 1916 hatching season right.

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was the verdict of the Club Members and the



visitors at the Owensboro (Ky.) Poultry Show, writes Sec. Carpenter. Another: "We have used your Paradise Hatchery several seasons with grand results." Another: "We have had excellent hatches of strong, vigorous chicks and it is indeed a pleasure to hatch chicks the Paradise Way." Names given; also, more proof. Success is sure if you adopt the Paradise—absolutely no guess work. \$5,000 given away free in 1916 big introductory offers. Nothing like it ever before attempted by a reliable party. Write at once for free literature—do it now. Agents wanted everywhere. Remember: The Pleasure and Profit Way of chicken hatching is via the Paradise Way—"You'll Like It."

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Middlemarch Champion Strain of

ORPINGTONS

BUFF and BLACK

Win at The National Buff Orpington Club Show, Chicago Coliseum, in strongest class of Orpingtons ever gathered in Chicago, a 2nd, 3rd, 5th and 6th. Also in past two seasons: Great Minnesota State Fair, 1-2-3-4 cockerels; La Crosse, Wis., all 5 firsts, 1 cock, 1 cockerel, 1 hen, 1 pullet, 1 pen, best display, best 10 birds; Birmingham, Ala., 1-2-3-4; Minneapolis (two entered), 1-2.

For customers in Rutland, Vermont; International Live Stock Show, Sioux City, Iowa; Gray Harbors Show, Washington; Sioux City Winter Show; Huron, S. D.; St. Cloud, Minn., and many others. It takes merit to win. Stock at all seasons.

Half price on all Eggs ordered before March 1, 1916. Ten live chicks guaranteed. Eggs delivered when you want them.

Finest matings in Blacks in the West. Finest matings I ever had in Buffs. They are the result of years of careful breeding and selection. Most liberal guarantee on eggs. Place your orders early.

\$10.00, \$5.00, \$2.50 for 15 eggs
Before March 1, \$5.00, \$2.50, \$1.50 for 15 eggs

JESSIE F. GORDON, Box 535, Spring Valley, Minn.
Sec.-Treas. of Minn. Branch of A. P. A.

CHAMPION

Rhode Island Reds

Win 1st hen and 4th cockerel at Greater Chicago Show, January, 1916, only three birds entered. Stock and eggs for sale. Eggs from 1st pen, \$5.00 per setting. This pen includes 1st hen at Chicago.

FRANK JOHNSON, 220 W. 110th St., Chicago

SCHABELL'S

Wh. and Buff Orpingtons

Win 1st prize pen at Chicago, January, 1916; 1st, 2nd and best pullet at Melrose Park; 1st young pen and 1st, 2nd, 3rd, 4th and 5th in singles at South Shore Show. Trapnesting all birds. Highest egg record 142 eggs per year. Eggs and stock. Mating list free.

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White Wyandottes

Eggs from high class matings that will produce winners. \$2.00 per 15. Satisfaction guaranteed.

FRED A. RUE, Crown Point, Ind.

S. C. WH. ORPINGTONS, a Specialty

At Great Pittsburgh show—16 birds entered, everyone placed and none lower than 4th. Also cup for best display. Fancy birds, but not fancy prices. Book your egg order now.

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Get the HOUDANS and Golden Sebright

BEST BANTAMS. Stock and eggs very reasonable.

Ralph W. Cagwin Williamstown, N. Y.
One of America's Oldest Fanciers.

Barred Rocks—At Boston, 1916, we entered 2 birds and won 1st PULLET, also 4th Pullet bred cockerel. This wonderful win, and there were 10 exhibitors. Stock and eggs, just like these winners.

Bear Brook Poultry Farm Wakefield, Mass.

"PREMIER" Partridge Wyandottes

Win majority of the prizes wherever shown. Breeders of "Premier" Partridge Wyandottes do not find it necessary to advertise ancient winnings, as they win the majority of the prizes every year. The following records tell the story plainer than pages of "talk". Sheffield Farm birds won at

Boston, January, 1916—4 firsts, 5 seconds, 4 thirds, 1 fourth.

Cleveland, O. (Nat'l P. W. Club Show), January, 1916—4 firsts, 3 seconds, 4 thirds, 3 fourths, 2 fifths.

Madison Square Garden, N. Y., January, 1916—3 firsts, 2 seconds, 2 thirds, 1 fourth.

Palace Show, N. Y., December, 1915—5 firsts, 4 seconds, 1 third, 2 fourths.

At the Allentown, Hagerstown, Syracuse and Indianapolis Shows, held during the Fall of 1915, we won 21 firsts out of a possible 23.

While the above list of unequalled winnings will give you an idea of the quality of the birds bred and owned by Sheffield Farm, their customers in a great many cases did equally as well, winning 1 third, 2 fourths, 1 fifth at **Madison Square Garden**; 2 thirds, 2 fourths, 1 fifth at the **Palace Show, N. Y.**; 1 first, 2 seconds, 2 thirds at **Cleveland**, and a goodly share at all the prominent shows of the year.

At the **San Francisco Exposition** in 1915 the 1st hen and 2d cock were "Premier" strain Partridge Wyandottes.

Unexcelled for utility and beauty, they are undoubtedly the "Twentieth Century Fowl." We can satisfactorily supply you with Exhibition and Breeding stock, young or old, at reasonable prices.

Eggs \$5.00 per setting of 15.

Partridge Wyandotte book free.

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H. B. HARK, Mgr.,
Poultry Dept.

GLENDAL E OHIO

ckl. 5 plt; H. E. Depue, Windfield, Ave., Findlay, O. 3 hen, 1-4 ckl, 3 plt.
BLUE ORPINGTONS—A. F. Elliott, Port Huron, Mich. 1 ckl.
S. C. BUFF ORPINGTONS—F. A. Poertner, Berea, O. 1 cock, 2 old pen; A. C. Williams, Revanna, O. 2-3-5 cock, 3 hen, 1-2-5 ckl, 4-5 plt, 1-3-4 yng pen, 1-3 old pen; G. W. Rude, 3211 W. 44th St., Cleveland, O. 4 cock, 1-2-4 hen, 4 ckl, 1-2 plt, 2 yng pen; W. H. Wood, Mapledale Ave., Cleveland, O. 5 hen; C. G. Phelps, Box 6, Rock Creek Sta., O. 3 ckl, D. F. McCarty, Box 66, Rock Creek, O. 3 plt.

R. C. WHITE ORPINGTONS—P. D. Barber, Cleveland St., Amherst, O. 1-2 hen, 1 plt.

S. C. WHITE ORPINGTONS—F. Praikshatis, 1 cock, 1-2 hen, 2 ckl, 1-5 plt; H. A. Butler, 444 Wick Ave., Youngstown, O. 2-4 cock, 4 hen, 4-5 ckl, 3 plt; J. L. Stephenson, Jacksonville, O. 3 cock, 3 hen, 3 ckl; R. M. McCray, Waterford, Pa. 5 cock; John Cochran, 5 hen; E. E. Bunnell, 102 Claremont Ave., Buffalo, N. Y. 1 ckl; R. H. Lindhorst, 2824 W. 14th St., Cleveland, O. 1 plt, 1 old pen; Grace Waltz, New Cumberland, O. 2 plt; Geo. H. Singleton, 14530 Detroit Ave., Lakewood, O. 2 old pen; Rosemont Farm, 3 old pen.

W. C. BLACK POLISH—J. Uher, 1577 E. 118th St., Cleveland, O. 1 cock, 1 hen, 1 ckl, 1 plt; Ben P. De Witt, 72 Pitney St., E. Cleveland, O. 2 cock, 2 hen; Anton Klicman, 4811 Warren Ave., S. E. Sta. D, Cleveland, O. 3 cock, 3 hen, 2 plt.

REDCAPS—H. A. Penimore, Berea, O. 1 cock, 1 hen, 1 ckl, 2 plt; Ben P. DeWitt, 2 ckl, 1 plt.

R. C. REDS—R. F. Shelley, 34 Walnut St., Geneva, O. 1 cock, 1 hen, 2 ckl, 2-3 plt, 1 yng pen, 2 old pen; F. H. Henderson, 675 E. 128th St., Cleveland, O. 2 cock, 5 yng pen, 3 old pen; H. J. Neitzel, 12431 St. Clair Ave., Cleveland, O. 3 cock, 1-5 ckl; Chas. Zeeck, 2115 Eglindale Ave., Cleveland, O. 4 cock; W. F. Zimmerman, Box 321, Willoughby, O. 5 cock; C. C. Lee, Jerry City, O. 2 hen, 4 ckl; I. A. Berger, Mt. Vernon, O. 3 hen; Carl E. Riley, 747 Fillmore Ave., Buffalo, N. Y. 4 hen; Rehburg & Brooker, 3040 W. 25th St., Cleveland, O. 5 hen; Lincolnway Farm, Gallion, O. 3 ckl, 4 yng pen; L. B. Priddy, Jerry City, O. 1-4 plt; C. N. Nichols, Portland, Ind., 5 plt; H. G. Stacey, North Ridgeville, O. 2 yng pen, 4 old pen; Wilmers Farm, R. No. 1, Stop 18, Gates Mill, O. 3 yng pen; Ira M. Crowther, Willoughby, O. 1 old pen.

S. C. REDS—H. M. Osborn, Jr., 383 E. Beau St., Washington, Pa. 1 cock, 1 yng pen; Ira M. Crowther, 2 cock, 5 hen, 1-4 ckl, 3 plt, 2 old pen; Wm. Etzensperger, Willoughby, O. 3-5 cock, 1-4 hen; Wallace Poultry Yards, 716 Hayden Ave., E. Cleveland, O. 4 cock; J. W. Jones, Columbus, O. 2 hen, 4 plt; B. M. Billings, R. D. No. 1, Elyria, O. 3 hen, 2-5 ckl, 1 old pen; F. H. Henderson, 675 E. 128th St., Cleveland, O. 3 ckl; Wm. Ulrich, Portland, Ind. 1 plt; E. C. Herring, Mt. Vernon, O. 2 plt; C. O. Dobson, R. R. No. 7, Coshocton, O. 5 plt, O. E. Miles, 802 Hartman Bldg., Columbus, O. 2 yng pen.

R. C. BARRED ROCKS—F. W. Braund, 642 E. 99th St., Cleveland, O. 1-2 ckl, 1-2 plt.

EX. BARRED ROCKS—Frank Pletz, 1121 W. 22nd St., Erie, Pa. 1 cock 2 hen, 2 plt; Rollin E. Cope, R. D. No. 2, Salem, O. 2-5 cock, 1 hen; John H. Kramer, 4168 Pearl Rd., Cleveland, O. 3 cock, 4 hen, 2 ckl, 1-4 plt; J. F. Ruth, Box 245, Amherst, O. 4 cock, 3 hen, 5 plt; H. G. Higgins, 94 Richland Ave., Athens, O. 5 hen; P. Henninger, Brooklyn Sta., R. F. D. Cleveland, O. 1-5 ckl; Oscar P. Fox, P. O. Box K, Wakeman, O. 3 ckl, 3 plt; W. H. Yunker, Ashland, O. 4 ckl; Arthur E. Cook, 520 Harvard St., Cleveland, O. 1 yng pen; Rosemont Farm, 1 old pen.

BARRED ROCKS, COCKEREL BRED—J. F. Ruth, 1 hen, 1 old pen; Rollin E. Cope, 2-4 hen; Engers Farm, Stop 18, Bedford, O. 3 hen, 1 plt; Harry Bullard, Gates Mills, O. 5 hen; John H. Kramer, 2-4 plt; Mooreland Farm, Mentor, O. 3 plt; W. H. Yunker, 5 plt; P. Henninger, 1 yng pen; A. R. Probst, Pomeroy, O. 2 yng pen.

BARRED ROCKS, PULLET BRED—Engers Farm, 1 cock, 3 ckl, 1 old pen; Harry Bullard, 2 cock, 3 yng pen; J. F. Ruth, 1 ckl, 1 yng pen; Chas. E. Hibbs, 3109 Louisiana Ave., Cleveland, O. 2 ckl; W. H. Yunker, 4 ckl; Chas. F. Lasch, 396 Station E, Cleveland, O. 5 ckl; A. R. Probst, 2 yng pen.

BUFF ROCKS—Chas. E. Ford, 443 Hazen St., Ravenna, O. 1-2 cock, 2 ckl, 1 plt; A. H. Warner & Son, R. F. D. No. 1, Box 5, Brooklyn Sta., Cleveland, O. 3-4 cock, 1-4 hen, 3-4 ckl, 3 plt, 1 yng pen, 1 old pen; E. E. Minnick, 1967 Summit St., Columbus, O. 2 hen; C. Romeyn, 1251 E. 58th St., Cleveland, O. 3 hen; E. S. Minnard, R. F. D. No. 1, Lorain, O. 1 ckl, 2 plt; E. P. May, R. R. No. 6, Shelby, O. 4-5 plt.

COLUMBIAN ROCKS—Wm. McDaniel, 2254 Ashland Rd., Cleveland, O. 1 cock, 2 hen, 1 ckl, 1 plt; Geo. N. Bailey, 317 E. Main St., Findlay, O. 2 cock, 1 hen, 2 plt.

PARTRIDGE ROCKS—Besuden Bros., Box 13, Evanston Sta., Cincinnati, O. 1-2-3 cock, 1-2-3-5 hen, 1-2-3-4-5 ckl, 1-4-5 plt, 1-2 old pen; Fred H. Meyer, 2607 Broadway, Ft. Wayne, Ind. 4 hen, 4 old pen; Chas.

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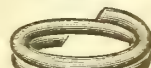
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WHITE ROCKS—P. C. Bigelow, Medina, O., 1 cock, 2 hen, 1-4 chl, 1 yng pen; Frank Boutton, 1974, W. 44th St., Cleveland, O., 2 cock, 3 pit; Carl W. Sweet, Shelby O., 2 cock, 5 hen; Chetolo Poultry Farm, Rock Creek, O., 4 cock; Pierce & Cushion, Wellington, O., 5 cock, 4 hen, 3-5 chl, 4 pit; F. W. Peters & Son, 460 E. 18th St., Erie, Pa., 1-3 hen; Ruel D. Thatcher, R. F. D. No. 1, Painesville, O., 2 chl; Miss Anna Haenptle, Milan, O., 1 pit; W. W. Snyder, 7810 Brinsmade Ave., Cleveland, O., 2 pit; J. H. Thompson, Brooklyn Sta., Route No. 2, Cleveland, O., 5 pit; Rosemont Farm, 1 old pen; L. Weber, 10104 Cumberland, Cleveland, O., 2 old pen.

WHITE JAP SILKIES—Rosemont Farm, 1 pen.

RED SUSSEX—Geneser Bros., 1 cock, 1-2 hen, 1-3-5 chl, 1-2-3 pit; Bert A. Locke, 39 Union St., Oberlin, O., 3 hen, 2-4 chl, 4-5 pit.

SPECKLED SUSSEX—Geneser Bros., 1 cock, 2-3-4-5 chl, 3-4 pit; A. C. Williams, Ravenna, O., 1-2 hen, 1 chl, 1-2-5 pit, 1-2 yng pen, 1 old pen; G. M. Smith, Oberlin, O., 3 yng pen.

R. C. R. L. WHITES—Mrs. B. Bottenus, 89 Burton Ave., Cleveland, O., 1-2 cock, 1-2 hen, 1-2-3-4 chl, 1-2-3-4 pit, 1 yng pen.

BLACK WYANDOTTES—L. V. Clark, Rock Creek, O., 1 cock, 1 hen.

BLUE WYANDOTTES—A. F. Elliott, Port Huron, Mich., 1 hen.

BUFF WYANDOTTES—G. H. Bently, 3877 Parkdale St., R. F. D., Cleveland Heights, O., 1 cock, 1 chl, 1-2 pit; F. J. Zeman, 3443 E. 52d St., Cleveland, O., 2 cock, 4-5 pit; Samuel Ledgett, Wellington, O., 1 hen, 3 chl; F. L. Johns, Plattville, Wis., 2 hen, 4 chl, 3 pit; R. G. Parks, Wellington, O., 2 chl.

COLUMBIAN WYANDOTTES—E. W. Pierce, R. F. D. No. 1, Norwalk, O., 1 cock, 1 hen, 1 chl, 1 pit.

GOLDEN WYANDOTTES—F. C. Liles, Collins, O., 1 cock, 1 hen, 1 chl, 2 pit, 1 yng pen; C. H. Mills, 360 Porter Ave., Warren, O., 2 cock, 2 hen, 2 chl, 1 pit, 2 yng pen; F. M. Enoch, R. F. D. No. 2, Geneva, O., 3-4 hen.

PARTRIDGE WYANDOTTES—Robt. Champion, 1102 E. Vine St., Mt. Vernon, O., 1 cock, 5 chl; Sheffield Farm, Glendale, O., 2-7-8 cock, 2-4-5 hen, 1-3-4-9 chl, 1-2-3-4 pit, 1-3 yng pen, 1-5 old pen; Mrs. Donna Hanley, Mechanicsburg, O., 3 cock, 9 hen, 7 chl, 8-9 pit, 2 yng pen, 3 old pen; A. F. Elliott, Port Huron, Mich., 4-9-10 cock, 3-7 hen, 10 chl, 7 pit, 4 old pen; Paul D. Cahow, Reading, Mich., 5 cock, 8 hen; Phil. Rice, 620 E. Bowman St., Wooster, O., 6 cock, 6 hen, 2 old pen; Mrs. L. J. Goodwin, Bucyrus, O., 1-10 hen, 2 chl; Jas. L. Coulter, New Wilmington, Pa., 6 chl, 6 pit; H. A. Briggs, Rocky River, O., 8 chl, 5-10 pit.

SIL. LACED WYANDOTTES—F. A. Brooks, Rock Creek, O., 1 cock, 3 hen; Lloyd V. Clark, 2 cock, 1 hen; Ewing & Romich, Creston, O., 3 cock, 2 hen, 2 chl, 1 yng pen; Jos. Winglewitch, R. F. D. No. 2, Wooster, O., 4 hen, 3 chl; Jno. A. Flick, Box 95, Bedford, O., 1 chl, 3 pit; C. S. Jackson, Richmond St., Painesville, O., 4 chl, 5 pit; J. F. McHugh, Route 1, Marietta, O., 1-2-4 pit.

WHITE WYANDOTTES—Stoll & Kopfstein, 10221 Yale Ave., Cleveland, O., 1-4 cock, 2 hen, 2 pit; Rosemont Farm, 2 cock, 4 chl, 1 pit, 1 yng pen; N. P. Nichols, Medina, O., 3 cock, 3 chl, 1 old pen; W. M. Snowden, 1023 Edgewood Ave., East Liverpool, O., 5 cock; L. C. & C. W. Sixt, 1-3 hen, 1 chl, 4 pit, 2 yng pen, 2 old pen; J. J. Bennett, Lisbon, O., 4 hen, 5 chl; Leon Brockway, Rome, O., 5 hen; F. P. Stone, Chardon, O., 2 chl, 5 pit; Thos. Hubbard, 1977 W. 89th St., Cleveland, O., 3 pit.

COLORADO MUSCOVY DUCKS—Chas. McClave, 416 Park Ave., New London, O., 1 cock, 1 hen, 1 chl.

WHITE MUSCOVY DUCKS—Chas. McClave, 1 hen.

WHITE PEKIN DUCKS—E. H. Pifer, Rock Creek, O., 1 cock; Mooreland Farm, Mentor, O., 2 cock, 1 hen, 2 chl, 2 pit; Clarence Rickard, 2202 Harvard Ave., Brooklyn Sta., Cleveland, O., 3 cock; Engers Farm, Stop 18, Bedford, O., 1 chl, 1 pit.

BROWN CHINESE GEESE—Chas. McClave, 1 cock, 1 hen.

WHITE CHINESE GEESE—Chas. McClave, 1 cock, 1 hen.

TOULOUSE GEESE—Mooreland Farms, 1-2 hen.

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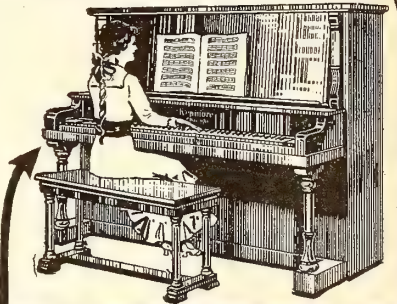
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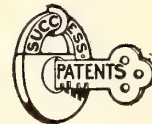
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WINNINGS of A. P. J. ADVERTISERS

Under this heading will be given each month, during the show season, the winnings made by our advertisers, at the various shows, as reported by them.

D. F. Palmer & Son, Yorkville, Ill., report the following winnings on their Barred Rocks at the Illinois State Show, De Kalb, Ill., January, 1916: 1-2 plt, bred cock, 1-2 ckl, bred plt, 1 exh. hen, 1 plt, bred pen, 4 exh. cock, 4 exh. ckl, 3-5 exh. plt, 3-4 ckl, bred hen, 3 ckl, bred pen. Special for best display plt, bred males, ckl, bred females, best colored plt, bred male, best shaped ckl, bred female. Champion ckl, bred female and plt, bred male. Best display.

Dr. J. H. Prudhomme, Thurmont, Md., reports the following winnings at Chicago, December, 1915: 1 Partridge Orpington cock, 5 Speckled Sussex cock. At Madison Square Garden, December, 1915: 3 Golden Campine hen, 4 Golden Campine plt.

C. H. Leitner, R. F. D. No. 4, Elgin, Ill., reports the following winnings on his S. C. Buff Leghorns at McHenry, Ill., January, 1916: 1 cock, 2-3 hen, 1-2 ckl, 3 plt, 2-4 pen; two silver cups. At Batavia, Ill., December, 1915: 1 cock, 2 hen, 1 ckl, 1 plt, Judge, Hackett.

Payne Bros., Portland, Conn., report the following winnings on their R. C. R. I. Reds at Boston, Mass., January, 1916: 2-4 cock, 2-6 hen, 2-4-5 ckl, 6 plt, 1-3 pen; special for best pen and best display.

Sunswick Poultry Farm, Rufus Delafield, Prop., South Plainfield, N. J., report the following winnings on their Buff Orpingtons at Madison Square Garden, December 31, 1915, to January 5, 1916: 1-5 cock, 1 ckl, 2 pen. At Syracuse, September, 1915: Nine 1sts and 2nds. At Hagerstown, Md., October 12, 1916: Nine 1sts and 2nds. At Buffalo, N. Y., November 23, 1915: Eight 1sts and 2nds; specials.

Dr. L. E. Heasley, Holland, Mich., reports the following winnings on his Buff Leghorns at the Chicago Coliseum Show, December, 1915: 1-2 cock, 1-5 hen, 1-2-4 ckl, 2-4 plt, 1-2 yng. pen, 2-3-4 old pen. Two special cups on color, shape special on male. At World's Fair, San Francisco, Cal., 2 cock, 4 hen, 7 ckl.

E. B. Thompson, Amenia, N. Y., reports the following winnings on his Barred Plymouth Rocks at Madison Square Garden, December 31, 1915, to January 5, 1916: 1-2-3-4-5 cock, 2-3-4 hen, 1-2-3-4-5 ckl, 1-2-3-4-5 plt, 1-2-3-4-5 exh. pen. President's silver cup for best display. Sweepstake special for champion male and female. Special for best shaped male and female, best colored male and female, best cock, hen, plt, 3 best ckl. Diploma for best ckl.

John A. Gamewell, Little Silver, N. J., reports the following winnings on his Golden Penciled Hamburgs at Madison Square Garden, December 21, 1915, to January 5, 1916: 1 cock, 2 hen, 1-2-3-4-5 ckl, 1-2-3-4-5 plt, 1 pen. Silver cup best display. Special for best Hamburg in show. Special for two best ckl and plts, best cock, hen, ckl, plt. Color and shape specials. Judge, W. G. Minich. At Boston Show, January, 1916: 2 cock, 1 hen, 1-2 ckl, 1 plt, 1 pen.

H. M. Woods, Carlinville, Ill., reports the following winnings on his S. C. Buff Orpingtons at Illinois State Fair, January, 1916: 5 cock, 4 hen, 4-5 ckl, 4-5 plt, 5 yng. pen. At Green Co. Fair: 1-3 cock, 1 hen, 1-3 plt, 1 pen. At Carlinville Fair: 1-2 cock, 1-2-3 hen, 1-2 ckl, 1-2-3 plt, 1 yng. pen, 1 old pen. At Quincy, Ill., November, 1915: 4-5 cock, 3 old pen. At Carlinville Poultry Show, December 7-10, 1915: 1 cock, 1 hen, 1-2-3 ckl, 2-3-4 plt, 1 pen. Special best pen in English class and best pen in show. Judge, R. W. Sturtevant.

M. R. Jacobus, Ridgefield, N. J., reports the following winnings on his Campines at Madison Square Garden, December 31, 1915, to January 5, 1916: Six 1sts, five 2nds, three thirds, two 4ths. Seven specials. On Silver Campines at Chicago Coliseum Show, December, 1915: 1-5 cock, 1-2 hen, 2 plt, 1 yng. pen. Specials for best pen, best colored male, best shaped male and female. Nine premiums on Golden Campines.

F. E. Parker, Chicago Heights, Ill., reports the following winnings on his White Orpingtons at the Kankakee, Ill., Show: 3 cock, 1 ckl, 3 plt, 2 pen.

Mrs. Tella E. Watts, Square Deal Poultry Farm, West Concord, Minn., reports the following winnings on her S. C. Minorcas at

the Chicago Coliseum Show, December, 1915: 5 cock, 4 hen, 3 ckl, 3 pen.

The Martling Hennerly, Ridgefield, N. J., report the following winnings on their Silver Campines at New York State Fair, Syracuse, N. Y., September 13-18, 1915: 1-4 cock, 1-2-4 ckl, 1-4 plt, 1-3-4 yng. pen, 2 old pen. First display and seven specials. Golden Campines—1 cock, 4 hen, 1-3 ckl, 1-3 plt, 2 yng. pen, 2 old pen. First display and four specials. On Silver Campines at Brooklyn, N. Y. City Show, November 16-20, 1915: 1 cock, 1 hen, 1 ckl, 4 plt, 1 pen. First display. On Silver Campines at the World's Fair, San Francisco, Cal., November, 1915: 4-8 cock, 2-4-5-7 ckl, 1-2-5 plt, 3 pen. Best display. Golden Campines—3 cock, 4 plt, 2 pen. On Silver Campines at Palace Show, N. Y. City, December, 1915: 3 cock, 2-3 ckl, 3 plt, 1 pen. Second display. Golden Campines—1 cock, 3 hen, 3 ckl, 1 pen. First display. On Silver Campines at Chicago Coliseum Show, December, 1915: 2-3-4 cock, 1-3-4 ckl, 5 plt, 2 yng. pen, 3 old pen. Second display. On Silver Campines at Glendale, Cal., 1-3 cock, 1-3 hen, 1-2-3 ckl, 1-2 plt, 1st display. On Golden Campines—1 ckl, 1 plt. On Silver Campines at Madison Square Garden, December 31, 1915, to January 5, 1916: 2-3-5 cock, 5 hen, 1-2-3-5 ckl, 2 plt, 1-2-4 exh. pen. Best display. All shape specials and four other specials. Golden Campines—1 cock. On Silver Campines at Los Angeles Show, Cal., January 5-11, 1916: 1 cock, 1-3-5 hen, 1-2-3-4 ckl, 1-2-3 plt, 1-2 exh. pen, 1st display, all specials and cups. Golden Campines—2 cock, 1 ckl, 1 plt, 1 pen, 1st display, some specials, and all cups. On Silver Campines at Dover, N. J., Show, January 10, 1916: 1 cock, 1 ckl, 1 plt, 1 pen, 1st display.

The Morris Poultry Farm, Lebanon, O., report the following winnings on their S. C. White Orpingtons at Madison Square Garden, December 31, 1915, to January 5, 1916: 1 cock, 1-4 hen, 2 ckl, 1-4 plt, 2 pen. Judge, Richard Oke.

Marshall & Marshall, Niagara Falls, Can., report the following winnings on their "Niagradot" White Wyandottes at St. Catharines, December 29, 1915, to January 1, 1916: 2-3 hen, 2-4 plt, 2 pen. Special for best display. Judge, J. H. Minshall.

Marshall & Marshall, Niagara Falls, Can., report the following winnings on their White Wyandottes at Buffalo, November, 1915: 8 hen, 4 yng. pen, 2 old pen. Judge, J. W. Andrews.

Buckeye Poultry Yards, 220 W. Main, Eaton, O., report the following winnings on their Buckeyes at the Chicago Coliseum Show, December, 1915: 2-6 cock, 1 hen. Judge, H. A. Pickett. At Madison Square Garden, December 31, 1915, to January 5, 1916: 1 cock, 1 hen. Specials for best shape and color male and female. Judge, Geo. W. Lacey. At Boston, Mass., January, 1916: 1 cock, 1 hen. Specials for best shape and color male and female. Judge, Eugene Sites.

Mountville Farms, Mountville, Va., report the following winnings on their White Cornish fowl at New York Palace Show, December 7-11, 1915: 1-2-3-4 cock, 1-3-4-5 hen, 1-2-3 ckl, 1-2-3-4 plt, 1-2 pen. Specials for best display White Cornish fowl. Best shaped and best colored male and female. Palace Show and Long Distance special. Judge, John W. Ward, Jr. At Madison Square Garden, December 31, 1915, to January 5, 1916: 1 cock, 1 hen, 3 ckl, 1 plt. Judge, Drevensstedt.

L. J. Demberger, Box 89, Stewartsville, Ind., reports the following winnings on his White Wyandottes at Kentucky State Fair, 1915: 1-3-5 ckl, 1-2 plt, 2 pen. At Chicago Coliseum Show, December, 1915: 3 cock, 1 hen, 1 plt, 1 yng. pen.

Frank C. Cole, Van Wert, O., reports the following winnings on his Buff Plymouth Rocks at Canton, O., December 28, 1915, to January 2, 1916: 1-2 cock, 4-5 hen, 1-2-3 ckl, 1-3 plt, 1 pen. Special central district cup for best cock, hen, ckl, plt. Gold watch for best display. Judge, Johnston, Springfield, Ill.

E. G. Curtis, Atsion, N. J., reports the following winnings on his White Runners at Madison Square Garden, December 31, 1915, to January 5, 1916: 1-3 cock, 1-2 hen, 1-2 ckl, 1-2 plt. All specials on White Runners. Judge, John C. Kriner.

J. H. Powers, 1411 E. 47th St., Chicago, Ill., reports the following winnings on his White Wyandottes at the Chicago Coliseum Show, December 10-15, 1915: 5 yng. pen, 3 old pen.

O. R. Eddy, Oconomowoc, Wis., reports the following winnings on his Columbian Wyandottes at Oconomowoc, Wis., December, 1915: 1 cock, 1-2 hen, 1-3 ckl, 1-2 plt, 1 pen. Special silver cup for best pen. Judge, Geo. H. Northrup.

(Continued on Page 376)



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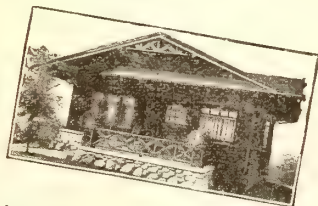
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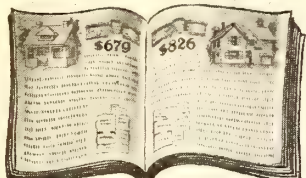
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etc.



No. 185
Seven Rooms, Bath,
Den, etc. **\$931**



\$201 No. 46
Barn, Large, Light.



FREE! BOOK OF 100 HARRIS HOMES, BARN, ETC.

This book shows our House, Barn, Garage and Apartment Designs in beautiful halftone engravings. Also shows floor plans, material lists, complete information, and details of the HARRIS WAY. Mailed free anywhere. Send coupon on opposite page.

Blue Prints and Specifications

We will furnish complete Building Blue Prints, Specifications and Material List to build any design on this page for \$1.00.

\$229 Buys a Whole Carload 15,000 Feet of Lumber

This year we are offering a carload of lumber at the lowest price we have ever made—right in the face of a swiftly advancing lumber market. If you are figuring on doing any building at all during 1916, do not hesitate to send us your order right away. Prices are going sky high, and will probably stay there.

At the above price we will furnish 15,000 feet of brand new, good lumber, guaranteed grades. Our offer includes timbers, dimension boards, siding, flooring, ceiling and patent lath. Shipment DIRECT TO YOU from our new mammoth mill and manufacturing plant. We are able to make this tremendous offer only by eliminating all in-between profits, eliminating re-loading and re-shipping charges, sending you a full carload direct of the kind of lumber you want, as in our \$229.00 Lumber Bargain Offer. YOU get the benefit of all the savings in freight and handling charges.

Send coupon in the right hand corner of opposite page today and ask for our \$229.00 Offer.

BUILD YOUR HOME THE HARRIS WAY SENSIBLY CUT-TO-FIT

The most economical and up-to-date way to build your new home is THE HARRIS WAY—Sensibly Cut-to-Fit—the best of all cut-to-fit methods. We send you all materials Sensibly cut-to-fit, and furnish you our Blue Print Plans and Specifications with Material List, so that you can build your home at a saving of one-third to one-half over building the old-fashioned way. Such well-known poultrymen as C. V. Keeler, John Memkin and others have built their homes the HARRIS WAY, and realized great savings together with freedom from trouble, care and worry.

First, we give you the materials SENSIBLY CUT-TO-FIT the HARRIS WAY, at prices that absolutely save you hundreds of dollars. Then by our wonderfully efficient building plan, which cost us thousands of dollars to perfect, you save tremendous amounts in building expense and freedom from waste and other losses. The HARRIS WAY is the result of twenty-four years of expert building experience and study.

Send the coupon for your copy of our free Book of Plans.

Standard Iron Pipe

3c 

This pipe is coated with black asphaltum rust-preventer before shipment, so that you get your material in good condition. 1-in black pipe shown here for 3c per foot. You can order direct from this ad by order No. 6-AF-5. Do not fail to send for our big free Plumbing and Heating Book.

Closet Outfit, \$9.98



Complete

We furnish here a great bargain special to poultrymen. This elegant low tank closet outfit, guaranteed "A" grade material, nickel-

plated trimmings. Splendid value. Order No. 5-AF-902. You can easily install your own outfit with the aid of our big free Plumbing and Heating Book.

Save Half On Rugs

We buy the finest rugs at auctions direct from the manufacturer. All grades, patterns and colors. See them in actual colors in our Furniture and Rug Book. Good 9x12 rug, at \$3.38 36-inch Axminsters..... .87



Saved \$510.00

READ THIS LETTER

Greensburg, Pa.

Chicago House Wrecking Co.

As to quantity and quality of material furnished me for my home (No. 131), I am highly pleased.

I have made a saving of \$510 and have had sufficient material for the smallest detail. I could not have duplicated this design for twice the amount paid your firm. Also might state further that Plans and working sheets for this design worked out to the letter.

I am always your friend for your fair and courteous treatment.

Yours respectfully,

H. A. HENRY, P. O. Box 516.

Harris Vacuum Sweeper

\$3.79

Poultrywomen! This Harris Vacuum Sweeper takes the drudgery out of house work. It is a combined suction cleaner and sweeper; the kind that sells everywhere at \$10.00. Made of pickled and oxidized metal parts. Ball-bearing wheels. You can order this direct from this ad. Shipping weight 14 pounds. Lot No. 19-AF-4000. Many big money-savers for you in our Furniture and Household Goods Catalog.



Tank Heater, \$4.39

Cast Iron, Self-Sinking

Made of cast iron in one piece, 12 in. wide, 2 ft. high. Needs no rods to hold it down. Can be used in any kind of tank. Equipped with grates and ash tray, 2 ft. of smoke stack with damper and hood. Burns coals, wood or coal. Order No. 4-AF-1985.



100 Pounds of Nails

\$1.90 Buys Keg



Handy assortment. Come in 100-lb. kegs, from 3 to 40-penny nails mixed. Only one of many bargains in our building material catalog. Order No. 2-AF-4055. 100 pounds of mixed nails. \$1.90

Galv. Storage Tank

\$4.55

All kinds of storage tanks in all sizes. This tank is made of 20 gauge galvanized steel. Strongly riveted seams. Capacity 3 1/2 barrels. Order No. AF-1801. Same tank, capacity 9 barrels. \$6.95.



Galvanized Hog Trough

\$1.25



These Galvanized Hog Troughs are one of our greatest bargains for the farmers. 5 ft. long by 1 ft. wide, 6 in. deep. Made of heavy galvanized iron. You can order direct from this ad by No. 8-AF-305.

Our Big Paint Values 50c Gallon

In Ready-Mixed Paints, we absolutely have no competition for values and low prices. Get our free Paint Book and see the colors yourself. We guarantee every drop. We still keep our paint prices down so our customers may benefit by our Price Wrecking.



Chicago House Wrecking Co.
Thirty-Fifth and Iron Sts. CHICAGO, ILLINOIS

Save 1/3 to 1/2 in Money

Greatest Roofing Values of the Century

**Galvanized
Freight
Paid
Prices**

Prices below are F. O. B. Chicago.

Painted sheets, \$1.34 per sq. of 100 sq. feet. Order No. 13-AF-110.

Galvanized, Sq. \$2.22. Order No. 13-AF-110.

Write for Freight-Paid Prices.

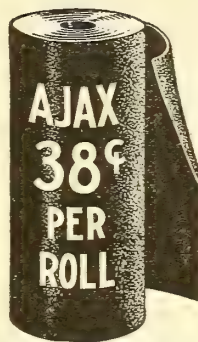
Thousands of Poultrymen have saved big money by buying our Roofing and other Building Materials for their plants from us. They know our Reliability and our Price-Wrecking ability.

We absolutely have no competition in roofing values. Our stocks are shipped from our own big manufacturing plant right in Chicago, and our ten million-dollar capital backs our guarantee of a square deal and honest merchandise.

Our Ajax Roofing is a high-grade covering, suitable for your house, barn or poultry sheds.

On Galvanized, we save you almost 50 per cent. We can furnish "V" crimped, corrugated, standing seam, beaded ceiling, and all kinds of metal roofing for every purpose.

You can order these big snaps directly from this ad with perfect confidence, or send for our new Roofing Price-Wrecker. Tell us your needs, how much roofing you want, when you expect to build, etc., and we will quote you freight-paid prices on any of these materials. All prices quoted here are F. O. B. Chicago, not freight prepaid.



Ajax 1/2-ply, 38¢ per roll. 1-ply, 75¢; 2-ply, 86¢; 3-ply, 96¢, all complete with nails and cement. Order No. 7-AF-310.

For other big roofing bargains, get our new free Roofing Book.

Tar Paper 25c per Roll

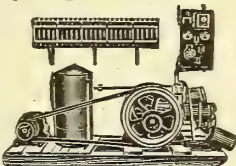
A special lot of 2-ply Tarred felt. Rolls were subjected to pressure in our warehouse and are slightly jammed at the ends, otherwise good. You can order direct from this ad by Order No. 7-AF-113. 108 sq. ft. to roll, 25c.

Rumely Light Plants

\$265

Buys 75-light

In our purchase of Rumely merchandise we secured a large number of complete Electric Light Plants. They are simple, safe, economical. Anyone can run them. Built with the famous Rumely-Falk engine, standard Willard storage batteries. Can be used for lighting or general power purposes. This 75-light plant, Order No. 36-AF-87, \$265. For full information, get our Machinery Catalog.



Rumely Separators

\$29.50
For a 500-Pound

Only \$29.50 for a genuine Rumely 500-lb. Cream Separator, equipped with the new patent distributing blades. Skims a gallon per minute, good for twenty years, quiet, smooth running, simple, strong, interchangeable parts. Skims closely, thick or thin cream as desired. No loss of butter fat. Guaranteed perfect.

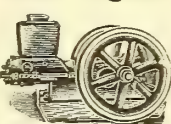


Rumely - Olds Engines

\$31.00

Buys 1 3/4 H. P.

Here are positively the greatest engine values ever offered. These famous Rumely-Olds Gasoline Engines for a mere fraction of their real value. We have all sizes from 1 1/2 to 65 H. P., Stationary, Portable, Direct Connected to Pumps, Hoisting and Saw Outfits. All brand new, guaranteed perfect, for quick shipment. Get amazingly low prices, full description, etc., in Machinery Catalog.

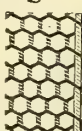


Poultry Netting

62c Buys 150 Feet

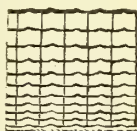
This Poultry Netting is made of galvanized steel, strictly new, clean stock, 150 lineal feet to the bale.

You can order direct from this ad. For other big values, get our free Wire and Fence Book.



Poultry Fence, 34c Rod

This 48-inch Combination Farm and Poultry Fence is constructed of 15 line wires, spaced closely together at bottom, so small chicks cannot go through. Price per rod, 48 in. high, Order No. 2-AF-19, 34c. For other big fence, wire and nails values, get our free Wire and Fence Book, by sending the coupon in corner.



Steel Posts

14c Each

Tubular Steel, complete with three wire clamps. Diam. 2 in., heights 4 to 10 ft. Coated with rust preventing asphaltum. Price, for 4-ft. post, 14c each. Order No. 2-AF-1478.



Big Snaps From Our Poultry Supply Book

Galvanized Poultry Troughs, 30c

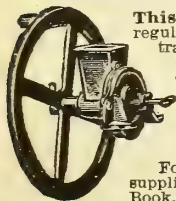
Made of heavy galvanized iron and come in pairs riveted together. Each trough is 36 in. long, 3 1/2 in. wide and 2 1/2 in. deep. Painted with black asphaltum paint before shipment. Weight per pair, 10 pounds. Order No. 8-AF-324. Price, each pair, 30c; 6 pairs, \$1.50; 12 pairs, \$2.75.



Banner Bone Mill, \$1.97

This Banner Bone Mill is a regular \$4.00 value. It is made extra strong, and will grind bones, oyster shells, small gravel, crockery, etc. Is equipped with a crusher and burrs, which can be adjusted to grind fine or coarse. Order No. 8-AF-8021. Bone Mill, \$1.97.

For other bargains in poultry supplies, get our Poultry Supply Book, by sending coupon in corner.



Famous Little Giants; Incubator and Brooder

They are small unit types, and consequently bring a large percentage of success. Made of metal except for the heavy glass top. Incubator is equipped with double-wafer thermostat warm air heating system. Brooder is also all metal except the flannel cover. Equipped with hot water heating system. This is an ideal combination for use with prize eggs or on a small farm for regular work. Special to poultrymen this year at the bargain price of \$6.95 for both. Both machines are 60-egg capacity. You can order them direct from this ad by Order No. 8-AF-298.

For the Little Giant Incubator separately, \$4.80. Order No. 8-AF-299.

For the Little Giant Brooder separately, \$2.50. Order No. 8-AF-297.



\$6.95

Buys Both



60-Egg



**THESE BOOKS FREE
MAIL COUPON NOW!**

C. H. W. Co., Dept. AF-8.

Send me free books marked (X).

- | | |
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| <input type="checkbox"/> Roofing | <input type="checkbox"/> Book of Plans |
| <input type="checkbox"/> Fencing | <input type="checkbox"/> Pl'b'g and Heating |
| <input type="checkbox"/> Paint | <input type="checkbox"/> Lumber Price List |
| <input type="checkbox"/> Machinery | <input type="checkbox"/> \$229 Lumber Offer |
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| <input type="checkbox"/> Poultry Supplies | |

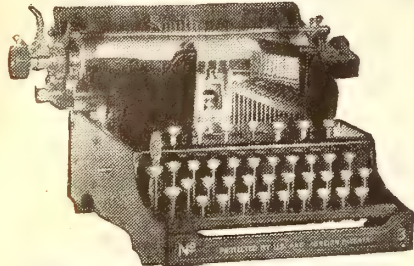
Information on

Name

Address

Chicago House Wrecking Co.
Thirty-Fifth and Iron Sts. CHICAGO, ILLINOIS

TYPEWRITER SENSATION



GREATEST TYPEWRITER BARGAIN EVER OFFERED

Only \$2.00 a month until the bargain price of \$29.60 is paid and the machine is yours. This startling offer has astounded the typewriter world. Absolutely the greatest typewriter bargain ever offered. For a short time only I offer a limited number of these standard,

VISIBLE WRITING MODEL No. 3

typewriters at this exceptional price. Perfect machines, not damaged or shop worn. Complete outfit, cover, tools, instructions, etc. Machine of standard size but light weight and portable, keyboard of standard arrangement writing the full 84 characters, two color ribbon, tabulator, back spacer, writes on ruled lines; in fact every late style feature and modern operating convenience, at less than a third of the regular price, and each letter visible as printed and all previous writing completely visible at all times.

FREE TRIAL You Take NO RISK

My brand new Model No. 3 offer for but \$29.60—and only \$2 per month.

I won't let you buy this typewriter before you see it. I want you to be absolutely convinced that this is the greatest typewriter bargain ever offered. If you have the slightest use for a typewriter you should accept this amazing offer. You cannot equal this wonderful value anywhere. When the typewriter arrives deposit with the express agent \$5.60 and take the machine for five days' trial. If you are convinced that it is the best typewriter you ever saw, keep it and send me \$2.00 a month until my bargain price is paid. If you don't want it, return to the express agent, receive your \$5.60 and he returns the machine to me. I will pay the return express charges. This machine is guaranteed just as if you paid \$100.00 for it.

ONLY 100 TYPEWRITERS At This Price

There is no time to lose. Fill in the coupon and mail it today—sure. The typewriter will be shipped promptly. There is no red tape—no solicitors—no collectors—no chattel mortgage. It is simply understood that I retain title to the machine until the full \$29.60 is paid. You cannot lose. It is the greatest typewriter opportunity you will ever have.

TEAR OUT—MAIL TODAY

H. A. SMITH, 902—231 N. Fifth Ave., Chicago, Ill.
Ship me your Model No. 3, F.O.B. Chicago, as described in this advertisement. I will pay you the \$24.00 balance of the SPECIAL \$29.60 purchase price at the rate of \$2.00 a month. The title to remain in you until fully paid for. It is understood that I have five days in which to examine and try the typewriter. If I choose not to keep it I will carefully repack it and return it to the express agent. It is understood that you give the standard guarantee for one year.

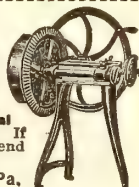
NAME.....

ADDRESS.....

\$5 NO MONEY IN ADVANCE

The "Dandy" is the easiest operated, best built, fastest cutting green bone cutter made. Sold on 15 days' free trial with a broad guarantee. If it suits keep it, if not, send it back. Free catalog.

Stratton Mfg Co., Box 17, Erie, Pa.



INVEST IN AMERICA'S MOST PROFITABLE INDUSTRY

SAFETY WITH LARGE PROFITS ASSURED FOR FULL PARTICULARS ADDRESS

UNION STOCK YARDS POULTRY FARM
139 NO. CLARK STREET CHICAGO, ILLINOIS

CHARCOAL for POULTRY

Extra Fine, Fine, Medium and Coarse, \$1.25 per hundred at Ironton, Ohio. Cash with order. Samples on request.
JOHN SILLIMAN, Box 196-C, Ironton, Ohio

WINNINGS OF AMERICAN POULTRY JOURNAL ADVERTISERS.

(Continued from Page 373)

Payne Bros., Portland, Conn., report the following winning on their R. C. R. I. Reds at Boston, Mass., January, 1916: 2-4 cock, 2-6 hen, 2-4-5 ckl, 6 pit, 1-3 pen. Special for best display and best pen. Judge, I. W. Bean.

Henry Gassmann, 502 S. Fair St., Olney, Ill., reports the following winnings on his S. C. White Orpingtons at Olney, Ill., December 6-11, 1915: 1-3 cock, 1-2 hen, 1-2-3 pit, 1-2 pen. Judge, D. E. Hale. At Mt. Carmel, Ill., December 13-17, 1915: 1 cock, 1-2-3-5 hen, 2 ckl, 3-4-5 pit, 2-3 pen. Judge, Geo. H. Northrup.

M. S. Barker, Thorntown, Ind., reports the following winnings on his Black Langshans at National Club Show, Indianapolis, Ind., January 10-15, 1916: 2 cock, 1-3 hen, 1-5 ckl, 1 pit, 1 yng. pen, 1 old pen. Special club cup best display and seven other cups.

B. H. Scranton, Rising Sun, Ind., reports the following winnings on his S. C. R. I. Reds at Madison Square Garden, December 31, 1915, to January 5, 1916: 4 hen, 1 ckl, 2-4 pit, 1-3 pen. Special best display, best Red. Color special on male. Judge, Geo. Tracey.

C. A. Keefer, Muskegon, Mich., reports the following winnings on his Buff Orpingtons at Grand Rapids, Mich., January 11-14, 1916: 1-5 cock, 1-2 ckl. Special champion Buff Orpington cock, best cock and ckl. American Poultry Association special for best cock and ckl in English class. On Speckled Sussex—1-2 hen, 1 ckl, 1-2 pit. Special best ckl. Judges, Tucker and Bowner.

C. Guy Myers, Siddonsburg, Pa., reports the following winnings on his Barred Rocks at Gettysburg, Pa., December 7-11, 1915: 1-2-4 cock, 1-2-3-4 hen, 1-2-3 ckl, 1-2-3 pit, 1-2 pen. Special cup for best ten birds in show and best bird in American class. At Philadelphia, Pa., December 14-18, 1915: 2 cock, 1 ckl, 2 pen.

Old Forge Poultry Farm, Spring Grove, Pa., report the following winnings on their S. C. Buff Orpingtons at Philadelphia, December 14-18, 1915: 4 cock, 1 hen, 2 ckl, 1 pit, 2 pen. Special best hen and pit. Judge, Harry Wolfseiffer.

W. W. Kulp, Box 70, Pottstown, Pa., reports the following winnings on his R. C. Brown Leghorns at Philadelphia, December 15, 1915: 1-2 cock, 1-2-3 hen, 1-2 ckl, 1-2-3 pit. Second S. C. Brown Leghorn hen. Specials two silver cups. Judge, J. B. Hoffman. On R. C. Brown Leghorns at Madison Square Garden, December 31, 1915, to January 5, 1916: 2-3 cock, 2-3 hen, 1-2 pit. Judge, J. H. Drevensstedt.

Mrs. Hattie D. Reed, Chestnut Terrace, Marcellus, N. Y., reports the following winnings on her Buttercups at the Palace Show, December, 1915: 5 ckl, 1 pit. Special best female, and female color special. Judge, W. M. Anderson. At Buffalo, N. Y., November, 1915: 2 hen, 2-4 ckl, 1-5 pit, 2 pen. Color special. Judge, W. M. Anderson. At Syracuse State Fair, September, 1915: 2 hen, 1-5 ckl, 2-4 pit. Judge, A. O. Schilling.

Mrs. L. R. Buell, Lake Geneva, Wis., reports the following winnings on her White Rocks at Lake Geneva Show, 1916: 2 cock, 1-2-4 hen, 2-3 ckl, 1-3-4 pit, 1-3 pen. Judge, Keller.

Carl J. Jensen, North Ave., Waukegan, Ill., reports the following winnings on his S. C. White Leghorns at Waukegan, Ill., December 1-6, 1915: 2 cock, 1-2-3-4 ckl, 1-2-4 pit. Special for best display. Judge, C. V. Keeler.

McCammon & Myers, Gettysburg, Pa., report the following winnings at Buffalo on White Sikies: 4 firsts. At Madison Square Garden: 4 firsts. At Boston: 2 seconds, 1 third, 1 fourth. At Philadelphia: 4 firsts. On White Crested Black Polish at Philadelphia: 4 firsts. At Altoona: 5 cock, 3 pen. At Elizabethtown: 4 firsts.

Geo. A. Kersten, Washburn Park, Minneapolis, Minn., reports the following winnings on his Columbian Wyandottes at Minneapolis, Minn., January 6-12, 1916: 1-2-3 cock, 1-2-3 hen, 1-2-3-4-5 ckl, 1-2-3-4-5 pit. All shape and color specials. Judge, Geo. D. Holden.

Ewing & Romich, Creston, O., report the following winnings on their Silver Laced Wyandottes at Cleveland Show, 1916: 3 cock, 2 hen, 2 ckl, 1 pen. Judge, A. H. Emch.

C. H. Mills, 306 Porter Ave., Warren, O., reports the following winnings on his R. C. Anconas at the Crystal Palace Show, December, 1915: 1 ckl, 3-4 pit. At Madison Square Garden, December 31, 1915, to January 5, 1916: 3 hen. On Golden Wyandottes at Cleveland, O., 1916: 2 cock, 2 hen, 2 ckl, 1 pit, 2 pen.

Tiffin Poultry Farms and Hatchery, Tiffin, O., report the following winnings on their Sicilian Buttercups at Cleveland Poultry Breeders' Association, 1916: 2 cock, 1-2 hen, 1-2 ckl, 1-2 pit, 2 yng. pen, 1 old pen. Special best comb, shaped and best colored pullet. Judge, Minich.

The Rockwood Farm, Main Market Rd., Norwalk, O., report the following winnings on their Partridge Plymouth Rocks at the World's Fair, San Francisco, Cal., November, 1915: 1-5 cock, 3-7 hen, 2-7 pen.

M. S. Barker, Thorntown, Ind., reports the following winnings on his Black Langshans at Madison Square Garden, December 31, 1915, to January 5, 1916: 1-2-5 cock, 1-3-4-5 hen, 1-2-4 ckl, 2-4 pit, 1-2 pen. Special for best display. Judge, H. P. Schwab.

Bower-Knoll Farm, Olney, Ill., report the following winnings on their S. C. Anconas at Olney, Ill., December 7-11, 1915: 1-2-3 cock, 1-2-3 hen, 1-2-3 ckl, 1-2-3 pit, 1-2 pen. Special cup for best female, 3 cups for best pen Mediterranean class, cup for best bird. Judge, D. E. Hale.

William Bird Farm, Berea, O., report the following winning on their Buttercups at the World's Fair, San Francisco, Cal., November, 1915: 3 hen.

Geo. H. Schoenhard, Freeport, Ill., reports the following winnings on his S. C. R. I. Reds at De Kalb State Show, 1916: 2 hen, 5 pit, 2-4 pen.

E. L. Bemis, Fond du Lac, Wis., reports the following winnings on his Buff Orpingtons at Fond du Lac, Wis.: 1-2 cock, 1-2-3 hen, 1-2-3 ckl, 1-2-3-4 pit, 1-2 pen. Special 1st in sweepstakes.

Mrs. Bertha Bottenus, 89 Burton Ave., Cleveland, O., reports the following winnings on her S. C. R. I. Whites at Cleveland, O., January 3-8, 1916: 1-2 cock, 1-2 hen, 1 ckl, 1-2-3-4 pit, 1 pen. On R. C. R. I. Whites—1-2-3 ckl. Special silver cup best display, best cock, hen, ckl, pit, pen. On R. C. R. I. Whites at Canton, O., December 27, 1915, to January 1, 1916: 2 cock, 2-3 hen, 2-3-4 ckl, 4-5 pit, 2-3 pen. On S. C. R. I. Whites—1 ckl. Special silver cup best display, trophy for biggest display, club special best ckl.

Mrs. E. B. Martin, Lock Box 6, Downey, Cal., reports the following winnings on her S. C. White Leghorns at the World's Fair, San Francisco, Cal., November, 1915: 1-2-4-7 cock, 1-2-4 hen, 1-2-3-4 ckl, 1-3 pit, 1-3 pen. Specials champion White Leghorn male and female, American Poultry Association medal for best S. C. White Leghorn ckl, all ribbons offered by National S. C. White Leghorn club, all badges offered by Southern S. C. White Leghorn Association. Judge, Irving F. Rice, Cortland, N. Y.

E. L. Bemis, Fond du Lac, Wis., reports the following winnings on his Buff Orpingtons at the late Milwaukee Show: 1 cock, 1-2 ckl, 1 hen, 2 pit.

Dr. N. W. Sanborn, 924 South Road, Holden, Mass., reports the following winnings on his Buff Wyandottes at the Palace Show, New York, December 7-11, 1915: 1-6 pen. At Madison Square Garden, December 31, 1915, to January 5, 1916: 3 pen.

A. G. Spahr, Xenia, Ohio, reports the following winnings on his White Plymouth Rocks at Hamilton, Ohio, 2-3-4 cock, 1-3-5 hen, 4-5 pit, 1-2 pens, best display. At Louisville, Ky.: 5 cock, 3-4 hen, 1-3 ckl, 4 pen. American Poultry Association medal for best cockerel in the American class, silver cup for best White Rock, silver cup for best cockerel. At Dayton, Ohio: 1-5 cock, 1 hen, 1 ckl, 2-5 pit, 2-5 pen, silver cup for best display, medal for best bird in class.

Oat Sprouter \$2

For \$2.00 you can build the simplest, most efficient, easiest to operate and very best oat-sprouter ever constructed. A boy can make one in an evening with no tools but a saw and hammer. Cost of operation for a 40-hen size less than 7c a month. There are thousands in successful operation. Plans with plain directions for building, 25c postpaid.

I. PUTNAM, Route 105 ELMIRA, N. Y.

140 EGG Neubert Incubator \$7.50



The famous Pioneer Hatcher of Quality made by experts of 22 years' experience. None better at any price. No cheap pasteboard or metal affair. Double wooden walls, dead air space, redwood, hot water copper tank, self regulating safety lamp, high nursery. Most simple and durable; set up ready to use. Money back guarantee. Brooders \$2.50 up. Factory price saves half. Big catalog free. Write to-day.

Neubert Incubator Factory, Box 30 Mankato, Minn.

CLASSIFIED ADS.



UNDER this heading ads will be inserted for seven cents per word each month for less than three months, and **five cents per word each insertion for three months or longer.** Changes in copy allowed every three months. Numbers and initials count as words. All ads will be inserted under **classified headings.** No ads accepted at less than an average of sixty cents per insertion. Terms, cash with each ad. Count the words carefully to avoid delay in publishing. Write your copy plainly, as upon this the correctness of your ad largely depends. When placing your ads remember that advertisers using Classified Ads get better returns from **AMERICAN POULTRY JOURNAL** than from any other poultry journal—none excepted. On writing any of these advertisers mention **AMERICAN POULTRY JOURNAL.** All copy for Classified Ads must reach us by the 17th of month preceding date of issue.

ANCONAS.

MILLER'S ANCONAS WIN anywhere. Trapnested for egg production. Eggs and chicks reasonable. Catalog free. M. L. Miller, Johnstown, Pa. 2-4

SINGLE COMB ANCONAS. Sheppard strain. Stock, eggs and baby chicks. Prices low. Miss L. L. Garvin, Rural Box 36, Wheeling, W. Va. 2-5

BUSEY'S SINGLE COMB Anconas. Stock and eggs from Chicago winners for sale. Allen Busey, Urbana, Ill. 2-4

SHEPPARD'S STRAIN ANCONA EGGS from free range stock, \$1.50 per 15. Edw. W. Meyer, Laurenceburg, Ind., R. 2, Box 28. 2-5

KING OAK ANCONAS, first prize winners at New York Palace, Boston and Brockton. Our birds rank with best. Our prices reasonable. Single and Rose Comb day-old chicks, also stock. Send for circular A. W. Locke, agent, East Weymouth, Mass. 2-5

HIGH CLASS SINGLE Comb Anconas. two yards, \$1.50 and \$1 per 15 selected hatching eggs. Louis Seifert, New Riegel, Ohio. 2-4

SINGLE COMB ANCONAS, heavy layers, hatching eggs, 15 for \$1.25. Progressive Poultry Farm, Interlaken, N. Y. 2-5

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BUFF ORPINGTON breeding cockerels; also setting eggs. Satisfaction guaranteed. Hy. Wolfe, Marissa, Ill. 2

FASHION PLATE BUFF Orpingtons. Martz strain direct. As good as the best. Eggs, \$4.00 per 15. Geo. M. Selfridge, Niles, Mich. 2-4

BUFF ORPINGTONS. Eggs, \$2.00 per setting. W. T. Elrod, Marissa, Ill., Box A. 2-4

BUFF ORPINGTONS. Eggs, \$2.00 per 15, prepaid. Catalog free. Hacker Poultry Co., Box C, Marissa, Ill. 2-4

BUFF ORPINGTONS. Queen quality. None better. 100 eggs \$5.00. Square Deal Poultry Farm, Aurora, Ill. 2-4

S. C. BUFF ORPINGTONS. Cook and Owen's strain. Eggs, \$5.00 per 100. J. Wolf, Wheeler, Ill. 2-4

GOLDEN ROD BUFF ORPINGTON eggs for hatching, from our Peoria, Springfield, Quincy and contest winners, scoring 90 to 95½. Prices reasonable. Ten chicks guaranteed. Mating list free. Richard Seward, Lewistown, Ill. 2-4

100 BUFF ORPINGTON cockerels, \$1.00 up. Martha Davison, Farnam, Neb. 2

BUFF ORPINGTONS. Best colored, winter lays and large boned, low set birds. Granger strain. Imported from England. Prices for both sexes, \$2.00 to \$5.00; \$10.00 for trios. Mrs. Chas. G. Trask, Independence, Iowa. 2-4

GOLDEN CHAMPIONS—BUFF Orpingtons. Winners Dubuque, December, 1915, third, fourth hens, third cockerel, first cock. Circular. H. Armstrong, Greeley, Iowa. 2-4

S. C. BUFF ORPINGTON eggs for hatching. Best at most reasonable price; \$3.00 and \$5.00 per 15. Sylvester Stevens, Marion, Ind. 2-4

BUFF ORPINGTON COCKERELS—\$2.50 each. Choice birds. Eggs in season. Mrs. Cora Hoover, Merrill, Iowa. 2-3

BLUE ORPINGTONS.

BLUE ORPINGTONS. Extra fine birds reasonable. Rev. W. Berberich, Groton, New York. 11-15-16

S. C. WHITE ORPINGTONS.

WHITE ORPINGTON COCKERELS and pullets, \$1.50 and \$2.50. Mrs. J. E. Biehl, Queen City, Mo. 12-2

SINGLE COMB WHITE Orpington cockerels for sale. March and April hatched, from my two hundred egg record pens, at \$5.00 each. Satisfaction guaranteed. Also day old chicks and hatching eggs in season. F. E. Parkler, 1528 Portland Ave., Chicago Heights, Ill. 12-2

WHITE ORPINGTONS. Choice pullets, yearling hens and cockerels for sale. Prices reasonable. Large, vigorous, farm reared stock. Best strains. Eggs, \$5.00 per 100. Sunnyside Orpington Farm, Sandwich, Ill. 12-2

SINGLE COMB WHITE ORPINGTONS. Cook and Owen's strain. Choice stock reasonable. August W. Schroeder, St. Peter, Ill. 12

S. C. WHITE ORPINGTONS. My birds have low down, true Orpington type. Great layers. Have five pens of grand birds, mated right. Write for mating list. Edward Witt, Sidney, Ill. 1-3

SINGLE COMB WHITE ORPINGTONS. Choice breeders. Show birds at moderate prices. Satisfaction guaranteed. E. G. Holverstott, Kenton, Ohio. 1-3

WHITE ORPINGTON WINNERS. Best strains. Bargains. Stock, eggs. Mrs. Amos. Kendallville, Ind. 1-3

EGGS FOR HATCHING from real White Orpingtons, large bone, high scoring birds. Book your order now for eggs. 2 doz. pullets for sale. Prices quoted on application. Guy Modglin, Metropolis, Ill. 1-3

BARGAINS IN HIGH scoring and utility White Orpington eggs, \$2.50 per 15. George Layman, Greenville, Ill. 1-2

FANCY BIG SINGLE Comb White Orpingtons from pure English imported stock. From immense choice cock bird and extra fine large hens. Cockerels, pullets at one-fourth price. Pherson, Bainbridge, Ind. 1-3

WHITE ORPINGTON EGGS for hatching. Extra fine cockerel for sale. Henry Brockschmidt, Freistatt, Mo. 2-3

WHITE ORPINGTONS of quality. "Aldrich" and "SB" strains. Winners Brookfield, Ill., and Hammond, Ind. Cockerels and hatching eggs. Write for mating list. S. B. Brennan, 3140 Irving Ave., Berwyn, Ill. 2-4

S. C. WHITE ORPINGTON baby chicks from trapped stock, 100 for \$15.00; eggs, 100 for \$5.00. Safe delivery guaranteed. Cedarhurst Poultry Farm, H. E. Hussey, Princeton, Ill., R. D. 8. 2-4

WHITE ORPINGTONS. America's best blood strain. 100 eggs \$5.00. Square Deal Poultry Farm, Aurora, Ill. 2-4

WHITE ORPINGTONS, COCKS and cockerels from some of the world's most noted prize winning pens. Will ship on approval. Eggs, fancy and utility, a specialty. Prices reasonable. E. C. Goode, Boydton, Va. 2-3

SINGLE COMB WHITE Orpingtons, large, heavy, good type, color, heavy winter layers. Eggs, 15, \$2.00; 30, \$3.50; 50, \$5.00; 100, \$8.00. Satisfaction and safe arrival guaranteed. Mrs. Ella Whitwood, Hudson, Ill. 2-5

SINGLE COMB WHITE Orpingtons from Archwood Yards, Sussex strain, great, large, low down, massive type, extremely white, grand winter layers, grow like weeds. Eggs, 15, \$1.50; 50, \$4.00; 100, \$7.00. Lee W. Morgan, Independence, Indiana. 2-4

S. C. WHITE ORPINGTONS, the big winter layers. Eggs, \$2.00 per 15. Gustave Keller, Mountain Home, Ark. 2-4

FOR SALE — FEW BREEDERS Single Comb White Orpingtons. Bargains. G. H. Lacey, 13 Belmont, Warren, Ohio. 2

WHITE ORPINGTONS from imported stock. A few cockerels for sale. Eggs. Brookwood Farm, W. T. Morgan, Prop., Mooresville, Ind. 2-3

WHITE ORPINGTON COCKERELS. A fine bunch at \$2.00 and \$3.00 each. Eggs, \$2.00 to \$3.00 per setting. Utility, \$6.00 per 100. Split Rock Poultry Farm, La Salle, Ill. 2-4

R. C. WHITE ORPINGTONS.

ROSE COMB WHITE Orpingtons, favorite fowl; to commend them, they lay in winter when eggs are high. Best table fowl. Hardy, docile, beauties. Prize winners when shown. My strain has these qualities. Eggs and stock for sale. Frank A. Braxington, Cleveland Heights, O. 2-4

WHITE ORPINGTON HOME. Rose Comb White Orpingtons, best laying and prize strain. Stock and eggs reasonable. Hatch guaranteed. Earl L. Cook, Munnsville, N. Y. 2-4

PARTRIDGE ORPINGTONS.

PARTRIDGE ORPINGTONS. Eggs from first prize Chicago pen, \$5.00; other pens, \$3.00 per 15. E. Schmidt, Hazelrigg, Ind. 2-4

PARTRIDGE ORPINGTONS. Eggs, \$2.00 per 15, prepaid. Catalog free. Hacker Poultry Co., Marissa, Ill., Box C. 2-4

BLUE ORPINGTONS.

WORLD'S FAIR, San Francisco, Cal., 1 cockerel, 1 hen, 2 pullet. Madison Square, New York, 9 birds entered, 7 won. Write Dr. Creath, Ottumwa, Ia., Box A. 2-4

FOR STANDARD BLUE Orpingtons address Dr. Edwards, Laceyville, Pa. 2

BLUE ORPINGTONS. Eggs from choice pen, \$3.00 per 15. E. Schmidt, Hazelrigg, Ind. 2-4

BLUE ORPINGTON eggs, \$2.00 per 15, prepaid. Catalog free. Hacker Poultry Co., Marissa, Ill., Box C. 2-4

ROYAL BLUE ORPINGTONS of great size and color; two shipments imported from England by myself last spring. Eggs, \$3.00 and \$5.00. Dell Shepherd, Olney, Ill. 2-4

BLUE ORPINGTONS. Imported stock. No better stock for sale. 15 eggs, \$3.75; 30 eggs, \$7.00. Baby chicks, 10 for \$6.00; 20 for \$10.00. Orders booked now. Write. Alex M. Glew, Farley, Iowa. 2-4

ORPINGTONS.—SEVERAL VARIETIES.

FOR THE BEST Orpingtons, any variety, send to their originators, William Cook & Sons, Box A., Scotch Plains, New Jersey. Catalog free. 11-15-tf

ORPINGTON BARGAINS. White, Buff, Black and Blues. Breeders, \$2.00 up. Show birds reasonable. Winnings and bargain list free. Satisfaction guaranteed. Progressive Orpington Farm, Box A, Fort Gage, Ill., Beare, prop. 12-2

ROSE COMB BUFF, Black, White Orpingtons. H. C. Faulkner, Marshall, Mich. 12-2

THINK! EGGS FROM CHOICE pens Buff and White Orpingtons. All breeders trapped. Settings, \$1.60. Gramann, Marine, Ill. 2-4

POLISH.

WHITE CRESTED BLACK Polish. Cockerels, \$5.00 and \$10.00. Eggs, \$2.50 and \$5.00. Pullets and chicks upon request. Noah Graybill, Walla Walla, Wash. 2-4

RHODE ISLAND REDS.

SINGLE COMB REDS of highest quality. Stock and eggs for sale, at all times. Mrs. Louise Schroeder, St. Peter, Ill. 11

ROSE COMB REDS, 11 years' exclusive breeder. If you need anything in Reds, it will pay you to write me before you buy. Money back if not satisfied. Garnet Grange Poultry Yards, Westfield, Ind. 11-2

ROSE AND SINGLE Comb Reds, Buschmann strain. Choice stock, reasonable. August W. Schroeder, St. Peter, Ill. 11

ONE HUNDRED LARGE Single Comb Red cockerels, all bred from exhibition stock; fine color, fine type; \$3 and \$5 each. Satisfaction guaranteed. Scott Covalt, Box A, Council Bluffs, Iowa. 1-3

ROSE COMB RHODE ISLAND Red cockerels from blue ribbon winners, \$2 to \$5 each. Shipped on approval. Eggs \$2 per 15. Quality is our hobby. Fred R. Thornton & Son, Streator, Ill. 1-3

EXHIBITION SINGLE COMB Reds. "Square Deal." Rev. Alfred Smith, West Union, Ohio. 1-3

S. C. RHODE ISLAND Reds, Scranton strain. Twenty-five nice dark red large bone cockerels. Numbers of hens for sale. Prices reasonable. Eggs in season. C. A. Cutchins, Franklin, Va. 1-3

FOUR DOLLARS PER HUNDRED EGGS. Welday's Famous S. C. Reds. 15 special mating eggs guaranteed to produce winners at any show, \$3. Startling price smasher catalog free. Welday, Seville, Ohio. 1-3

TOMPKINS' SINGLE COMB Reds bred for heavy winter laying. Big winners at Washington shows. Country raised. Best eggs \$2 for 15; \$8 for 100. Circular free. Chas. S. Moore, Bethesda, Md. 1-3

EGGS FOR HATCHING from high class Single Comb Reds, \$1.25 per 15. Red Feather Farm, Edgerton, Ohio. 1-3

ATTENTION — CHOICE BREEDING cocks, cockerels, hens, pullets, pens. Rose Comb at bargain prices. Going out of business. While they last. F. L. Snedeker, East Orange, N. J. 1-3

MY SINGLE COMB REDS won at Evansville, Louisville and Mt. Carmel. Extra choice breeders \$2 up. Philip A. Seifert, Mt. Vernon, Ind. 1-3

FOR SALE 50 FINE S. C. R. I. Red cockerels. Aristocrats. Good and well developed. Very finely colored. At prices that you can stand. Leon H. Roueche, Guys Mills, Pa. 1-3

CHOICE UTILITY BIRDS, both combs. Bred from Chicago, Boston, etc., winners. Cockerels, \$2.50 to \$5.00; pullets, \$1.50 to \$3.50. Order direct from ad. M. Schmidt, Chaska, Minnesota. 12-3

FOR SALE QUICK! Single Comb Rhode Island Reds, fifty pullets, ten cockerels of quality and type. Price, low if sold before March 1st. Birds sold on approval and satisfaction guaranteed. J. W. Brinsler, Richmond, Va. 12-2

UMBARGER'S GARNET REDS. Choice April hatch, vigorous, type S. C. R. I. Red cockerels. Record laying and show strains. Brilliant surface, red to skin five-point combs. Russell H. Umbarger, Woodland Home Farm, Westfield, Illinois. 12-2

COCKERELS, SANBORN S. C. Reds, special matings; dams 230, 240 eggs. Reasonable. Circular. William Jacobs, Salem, Ohio. 12-2

SINGLE COMB REDS of highest quality. Beautiful, dark, brilliant red color, of large size, good type. Heavy laying strain. Fine breeding cockerels for sale. Mating list free. G. A. Haper, Batchtown, Ill., R. 8. 12-2

J. POORMAN'S MIDLOTHIAN strain, 200 eggs a year. Rose Comb Rhode Island Reds, March and April hatched cockerels, \$3.50. Trap-nested stock only. Arthur M. Hanson, Montevideo, Minn., R. 1. 12-2

KRUEGER'S ROSE COMB REDS won at seven state shows, now again at Panama Exposition, Des Moines and Chicago. Coliseum shows. Birds both sexes for sale. F. C. Krueger, Charles City, Iowa. 1-3

IMPERIAL REDS for color. As Red as the finest. 2-4

LARGE BONED BRILLIANT deep red S. C. Reds; long back, low tail, good breeding and show stock, \$2.50, \$5 and \$10 each. Guaranteed to suit. Lela Osterfoss, Hedrick, Iowa. 2

RHODE ISLAND REDS, both combs. Thompkin, Bean, Grother strains. Seventy cockerels, twenty pullets; \$2.00 to \$5.00. Eggs in season. Free mating list. Write now your wants. Z. Turner, Eleroy, Ill. 2-4

ROSE COMB REDS. Healthy, vigorous birds. Splendid layers. Good fertility. Eggs from selected pens, \$2 per 15, or \$9 per 100. R. O. Lindquist, R. 3, Box 62, Chesterton, Indiana. 2

MADISON SQUARE GARDEN winners, S. C. Reds at prices that are right. H. P. Deming, Winsted, Conn. 2

S. C. R. I. REDS. Tompkin's and Scran-ton's strain. We have the best lot of young stock we ever raised. Eggs for hatching, \$6.00 per 100. Mapleglen Farms, Jackson Corners, N. Y. 2-4

LARGE, GOOD TYPE, dark brilliant Single Comb Reds, heavy all year round layers. Fine winter layers. Eggs, 15, \$2.00; 30, \$3.50; 50, \$5.00; 100, \$8.00. Satisfaction and safe arrival guaranteed. Mrs. Ella Whitwood, Hudson, Ill. 2-5

IMPERIAL REDS for layers. Egg rates 170 to 274. 2-4

S. C. R. I. REDS. Tompkin's and Scran-ton's strains. Eggs for hatching a specialty; \$1.00 per 15, \$6.00 per 100, \$25.00 per 500. J. S. Bergh, Jackson Corners, N. Y. 2-4

ROSE COMB RHODE ISLAND Reds. Blue ribbon winners at several shows. Eggs for hatching. Four pens mated. Get my 1916 mating list, free to you. Thomas J. Britton, Kentland, Ind. 2-4

SINGLE COMB REDS. Choice stock reasonable. Cockerels, \$1.50 each. Eggs, \$1.00 per 15, \$4.00 per 100. Mrs. Fred Schroeder, St. Peter, Ill. 2

SINGLE COMB RHODE ISLAND Reds. Hatching eggs from selected birds, combining great egg laying qualities with good size, shape and color. A. A. Truby, Lombard, Ill. 2

ROSE COMB REDS. Great laying strain. Fine cockerels, hens, pullets, \$1.00 up. Eggs. Circular. Albert Daily, Frankfort, Ohio. 2-4

EGGS FROM RHODE ISLAND Reds scoring up to 93½, \$1.50 per 15. Quality high; price low. Why pay more? A trial order is all I ask. Den Tomlinson, Browns, Ill. 2-4

IMPERIAL REDS for you. The most satisfactory strain. War prices on cockerels and eggs. W. L. Miller, German Valley, Ill. 2-4

SINGLE COMB REDS, dark red, good shape and red eyes; \$3, \$5 and \$10; trios \$7 to \$15; pens \$10 to \$25. Mrs. C. Frank Spurling, Box 49, Lovington, Ill. 1

RHODE ISLAND WHITES.

ROSE COMB RHODE ISLAND Whites. Trap-nested stock. Eggs and chicks from New York and Panama-Pacific International Exposition winners. Send for mating list. G. S. Boller, Little Valley, N. Y. 2-4

ROSE COMB RHODE ISLAND Whites. At the Rhode Island White Club Show at Louisville, Ky., November 22-27, 1915, in competition with best Whites in the world, I won 1st, 2d hens, 1st pullet, 5th cock, 2d pen. Every bird I entered won. Write for mating list. J. T. Patrick, Route 4, North Vernon, Ind. 1-3

ROSE COMB RHODE ISLAND Whites, bred for heavy egg production. Pen eggs \$2 per 15 and up. Range flock eggs 15 for \$1.25; 50 for \$3; 100 for \$6; chicks 25 lots and up 20 cents each; cockerels \$2, \$3.50 and up; cocks \$3.50 each and up. Fredk. Havig, Route 2, Osage, Iowa. 1-3

HEADQUARTERS FOR ROSE Comb Rhode Island Whites. I am the oldest breeder of this breed. Eggs and stock for sale from this wonderful laying strain. Free catalog. C. A. Foster, Colonial Poultry Yards, Akron, Ohio. 1-3

R. C. RHODE ISLAND Whites. Eggs in season. Fertility guaranteed. L. C. Huber, Batesville, Ind. 2-4

THE GREATEST RHODE Island White farm in the world. Rose and Single Comb. Trios, \$6; pens, \$10. Eggs and baby chicks. Catalog free. Henry Eichelmann, Waterloo, Ill. 2-4

RHODE ISLAND WHITE eggs, \$1.50 per 15. Both combs. Winter layers. John Roth, Morton, Ill. 2-4

BARRED ROCKS.

STAMPER BARRED ROCKS are better. Every bird shipped on approval. Write about prices. M. L. Stamper, Clifton Hill, Missouri. 11-3

BARRED ROCKS. Thompson strain. Choice stock reasonable. August W. Schroeder, St. Peter, Ill. 11

VREELAND'S BARRED ROCKS. Birds of quality, bred for exhibition and utility purposes. Some grand cockerels and pullets bred from my silver cup winners and heavy layers. Pullet line. A. L. Vreeland, Nutley, N. J. 12-2

FINE LARGE FARM raised Ringlet Barred Rock cockerels, full of vigor, \$3.50; fully matured pullets, \$3.00. Bert Hicks, Canandaigua, N. Y. 12-2

BARRED ROCKS. Thompson, Hawkins and Bradley strain. Shipped on trial, approval or C. O. D. Pullets and cockerels, \$1.00 each. Mrs. Edith Chelton, Landonville, Md. 12-2

BARRED ROCKS FINE cockerels, \$2.50 and \$3.00; pullets, \$1.50 and \$2.00. Dr. Milbrandt, Crosswell, Michigan. 12-2

BARRED ROCK THOMPSON and Latham strain. Cockerels shipped C. O. D. Stirdivant Farms, Sheboygan Falls, Wis. 12-2

PARKS' 200-EGG BARRED Rocks. Pens headed by sons of 232, 238, 246, 247 and 253-egg hens. 15 eggs, \$1.50; 50, \$4.50. Also cockerels. Circular free. Frederick Matteson, 3808 Woodley Lane, Washington, D. C. 12-2

BARRED ROCKS. Bradley strain direct. Snappy, vigorous. E. C. Pendleton, Golden, Ill. 12-2

BARRED PLYMOUTH ROCKS. E. B. Thompson strain. Fine vigorous cockerels of either mating, good shape, nicely barred. Price, \$3.00 to \$5.00. Sent on approval. Mrs. E. A. Oliver, Belleville, Wis. 12-2

WINNERS—270-EGG record. Catalog. W. W. Kulp, Pottstown, Pa., Box 70. 12-2

"RINGLET" BARRED ROCKS sold on approval. Both matings. Choice show birds and breeders, \$2 to \$10 each. Mated pens (four females and male), \$10 to \$20. Circulars and photos. John Northon, Clare, Michigan. 12-3

RINGLET BARRED ROCKS. Large, vigorous, farm range cockerels that win and produce winners. Both matings. High quality birds at bargain prices. Winnings free. Mrs. J. M. Kemp, Kenney, Ill. 12-2

BIG THOMPSON RINGLET Barred Rocks. Mrs. James Whitesides, Memphis, Ind. 12-2

BARRED ROCKS—Stock and eggs. Indianapolis 1914 and 1915, state champion cockerel, 1st pen, 2d pen, 1st cockerel, 1st pullet, 2d and 3d hen. A limited number of birds for sale. W. H. Goddard & Sons, Orchard Place, Riverside, Muncie, Ind. 1-3

BARRED ROCK EGGS from handsome, splendid layers. If you desire quality and low prices write me. Veit Schoenberger, Glendale, Ohio. 1-3

PRIZE WINNING RINGLET Barred Rocks. Extra heavy laying strain. Unusual bargains in cockerels. Eggs \$2.50 setting. William Kendall, Greenville, Ill. 1-3

FAIR VIEW BARRED Plymouth Rocks and Single Comb R. I. Reds. Splendid layers. Winners New York, Albany, Syracuse, Catskill. Eggs \$2 and \$3 setting. Frederick Coons, Greendale, N. Y. 1-3

DON'T LOOK FOR LARGE Barred Rock ads. Buy cockerels and females from our cockerel bred winners at Galesburg, Quincy, Jacksonville and other shows. Write me and find out who is George A. Coffman, Rushville, Ill. 1-3

BRED TO LAY BARRED Rocks. Cockerels and eggs for sale. John Watt, Forest, Ill. 1-3

RINGLET ROCK EGGS, \$1.25 to \$5.00 per 15; 100, \$5.00. Both matings; two pens direct last spring. V. I. Hostetler, Nappanee, Ind. 12-2

MRS. ARCH LAGEL, breeder of Barred Rocks. Stock and eggs for sale. Depauw, Ind. 2-3

SPRING CREST BARRED Rocks. Large farm raised cockerels, \$2 to \$8. Eight years breeding for eggs will improve yields of your flocks. Fifteen eggs, \$2. Walter C. Smith, Spring Crest, Wauwatosa, Wis. 2-4

CHOICE BARRED ROCK cockerels and pullets, grand shape, distinct narrow barring, even color, \$2 and \$3. Satisfaction guaranteed. Walter Gerwig, Forreston, Ill. 2

RINGLET BARRED ROCKS. Direct. Both matings. Good cockerels. Lt. Brahmas. Eggs, \$2 and \$3 per 15. Lackawanna Poultry Farm, North Water Gap, Pa. 2

PARKS STRAIN, eggs for hatching and baby chicks from healthy, prolific stock in open houses on free range. Chicks hatched in mammoth incubator. Chicks, \$15.00 per 100; eggs, \$1.50 for 15; \$4.00 for 45; \$8.00 per 100. H. W. Taylor, Belton, Md. 2-4

ROSEMOUNT BARRED ROCKS win 1st at Cleveland, 1916. The ever better kind. Illustrated catalog. Stock, eggs, chick. Franklin, Pa. 2

PARKS 200 BARRED ROCKS. Some good cockerels for sale. Eggs, 15, \$1.50; 50, \$3.50. Write Ed B. Murphy, Box 4, Carmel, Ind. 2-4

RINGLET BARRED ROCK eggs and baby chicks. Quality stock. Satisfaction guaranteed. Correspondence solicited. Oliver Thurnau, St. Jacob, Ill. 2-4

HAWKINS' BARRED ROCKS. Eggs, 15, \$2.00; 30, \$3.00. Catalog free. Methodist Minister, Springfield, Ky. 2-4

BARRED ROCK EGGS, \$2.00 per 15, from these winners, Shenandoah, Omaha, Atlantic, Des Moines, Clarinda, Kansas City, 1915-16. Mart Rahn, R. 20, Clarinda, Iowa. 2

BARRED ROCK EGGS from special mating that will produce fine exhibition males and heavy laying females. 15 eggs, \$1.50; 30, \$2.50; 100, \$5.00. Order direct from this ad. Riverview Poultry Yards, Yale, Mich. 2-4

BARRED ROCKS. Ringlets. Eggs, 100, \$3.50; 30, \$1.75; 15, \$1.00. E. P. Churchill, Allerton, Iowa. 2-4

DO NOT ORDER BARRED Plymouth Rock eggs for hatching until you see our January folder. It's a revelation. Shows original photographs of breeding pens; prices and guarantee. Write today. Peerless Poultry Plant, Ogdensburg, N. Y. 2-4

E. B. THOMPSON'S Ringlets direct. Extra choice cockerels, females and eggs, big vigorous stock; bred from winners; best New York winning blood from proven breeders. Have spared neither pains nor money. William Huckle, Waverly, N. Y. 2-4

BARRED ROCK EGGS, \$1.50 per 15; \$2.75 per 30. Won 1st cockerel, Bushnell, score 92½. Edwin Laux, Bushnell, Ill. 2-4

BARRED ROCKS. Thompson-Holterman strains. Eggs from large, healthy, prize winning and high scoring birds, \$2.50 per 15. Quality and fertility guaranteed. Mrs. J. M. Wales, Springfield, Mo. 2

BARRED ROCKS, PRIZE winning Thompson's Ringlets. Both matings. Cockerels for sale. Eggs March 1st. Circular. F. L. Gould, Table Grove, Ill. 2-3

BARRED ROCK pullets for sale that will make splendid layers. Also incubator eggs. L. F. Thompson, Hope, Ind. 2-3

RINGLET PRIZE MATINGS. Eggs, \$2.00 per setting. Rev. W. W. Cole, Angelica, N. Y. 2-4

RINGLET BARRED ROCK Eggs. Stock direct from Thompson, \$2.00 for 15, \$3.50 for 30. Can ship in zero weather without chilling. New way of packing. 95% fertility guaranteed. Brookwood Poultry Farm, Cary Station, Ill. 2-4

QUALITY BARRED ROCKS. Eggs from our winners at Illinois State Show, Aurora, and Streator. Both matings. Mating list upon request. Laufer Bros., Millbrook, Ill. 2-4

GOLDEN BARRED ROCKS.

GOLDEN BARRED ROCKS—15 eggs \$3 or 30 for \$5. A. E. Sitz, Humphrey St., Logansport, Ind. 2

COLUMBIAN PLYMOUTH ROCKS.

COLUMBIAN ROCKS. First prize winners Illinois State Fair, 1915. Three silver cups, 1914. Cockerels, pullets and hens for sale. Show birds or breeders. Eggs for hatching. Clarence Atchison, Jerseyville, Illinois. 12-2

COLUMBIAN ROCKS. The laying kind. Birds that are right at a price that is right if taken at once. Shipped on approval. Watch my winnings. Clarence Johnson, Attica, Ind. 12-2

COLUMBIAN PLYMOUTH ROCKS—Winners and layers. See ad. on page 208. 1-16-1 yr

CHAMPION HEAVY WEIGHT egg layers. Chicago winners. 15 Eggs \$1.50. Stock for sale. Write your wants. Erwin H. Spencer, Irving Park Sta., Chicago, Ill. 2-4

COLUMBIAN ROCKS. Lay and win. Eggs \$3, \$2 and \$1 per 15. Go. Clotzbah, Goltry, Okla. 1-4

WHITE PLYMOUTH ROCKS.

WHITE ROCKS. Trap-nested, heavy laying strain. Stock for sale. Write for price list. Hillview Poultry Yards, Box A, Batesville, Ind. 11-2

WHITE ROCKS, Fishel strain. Choice stock reasonable. August W. Schroeder, St. Peter, Ill. 11

WHITE ROCK COCKERELS, Fishel direct, farm-raised, \$2.00. Mrs. Ernest Francis, Towanda, Ill., Route 1. 12-2

DAILEY'S WHITE ROCKS. Choice cockerels from selected layers. \$2.00 each; 3 for \$5.00. N. E. Dailey, Hornick, Ia. 12-2

"COLFAX" WHITE ROCKS improve your flock. Husky, hardy, healthy pullets, cockerels, cocks, hens. Write your wants. Please do! T. F. Richardson, "Colfax," Evanston, Illinois. 12-2

WHITE ROCKS. Midlothian-Fishel strain direct. Heaviest layers. Choice trap-nested breeders. Satisfaction guaranteed. Circular free. B. A. Alderson, Salem, Illinois. 12-2

WHITE ROCKS, CHAMPION winners at St. Louis, Kansas City, American Royal, Missouri State Show, Kansas State Show, Oklahoma State Show, Missouri Valley Exposition, and other prominent shows. We sold birds for St. Louis, also the World's Fair at San Francisco this year. Our strain wins in any show. Satisfaction guaranteed. We take no back seat for quality. A trial order will convince. Send for special sale list. Eggs \$5.00 per 15 in season. Wible's White Rock Farm, Chanute, Kansas. 12-2

FISHEL WHITE ROCKS direct; farm raised. Prominent winners under prominent judges. In health, constitutional vigor and Standard requirements they will please you. Splendid breeding cockerels, \$2.00, \$3.00 and \$5.00 each. A few choice ones \$8.00 and \$10.00 each. Satisfaction guaranteed. Poultry let free. Plummer McCullough, Bouth Judge, Mercer, Pa. 12-15-1yr

FISHEL WHITE ROCKS blue ribbon winners at several large shows. Exhibition breeders and utility. Free catalog. Whiteview Poultry Yards, Mishawaka, Indiana. 12-2

HIGH CLASS WHITE ROCKS. U. R. Fishel strain direct. Eggs of great laying strain. 15 eggs \$1; 50 for \$3; 75 for \$4.50; 100 for \$5, 200 for \$10; 500 for \$25, fresh laid. Cockerels, hens reasonable. Henry Heitkamp, C 91, New Bremen, Ohio. 1-4

WHITE ROCK EGGS from prize winners at leading shows. \$2.00 per 15 delivered. Woodford Poultry Farm, Station M, Cincinnati, O. 2-4

WHITE ROCKS—MY STOCK has been bred for egg production as well as for fancy show points, and prove to be of the best. Eggs, \$1.50 per 15. Stock for sale. Satisfaction guaranteed. R. K. Galebach, R. 6, Manheim, Pa. 2

WHITE ROCKS—EGGS from the best of matings, \$3 per 15. Ferd. W. Floyd, Box R, Dillsburg, Pa. 2-4

WHITE ROCKS—Good breeders, males and females. Eggs for hatching. Guaranteed fertility. Free circular. Hoch & Frederick, Box O, Chambersburg, Pa. 2-4

WHITE ROCKS, FISHEL Strain—Eggs from our prize winning pens and trap nested layers, \$1.50 to \$3 per 15. Send for mating list. Roselawn Poultry Yards, South Bend, Ind. 2-4

WHITE PLYMOUTH ROCKS — "They please where others fail." Eggs, \$3 per 15. Nine chicks guaranteed or orders refilled at half price. Jas. W. Morrissey, 108 W 3d St., Alton, Ill. 2-4

CROCKETT'S WHITE ROCKS line bred stock; dependable layers. Eggs, \$1.50 per 15; \$7.50 per 100. Chicks, \$18 per 100. Crockett Poultry Farm, Bridgman, Mich. 2-4

FOR SALE—CHOICE White Rock cocks and cockerels. Eggs for hatching. E. S. Hess, Kentland, Ind. 2-4

WHITE ROCKS—FisHEL direct; fine laying strain; extra large eggs. \$1 for 15; \$3 for 50; \$4.50 for 100. Good percentage fertility guaranteed. George Boye, St. Peter, Ill. 2-4

WHITE ROCKS, FisHEL Strain, eggs, \$5 per 100. J. Wolf, Wheeler, Ill. 2-4

HIGH CLASS WHITE ROCKS — FisHEL Strain direct; 15 eggs \$1; 100 eggs \$5; 200 eggs \$9; 500 eggs \$22. George Lehmkuhl, New Bremen, O., Box 182. 2-5

WHITE ROCKS FROM famous Felch Strain. Booking settings now. Few fine ones only. Three dollars per setting. Established 1860. Broadwell Strain, Metamora, O., Fulton Co. 2-4

WHITE ROCKS — HALBACH DIRECT. Matings headed by big winners. Early developing trap nested strain. Flock average 176 eggs. Pullets lay in 4 to 5 months. Hatching eggs with liberal fertility guarantee, \$6 for 100; \$1.50 for 15. Postal brings circular. Snowflake Poultry Farm, Tallula, Ill. 2-4

WHITE ROCK COCKERELS. Eggs for hatching. Write for circular. Satisfaction guaranteed. A. S. Lindsey, Hendricks, W. Va. 2-4

WHITE PLYMOUTH ROCK cockerels from stock of 200 egg records. Very vigorous. \$5 each. Hatching eggs 15c each. Day old chicks 25c each. All from my 200 egg strain. M. A. Stockley, Winnetka, Ill. 1-3

WHITE PLYMOUTH ROCKS—The kind that win. Eggs \$1.50 per 15; \$8 per 100 prepaid. Myers & Garland, Lehmasters, Pa. 1-3

WHITE PLYMOUTH ROCKS. Best laying strain. Eggs for hatching \$1.50 per 15; \$6 per 100. Day old chicks 15 cents each; \$14 per 100. Mrs. Gilbert Luyster, Franklin, Ind., R. 4. 1-3

BUFF PLYMOUTH ROCKS.

BUFF ROCKS. Poley's strain. Fine old and young birds for sale. \$1.50 up. Satisfaction guaranteed. J. A. Heiser, Fisher, Illinois. 12-2

FIELD'S BUFF ROCKS won honors at Boston, Madison Square Garden, 1915. Cocks, hens, cockerels, pullets for any competition. Field, Somers, Conn. 12-3

MYRON WEAVER, Lewis, Iowa, exclusive breeder of Buff Rocks, winners at Omaha and Iowa State Fair and all local shows past 4 years. Stock and eggs for sale. Prices reasonable. 1-3

BUFF ROCKS, WINNERS and layers. Great shape, size and color. Cocks, cockerels, hens, pullets, chicks and eggs for sale. Chas. C. Reinohl, North Lawrence, Ohio. 11-4

PARTRIDGE PLYMOUTH ROCKS.

AMERICA'S PROVEN CHAMPION Partridge Rocks and Bronze Turkeys. See our adv. on page 352. 5-15-1f

PARTRIDGE PLYMOUTH ROCK eggs for hatching. Satisfaction guaranteed. Write for free circular. John Saam, Mohawk, Mich. 2-4

PARTRIDGE PLYMOUTH ROCKS—Won first cock, first, second hen at Quincy; first cock at Chicago; First pen, first, second hen, first, second cockerels, first pullet at Kansas City. Write me your wants. Dr. Statler, Granger, Mo. 2-4

PARTRIDGE ROCKS from noted winners on approval. Price right. West View Farm, Columbia City, Ind. 2-3

PARTRIDGE PLYMOUTH ROCKS—Eggs from prize winners. Paul Wurtzel, Dept. 5, Freeport, Ill. 2-6

PARTRIDGE ROCKS—Eggs from large, vigorous stock, \$2 per 15; \$3 for 30; \$4 for 50; \$7 for 100. Hez. Kinter, Dillsburg, Pa. 2-4

PARTRIDGE PLYMOUTH ROCKS—Kentucky thoroughbreds. For the best, write Dr. J. Hogan Bray, Greenville, Ky. 2-4

"RIVERDALE" PARTRIDGE Rocks have just won 20 ribbons, 4 sweepstakes. Stock for sale. R. F. Schuler, Roann, "Riverdale," Ind. 12-2

SPLENDID PARTRIDGE ROCK pullets from New York State Fair and Detroit show winners. \$1.50 up. Cyrus Pattee, South Bend, Indiana. 12-2

PARTRIDGE ROCK COCKERELS, scored 91½ and 91½ by Rikhooff and Leland, \$5.00 each. Chas. Morgan, Loda, Ill. 2

PARTRIDGE ROCK COCKERELS, scoring 90 to 92, from \$2.50 to \$5.00. Wm. Burkhart, Sandwich, Ill., Box 410. 2-3

PLYMOUTH ROCKS—SEVERAL VAR.

PRIZE WINNING WINTER laying strain Partridge, White, Buff, Barred Rocks. Eggs \$2.50 for 15; \$4 for 30. J. P. Kraus, Farmington, Minn. 2-4

RED CAPS.

ENGLISH RED CAP cockerels for sale from prize winning stock, \$2 up. Anton Eckhart, Haubstadt, Ind. 1-2

RED SUSSEX.

RED SUSSEX. My mating list ready about January 1st. Write for it. Have imported 20 birds this fall, which will help make up my pens. W. W. Graves, Jefferson City, Mo. 12-2

RED SUSSEX. Get our descriptive circular and prices on stock and eggs. Quality the best. Highland Farm, Mt. Carmel, Ill. 2-4

RED SUSSEX EGGS for hatching; quality Mahogany Reds; carefully mated; many first prize winners. Send for descriptive Mating List. Eggs \$5 and \$3 per 15. Zeigler & Eldridge, Plymouth, Wis. 1-6

RED SUSSEX—Importers and breeders; 13 years' experience breeding fancy poultry. No culls in our pens. Eggs two-thirds off. Only \$5 for 15 now. Lauer Bros., Queen City, Mo. 2-4

RED SUSSEX—Greater Chicago and Missouri State Show blue ribbon winners; three grand pens. Eggs \$3 and \$5 per 15. Write for mating list. Fred Landgraf, Marissa, Ill., Box A. 2-5

RED AND SPECKLED SUSSEX—Write for prices on stock. Eggs in 50 and 100 lots. See large ad. Coburn's Red Sussex Farm, St. Clair, Mich. 2-16-1f

RED SUSSEX—We prepay egg shipments and guarantee ten chicks to hatch. Our prices are low, guarantees most liberal, and we claim to have as good as the best Sussex in America—three important considerations. Four pens mated to produce that rich mahogany color. Circular. Walter G. Brown, Ipswich, Mass. 2-4

RED SUSSEX for sale—Have some splendid birds from the very best flocks in this country and can furnish pens, trios or single birds very reasonable. Eggs in season. L. W. Crank, Elsberry, Mo. 2

SPECKLED SUSSEX.

SPECKLED SUSSEX. Get the blood produced by "King," the champion Speckled cock of the world. Limited setting of eggs after February 1. Write for prices. T. Cadwallader, Doylestown, Pa. 12-2

SPECKLED SUSSEX. Choice stock priced reasonably. Rev. W. Berberich, Groton, New York. 11-15-1f

MY PRICES ON SPECKLED Sussex will interest you. Write me. Rev. W. Berberich, Groton, N. Y. 2

SPECKLED SUSSEX eggs, \$3 and \$5 per setting. W. T. Elrod, Marissa, Ill., Box A. 2-4

SUSSEX.—SEVERAL VARIETIES.

RED AND SPECKLED Sussex for sale. Have ninety large-framed fine colored cockerels, from imported stock. Very low prices for such quality. Eggs in season. Walter G. Brown, Ipswich, Mass. 12-2

SUSSEX EGGS for hatching. All varieties, \$3.00 to \$15.00 per setting. Stock for sale. Dr. H. W. Conrad, Hackensack, N. J. 2-4

RED AND SPECKLED SUSSEX—The best blood obtainable. Stock and eggs for sale. Aug. D. Arnold, Dillsburg, Pa. 2

SPANISH.

WHITE FACED BLACK Spanish stock from silver cup winners, \$2.50 and up. Eggs, \$2 per 15. J. R. Galloway, Elwood, Ind. 2-5

BLACK WYANDOTTES.

FINE BLACK WYANDOTTE cockerels, \$2.00; trios, \$5.00. Eggs in season. Satisfaction guaranteed. Mrs. Jack Wilson, Lewistown, Ill. 12-2

BLUE WYANDOTTES.

BLUE WYANDOTTES—Imported direct from England, and exclusive breeder of Blue Wyandottes. Winners at the Panama-Pacific and Madison Square Garden, 1916, shows. Write for catalog. Cloyd C. Rose, Olney, Illinois. 2-4

BLUE WYANDOTTES—DIRECT import from England. Grand in color, yellow legs. Eggs, \$3.00 and \$5.00 per 15. Catalog. Frank Hendershot, Stevensville, Ontario. 2

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NOWATA FARM BUFF Wyandottes are pure Golden Glow strain. Clean sweep in Erie, January, 1915. Cockerels for sale, also two cock birds. Eggs in season. R. A. Page, North East, Pa. 12-2

EGGS \$2 PER 15—Netzle's Famous Buff Wyandottes. Stock reasonable. Ben H. Netzley, Martinsville, Ill. 2-4

BUFF COLUMBIAN WYANDOTTES.

BUFF COLUMBIAN WYANDOTTES—A handsome new variety. Dr. Harwood, Malone, N. Y. 2-4

COLUMBIAN WYANDOTTES.

COLUMBIAN WYANDOTTES that showed their superior quality by winning more first, second and third prizes this season at Chicago, Minneapolis, Winnipeg and Minnesota State Fair, than all my competitors combined. Mating list free. Geo. A. Kersten, Washburn Park, Minneapolis, Minn. 3-15-1yr.

COLUMBIAN WYANDOTTES (Kersten strain). Show birds and breeders, \$2 to \$5. Birds scoring 92 to 93½ under Heimlich, Heck and Klein. Satisfaction guaranteed. Eggs, \$2 to \$5. J. M. Harriss, Benton, Ill. 12-2

FOR SALE. Columbian Wyandottes, yearling hens, score 90, or better, \$3 each. Cockerels same. Order from this "ad." Good breeders. Send order before all are gone. Aaron J. Felthouse, Elkhart, Ind. 12-2

COLUMBIAN WYANDOTTES stock for sale. Pullets laying at five months; five-pound cockerels at five months. No better stock anywhere. Write me. Foot and mouth prices and satisfaction. S. M. Watkins, Walnut, Ills. 12-2

PRIZE WINNING COLUMBIAN Wyandottes. A few choice hens, pullets and cockerels for sale. Booking orders for eggs. Miss M. Doll, Frankfort and Ewing Ave., Louisville, Ky. 1-3

COLUMBIAN WYANDOTTES exclusively. Choice stock for sale. Eggs and chix in season. Mating list free. Mrs. Jacob Gerig, Wayland, Iowa. 1-3

COLUMBIAN WYANDOTTES—Hatching eggs from prize winners and layers. R. C. Berkey, Salem, Ind. 2-4

COLUMBIAN WYANDOTTES—Michigan's champions; won more blue ribbons at leading state shows than all competitors combined. Type, color and quality. Prices very reasonable. Eggs from six exhibition matings, \$2 and \$3 per 15. Fertility guaranteed. Mating list free. Arthur Schaack, 605 Rohms Ave., Detroit, Mich. 2

COLUMBIAN WYANDOTTES—My birds won sweeping victory at Panama-Pacific Exposition—first cock, hen, cockerel, pullet. Also made great record Mountain Grove Laying Contest. Free booklet. Book egg orders early. J. O. Speed, 316 Chestnut, Webster Groves, Mo. 2-4

GOLDEN WYANDOTTES.

GOLDEN WYANDOTTES—First cock, first hen, first cockerel, second pullet, first young pen, Cleveland Show, 1916. Cockerels, pullets and eggs for sale. F. C. Liles, Collins, O. 2-4

GOLDEN WYANDOTTE EGGS from pen winners at 5 shows, \$2 per setting. W. F. Burkitt, Benton, Ill. 2-4

GOLDEN WYANDOTTES. Cockerels, chicks, eggs. Mrs. Anna Chase, Centreville, Crawford Co., Penn. 2-4

PARTRIDGE WYANDOTTES.

PARTRIDGE WYANDOTTES sent on approval that have the right color and penciling. Sold at a sacrifice. James Schrubbs, Urbana, Ohio. 12-2

PARTRIDGE WYANDOTTES. Just won the Coliseum show, Chicago, first cock, second cockerel on three entries. Fine lot of cockerels sired by winning cock. Eggs in season. W. W. Day, Janesville, Wis. 1-3

PARTRIDGE WYANDOTTE EGGS—Winning quality, \$2 per setting; reduction for larger quantities. James L. Coulter, New Wilmington, Pa. 2-5

PREMIUM PARTRIDGE WYANDOTTES—A superior strain of winners and layers. Eggs or chicks. Mating list ready. Perle Larue, Goshen, Ind. 2-4

SILVER WYANDOTTES.

SILVER WYANDOTTES. Tarbox strain. Choice stock reasonable. August W. Schroeder, St. Peter, Ill. 11

SILVER LACED WYANDOTTES exclusively. World's famous Tarbox and Steinmesch strains. Prize winners, great layers. Cocks and cockerels, \$2.00 to \$5.00; pullets, \$1.50. Satisfaction guaranteed. James Leggett, Hornsby, Ill. 12-2

SILVER WYANDOTTES exclusively. Good layers and well marked. Cockerels and pullets for sale at \$1 to \$3 each. Samuel Schroeder, Altamont, Ill. 1-4

SILVER LACED WYANDOTTE cockerels at \$3. Will score \$6 or better. Eggs for hatching, \$1 per 15. U. Guy Eby, Cassapolis, Mich. 1-3

SILVER LACED Wyandotte hens and cockerels for sale and eggs in season. Mrs. C. W. Whitham, Fairfield, Iowa. 1-3

SILVER LACED WYANDOTTES—Cockerels large and beautiful birds, some weigh 8 lbs. Eggs in season. Jacob Gottfried, New Washington, O. 2-4

FOR SALE—SILVER Wyandottes, winners of second pen, second cock, third pullet, in class of 44 at the Quincy Show. Send for circular. Albert Wiegmann, Quincy, Ill. 2

SILVER WYANDOTTES—Choice stock reasonable. Cockerels, \$1 and \$2. Eggs \$1 per 15; \$5 per 100. Mrs. Fred Schroeder, St. Peter, Ill. 2

SILVER PENCILED WYANDOTTES—Winter layers. Eggs guaranteed. Order early. Also Rose Comb Ancona eggs. References. C. Kelsey, Imlay City, Mich. 2-4

SILVER WYANDOTTES exclusively. Blue ribbon winners for 15 years. Illinois State show 1914, seven entries, 4 firsts; 3 seconds; 3 specials; champion hen. Heifrich Brothers, Hammond, Ill. 2-4

WHITE WYANDOTTES.

WHITE WYANDOTTES. Martin and Fishel strain. Choice stock reasonable. August W. Schroeder, St. Peter, Ill. 11

TELL US JUST WHAT you want in White Wyandottes and we will supply it. Marshall & Marshall, Box A, Niagara Falls, Ont., Can. 2

QUALITY WHITE WYANDOTES. Regal strain. Heavy layers. Eggs for hatching. Write for mating list. Satisfaction guaranteed. Prices right. H. R. Stevens, Hymera, Ind. 2-4

SPRING BROOK FARM White Wyandottes famous laying strain. Eggs from choice matings of splendid layers, \$1.50 per 15; \$8.50 per 100. N. E. Robart, Caledonia, Mich. 2-4

GRAND VIEW STOCK FARM has 75 White Wyandotte cockerels at \$2, \$3 and \$5. From prize mated pens, range raised, large, vigorous and yellow legs. H. M. Scholl, Bremen, Ohio. 1-3

WHITE WYANDOTTES. Utility stock standard breeders and exhibition birds. Prices reasonable. G. A. Haper, R. 8, Batchtown, Ill. 1-3

WHITE WYANDOTTE COCKERELS from heavy laying trap-nested hens. Penn. Poultry Farm. Poorman, Martin strains. \$2.50 up, depending on age and strain. Postal will bring photo. C. W. Zelle, Appleton, Wis. 1-2

WHITE WYANDOTTE cockerels and pullets, \$1.50 each. Wm. Shuler, Berrien Springs, Mich. 1-2

WELLS' WHITE WYANDOTTES; famous laying strain. Eggs from choice matings of splendid layers, trap-nested, \$2 per 15; \$3.50 per 30; \$5 per 50; \$9 per 100. Satisfaction guaranteed. M. G. Wells, Box 7, Sellersburg, Ind. 1-4

PURE BRED WHITE Wyandotte cockerels; selected standard qualifications from bred-to-lay, trap-nested stock. Three dollars up. Yearling breeding hens \$2. Guaranteed. C. H. Comstock, Morgan Park, Ill. 1-3

PETERSON'S SUPERB WHITE Wyandottes; great layers. Silver cup winners. Wm. Almon Peterson & Bro., Galesburg, Ill. 2-4

HIGH CLASS WHITE Wyandottes. Martin strain. Choice yearling stock and hatching eggs for early delivery. Wm. Remmert, St. Peter, Ill. 12-2

WINNERS, RECORD 228. Catalog. W. W. Kulp, Box 70, Pottstown, Pa. 12-2

"WINNEBAGO" WHITE Wyandottes. Famous world's best Fishel strain. Fine big cockerels for sale. Will improve the egg production of your flock. Also eggs for hatching. Albert March, Jr., Oshkosh, Wis. 12-2

WHITE WYANDOTTES, English strain. Oak Grove Farm, R. 34, Box A, Peoria, Ill. 12-2

WHITE WYANDOTTE pullets, \$1.25 each. Lawn Poultry Yards, Poneto, Ind. 2

THIRTEENTH YEAR—White Wyandottes exclusively. Farm range, pure white, standard weight. Eggs, 15, \$1.00; 50, \$3.00; 100, \$5.00. Stock in season. Mrs. O. Parmeter, Concord, Mich. 2-4

RUDY'S PERFECTION STRAIN White Wyandottes exclusively. Eggs from best matings, scoring not less than 91, \$2 per 15; \$4 per 50; \$8 per 100. Mrs. E. B. De Ment, Kenny, Ill. 2-4

REGAL DORCAS WHITE Wyandottes, bred to lay. Rare opportunity. Offer practically entire breeding stock, Cocks, Hens, Cockerels, Pullets; reduce plant account other business. Single birds, \$2.00 up; trios, \$5.00 up; pens, \$10.00 up. Satisfaction guaranteed. Order immediately. Edelweiss Poultry Farm, Sayville, N. Y. 2

WHITE WYANDOTTES. Duston; extra fine. Winners Indianapolis, St. Louis, 15 eggs \$3.00. Fine, pure white, range flock, heavy layers, 15 eggs \$1.00; 50, \$3.00; 100, \$5.00. Herbert Smith, Route 8, Bluffton, Indiana. 2

PRIZE WINNING WHITE Wyandottes. Official egg record of dams, 209 to 247. Eggs \$3.00 per dozen. Otto Greef, Pittsburg, Kansas. 2-4

WHITE WYANDOTTES. Maryland Beauty strain. Six years careful breeding for quality, size and heavy layers. Eggs for setting. Fertility tested before shipping. Prices on application. A. C. Hayden, Price, Maryland. 2

WHITE WYANDOTTES. Fishel strain. Eggs for hatching. Mating list free. Satisfaction guaranteed. Edw. C. Wiesenborn, Grand Chain, Illinois. 2-4

REGAL WHITE WYANDOTTES. Exhibition and Utility. Hatching eggs reasonable. Sidney H. Smith, 100 Oak St., Laconia, N. H. 2-4

WHITE WYANDOTTE eggs; from pens, \$2 per 15; utility flock, \$3 per 50, \$5 per 100. Birds are all snow white, yellow legs and beaks, true Wyandotte shape. Henry Walther, R. 3, Clinton, Indiana. 2-4

WHITE WYANDOTTES, bred to lay, extra good stock, carefully mated. Eggs, \$1.50 per 15; \$7.50 per hundred. Satisfaction guaranteed. E. E. St. Clair, Box 44, Downing, Mo. 2-4

WHITE WYANDOTTE EGGS. Individual records up to 100 eggs 135 days, mated to 200-egg cockerels. G. W. Schottmann, Montrose, Ill. 2-4

ROSEMOUNT WHITE WYANDOTTES win 1st young pen, 1st pullet, 2nd cock, 4th cockerel, Cleveland, 1916. Bargains in breeders. Catalog; illustrated. Franklin, Pa. 2

WHITE WYANDOTTES. Martin and Fishel strains. Eggs, \$5.00 per 100. J. Wolf, Wheeler, Ill. 2-4

WHITE WYANDOTTE cockerels. High class exhibition and utility stock. Bred from winners and will produce winners. Dr. Rolla Hook, Logan, Iowa. 2-3

WYANDOTTES—SEVERAL VARIETIES.

BEST COCKERELS TWO DOLLARS. Eggs and stock. H. F. Deer, Avenue N, South Chicago, Ill. 2

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SUMATRAS, ORPINGTONS, White Rocks. James A. Daley, Licensed Poultry Judge, Mohawk, Mich. 11-15-1 yr

SINGLE COMB BLACK Leghorn cockerels. Brothers to blue ribbon winner at Coliseum, \$3 to \$5. Black Leghorn and Buff Orpington eggs from prize winners, \$1.50 to \$2 for 15. Glen Echo Poultry Farm, 6500 Hamburger Ave., St. Louis, Mo. 2

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FOR SALE. Buff Orpington ducks, Buff and Brown Leghorns, Buff Rocks and Shetland ponies. Geo. H. Goyert, Batesville, Indiana. 12-2

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PREPAID \$1.25 PER 15 eggs. Circular free. Honest Deal Poultry, Eitzen, Minn. 1-3

WHITE FAVORELLES. Trios \$7.50. Buttercup, trios \$5. White Orpington cock, \$10. F. S. Johnson, Carterville, Mo. 1-2

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CLASSY WHITE ORPINGTON cockerels for sale. Aldrich strain, \$2 to \$5. Buff ducks. Cat. free. Morgan Bros., DeLand, Ill. 1-3

FOR SALE—PURE BRED Bourbon Red Turkeys. Toms, \$4.00; hens, \$3.00; if taken soon. Dark Cornish cockerels reasonable. C. Means, Preston, Minn. 2

CATALOG FREE. Variety of fine poultry, turkeys, geese, ducks, guineas, bantams, pups, hares, eggs, low. Book 6c. Pioneer Farm, Telford, Pa. 2-4

DARK BRAHMAS, BUFF and Partridge Cochins. Winners of first, specials for shape, color and champion prizes at the leading shows, including state show. Stock for sale. Eggs in season. Prices reasonable. H. C. Weinrich, Cambridge, Illinois. 2-4

60 VARIETIES PRIZE winning geese, ducks, turkeys, chickens, pea fowls, guineas. Stock and eggs cheap. Write wants. F. J. Damann, Farmington, Minn. 2-4

COCKERELS FOR SALE. \$3.00 and up. White Wyandottes and Single Comb Reds. High class exhibition and utility. Winners at the State Fair, Streator Fair and at the Quincy Show, 1915. Eggs in season, \$3.00 per 15, and up. Illinois State Reformatory Poultry Farm, Hector McAllister, Mgr., Pontiac, Ill. 2-4

ROSE COMB RHODE Island cockerels. White Indian Runner ducks, laying large white eggs, \$2.00. W. A. Thompson, Scottsburg, Indiana. 2

EGGS, 15, \$1.00; 40, \$2.00. Thorobred Rocks, Wyandottes, Reds, Leghorns, Hamburgs; 19 varieties. 35 years experience. Catalog. White Orpingtons, Houdans, Brahmas, 13, \$1.00; 30, \$2.00. S. K. Mohr, Coopersburg, Pa. 2-5

EGGS FROM CHOICE Black Reds, Silver Duck Wings, Red Pyles, Pit Games. Circular for stamp. Clark Price, Rochester, Mich. 2-4

ANCONAS, CAMPINES, R. C. Reds, Pekin ducks, Toulouse geese. New York, Chicago, Kansas City, Cleveland, Hagerstown winners in this year's pen. Emmett Pickett, Princeton, Mo. 2

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BABY CHICKS FROM my Young's strain Single Comb White Leghorns, bred for size, vigor and heavy egg production. Satisfaction guaranteed. Large orders filled. Catalog free. Holland Hatchery, W. Van Apple-dorn, Holland, Mich. 12-2

DAY OLD CHICKS and hatching eggs of real quality; full of vigor, vim, and vitality; with the ability to lay eggs bred into them. Hough Egg Farm, Box J. C., Far Hills, N. J. 2

CHICKS AND EGGS from our famous trapnested 200-egg strain Single Comb Anconas. Chicago winners, 1916. Catalog. Ancona Poultry Yards, Drawer 22, Glencoe, Illinois. 2

S. C. WHITE LEGHORN Baby Chicks. You positively cannot afford to place your order for baby chicks before writing for our illustrated book on the new up-to-date way. We raise them for you for the first twenty days at our expense. We tell how you can clear over \$11 per day on 500 of our pullets by next November. Positive proof. No fancy figures. It will pay you to investigate. Twelve years in perfecting one strain. Write now. Kerlin's Grand View Poultry Farm, Center Hall, Pa. 1-3

FIFTY THOUSAND STRONG CANDEE hatched S. C. White Leghorn chicks for sale from our Barron and Young strains. We are importers and breeders of English Leghorns. Mating list free. Devries' Leghorn Farm, Zeeland, Mich., Box 202. 1-3

PEDIGREED LEGHORN COCKERELS, \$4. Booking orders for eggs and chicks, April delivery. Leghorns \$11 per 100, Barred Rocks and R. C. Reds \$15. White Wyandotte hatching eggs. Free booklet. E. R. Hummer & Co., R. D., Frenchtown, N. J. 1-3

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CHICKS FROM SOME of the finest stock in the country. White and Brown Leghorns, Barred Rocks and Anconas. Prices right and safe arrival guaranteed. Catalog free. Wyngarden Hatchery, Zeeland, Mich. 1-3

BABY CHICKS, S. C. W. Leghorn Wyck-off strain, \$10 per 100. Strong and well hatched. Mature breeders. Eggs \$4 per 100. Satisfaction guaranteed. Clint Hesser, Winchester, Ind. 1-3

BABY CHICKS, S. C. W. and S. C. B. Leghorns, Barred Plymouth Rocks, Rose and Single Comb Reds. All from pure bred free range stock, at let-live prices. Colony brooders. Catalog free. The Houck Hatchery & Breeding Co., Desk 2, Tiffin, Ohio. 1-3

10,000 DAY-OLD CHICKS. Corning and Young strain S. C. White Leghorns, February and March hatched, \$15 per 100. Satisfaction, safe and full delivery guaranteed. Send orders now. Ravenswood Poultry Farm, 3357 Foster Ave., Chicago, Ill. 2-4

THE CRYSTAL HATCHERIES are now hatching chicks. We will have thousands of White Leghorns, Brown Leghorns, White and Barred Rocks, Rhode Island Reds, White Wyandottes and Orpingtons for March, April and May delivery. If you want chicks that have egg records behind them we will book your order free of charge. Thousand lots our specialty. Information free. Chicago office, 300 West Van Buren Street, Chicago, Ill. 2-4

BABY CHICKS, 8c and up; expressage paid; 10 varieties. Order now for early delivery. Sale sheet free. Fine stock. South Kenton Poultry Farm, Kenton, Ohio. 2-5

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PEERLESS CHICKS are easy-to-raise, sure-to-live. Shipped successfully anywhere. Satisfaction and safe delivery positively guaranteed. Leading strains of Leghorns, Plymouth Rocks, Rhode Island Reds, Wyandottes and Orpingtons, 10c up. 50c book on raising chicks free to all customers. Write for descriptive literature. Peerless Hatchery, 4537 S. Sacramento, Chicago, Ill. 2-4

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WHITE RUNNER DUCKS. Good young stock. Satisfaction guaranteed. C. & N. Cleaves, Box C, Timewell, Ill. 12-2

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TOULOUSE GEESE. Choice stock for sale cheap. Springbranch Poultry Farm, Bellville, Ohio. 12-2

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AMERICA'S BEST Breeding Giant Bronze Turkeys. See our advertisement on page 352. 2-15-1f

BOURBON REDS of choice quality ready for delivery. Show winners. G. W. Wilson, Trimble, Illinois. 12-2

MAMMOTH BRONZE TURKEYS. Prize winners, large size, finely marked, strong, vigorous birds. Prices low, quality high. Satisfaction guaranteed. Circular free. B. F. Morgan, Independence, Ind. 12-2

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MAMMOTH BRONZE TURKEYS, big bone and fine markings. Card will bring prices and particulars. Otto Motry, Kansas, Ohio. 1-3

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PURE WHITE HOLLANDS for sale. Satisfaction guaranteed. Bert Funkhouser, Ridgeville Corners, O. 2-3

TEN DARK BOURBON Red turkey eggs, \$3. Mrs. Lewis Stolte, Hannibal, Mo. 2-4

FOR SALE—THOROBRED White Holland turkeys, Fawn and White Runner ducks. Mrs. Carl Hudson, Kalamazoo, Mich., R. 2. 2

AMERICA'S LEADING WINNERS in Giant Bronze Turkeys and Partridge Plymouth Rocks. See our adv. on page 352. 2-1f

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WANTED—5,000 COMMON or Homer Pigeons. Pay at least 25c pair. Market Poultry wanted. D. Gilbert, 1128 Palmer St., Philadelphia, Pa. 1

BELGIAN CARNEAUX PIGEONS, breed fastest, raise largest squabs. Free booklet. C. D. Hevenor Company, Tonawanda, N. Y. 2

WHITE FANTAILS and Carneau pigeons at reasonable prices. Arthur Groh, Freistatt, Mo. 2

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"PHEASANT FARMING," an illustrated, practical booklet on pheasant rearing, postpaid 50 cents. Circular, all necessary pheasant equipment, free. Simpson's Pheasant Farm, Corvallis, Ore. 1-3

GOLDEN PHEASANTS. Large, healthy birds. Stamp for prices. Satisfaction guaranteed. Geo. Kraning, Peru, Ind. 1-3

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WHITE GUINEAS. \$1.00 each. C. E. Beeman, Oswego, Kans. 1-3

WHITE AFRICAN GUINEAS. \$2.50 pair. C. Colter, Rock Creek, Ohio. 2

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PEDIGREE BELGIAN HARES. Flemish Giants and Lopears, German Grays and Spotted Flemish. Imported stock. Park View Rabbitry, 21 Williams St., Poughkeepsie, N. Y. 12-2

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Breeding Cockerels, Pullets and Breeding Hens, Day Old Chicks, Six Weeks Old Chicks, Eggs for Hatching, Custom Hatching

After 10 years of Successful Breeding for Egg Production, Stamina, and Size, the quality of the Corning Egg Farm Leghorn today is such that you cannot afford to even consider the purchasing of Cockerels, Pullets, Hens, Chicks or Eggs, until you have first written to us.

The aim of the Corning Egg Farm is to assist you to success. Write us freely and fully. We gladly give your letter our personal attention, with the benefit of our years of experience. Visit the Farm, we'll be glad to see you. Write for particulars of our Unique System of Instruction in Egg Farming, compiled to satisfy a demand—not to create one. All phases of the subject taught by men who know and have demonstrated in practice the success of every principle advocated and word of instruction given. Reference Book and Lesson Sheets become your personal property to retain for future use. Cost is less than you may lose by one little mistake in incubating, brooding or feeding and handling your birds. Marks a distinct advantage in Poultry Education and a plain path to success.

For Corning Celebrated Chick Food, Dry Mash and Immunity Mixture, write us for the name of our nearest distributor.

Corning Egg Farm, Inc.

Bound Brook, New Jersey

Rankin's Reds

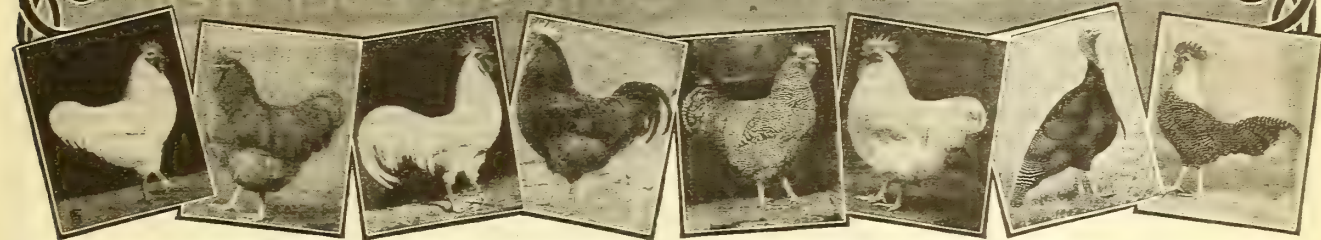
Have won at ALL the LEADING SHOWS in the COUNTRY.

We have the birds that are winners and will breed you winners. Birds for sale, from \$3.00 each, up. All birds shipped on approval. Let us quote you price on what you desire. SEND for FREE MATING LIST.

BABY CHICKS
For Sale

SCHENLEY HEIGHTS POULTRY FARM 1202 Commonwealth Building Box 1 Pittsburgh, Pa.

ILLUSTRATED BREEDERS CARDS



RATES for Illustrated Breeders' Cards: 40-word card, with small sized illustration (to be furnished by us), \$2.50 per month for less than one year; \$24 per year, payable quarterly in advance. Words in excess of forty, seven cents extra per word per month. Numbers and initials count as words. **Copy for advertisement plainly written, should reach this office by the 15th of month preceding date of issue.** In answering these ads. please mention A. P. J.



log free.

BABY CHICKS, 10c to 15c. Stock, \$1.50 up. Eggs, \$5 to \$6 per 100. Reds, Rocks, Wyandottes, Orpingtons, White Leghorns, Toulouse geese, Pekin and Runner ducks, Red turkeys, New Zealand and Pet rabbits. Catalog free. G. A. Mitchell, Freeport, Ill. 2-16-1yr



treated right.

DARK CORNISH of the highest breeding. Old and young stock for sale. Single birds, pairs, trios and pens. Reasonable prices. Every bird from superb imported stock. Satisfaction or money back. You shall be treated right. T. D. Moore, Hopkinsville, Kentucky. 12-15-1yr



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BABY CHICKS from Barred Plymouth Rocks, S. C. White and Brown Leghorns. Chicks all hatched in Cyphers Standard machines and from free range best utility stock. Satisfaction guaranteed. Circular free. Cyphers Hatchery, Box A, Route 2, Richfield, Pa. 2-3



treated catalogue mailed for 4c.

FIFTY VARIETIES OF FINE thoroughbred poultry. Cochins, Brahmas, Langshans, Rocks, Wyandottes, Houdans, Orpingtons, R. I. Reds, Leghorns, Polish, Hamburgs, Spanish, Ducks, Turkeys, Geese, Incubators and Brooders. Large illustrated catalogue mailed for 4c. C. M. Atwood, Box A7, Dundee, Minn. 8-15-1f



guaranteed.

MAMMOTH BRONZE TURKEYS and Barred Plymouth Rocks. Nothing but the best in both varieties. Can supply you with either winners or breeders at reasonable prices. Write me for prices at once. Satisfaction guaranteed. Miss Sallie Cox, R. 1, New London, Mo. 8-15-1 yr



Collier has them.

BUY a Pacific Coast Buff Rock. Collier has them. I can send you cockerels or pullets that will help your yards. Eggs, \$3 to \$10. Send for circular. Harry H. Collier, Tacoma, Washington. 11-1f



WHITE WYANDOTTES.

Do you want a strain that has been bred to lay and win for over ten years? If you do, write me just what you are in need of. Illustrated catalog free. Snow Drop Poultry Farm, Mystic, Iowa. 2-16-1yr



brood chix.

S. C. W. LEGHORNS ONLY. Chix and hatching eggs from trap-nested stock. Four grand pens mated. Large orders solicited. 1,400 breeders. Can make good proposition on brooder stove if you intend to brood chix. Catalog free. Address Polo Leghorn Farm, Box 441, Polo, Ill. 12-15-1yr



100. Fred Co., Ohio.

BARRED PLYMOUTH Rocks, S. C. R. I. Reds, Cockerels, good breeders. \$2.50; extra choice, \$5.00. Eggs from mated pens, \$2.00 per 15; \$3.25 per 30. Utility pens, \$1.25 per 15; \$2.00 per 30; \$3.25 per 50; \$6.00 per 100. G. Keller, Millersport, Fairfield Co., Ohio. 1-3



Washington, Ohio, Dept. A.

DAY OLD CHICKS for sale, 11 varieties; thousands per week; hatched by one of the oldest hatchers in the country, means strong healthy chicks; our 13th year of shipping. Circular free. Old Hens' nest Hatchery, New Washington, Ohio, Dept. A. 2-1



terriers, at stud Western Defiance.

EXHIBITION AND HIGH class utility White Leghorns, White Wyandottes, White Cochins Bantams. Maywood Whites are white. Eggs for hatching, breeding stock, baby chicks. Write for catalog. Registered Airedale terriers, at stud Western Defiance, Maywood Poultry Farm, Box E, Anchorage, Ky. 1-16-1yr



in my free Dougherty,

WHITE ORPINGTON Baby Chicks from 200-egg record layers. Strong, husky, vigorous chicks that live and thrive, filling the egg basket next winter. Some grand egg records and trap-nested pens to choose from mating list. Write today. T. P. R. 102, Tyrone, Pa. 2-1



Studer, Mgr., New Washington, Ohio, Box 83.

BABY CHICKS of quality, hatched from best utility and fancy stock on free range. Safe arrival guaranteed. Eggs for hatching. Nine years of actual experience. Catalog free. New Washington Hatchery, Fred A. Washington, Ohio, Box 83. 2-1



Show. Free circular.

TODD'S SHOW YOU STRAIN of White Wyandottes is the only strain in the world to win in two laying contests and good enough in exhibition quality to win Missouri State cup for best display at 1915 Missouri State Show. Free circular. S. L. Todd, Green Forest, Ark., Route 1. 8-15-1yr



Warren, Ohio.

SINGLE AND ROSE COMB Anconas, Golden Wyandottes, bred-to-lay strain. Eggs and baby chicks at living prices. Winners at Madison Square, Crystal Palace, Cleveland and Pittsburgh. Write for folder. C. H. Mills, 2-16-1yr



36 YEARS A BREEDER of Dark Brahmas;

25 years a breeder of Barred Plymouth Rocks. Stock and eggs for sale. Eggs from my prize winners, \$3 per setting. C. A. Ballou, 24 Lee St., Worcester, Mass. 2-1



White Leghorns, Buff and White Wyandottes.

MY ROSE COMB BLACK Minorca pens are headed by first cock Cleveland International Rose Comb Black Minorca Club Meet, 1916, second cock Hagerstown, third cock Ohio State Fair, utility pens. S. C. B. Minorcas, Dan C. Meek Farm, Coshocton, O. 2-16-1yr



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DAY OLD CHICKS for sale, 6 varieties; thousands per week, pure bred and utility stock; hatched by an experienced hatcher means strong healthy chicks; our 7th year of shipping. Circular free. F. J. Stude, New Washington, Ohio, Dept. A. 2-1



hen, specials best shape and colored male.

S. C. WHITE ORPINGTONS. Closing out my entire flock, including my winners last two years; very reasonable. Ribbons go with birds. Won Madison, 1916, 1st, 2nd cock; 1st, 2nd, 3rd cockerel; 2nd, 5th pullet; 4th cockerel. Chas. King, Madison, Wis., 1330 Dewey. 2-1



Scottsville, Kansas, Sunflower Hatchery.

BABY CHICKS from pure bred Barred Plymouth Rocks of quick growth and heavy laying strain. Chicks, \$10.00 per 100. Eggs from same breed at \$1.50 per setting of 15. Satisfaction guaranteed. Mrs. W. F. Cristman, Scottsville, Kansas, Sunflower Hatchery. 2-1



Send for mating list.

FARNUM S. C. BUFF Leghorns. At Coliseum, Chicago, December, 1915, where the foremost breeders of Buffs were gathered, under a Buff judge of national reputation, we had nine birds under ribbons out of ten entered. H. Lester Farnum, St. Joseph, Mich. 2-1



\$3.00 each.

ROSE COMB REDS exclusively. Won first prizes at three fairs and one show, 1915. Fifteen eggs from pen 1, \$3.00; 30, \$5.00; pen 2, \$2.00; farm range, \$1.00. \$4.50 per 100. Good fertility guaranteed. Choice cockerels, James D. Pace, Route 6, Mt. Vernon, Ill. 2-1



breed wanted.

BABY CHICKS for February shipments. S. C. Rhode Island Reds, Buff Orpingtons, White Orpingtons, Barred Rocks, White Rocks, S. C. White Leghorns. Guaranteed safe arrival 2,000 miles. Write for circulars; name eggs for hatching. Martin Michelson, 232 5th St., Aurora, Ill. 2-1



catalog free.

64 VARIETIES PURE-BRED chickens, ducks, geese, turkeys, guineas, bantams, guinea pigs, Belgian hares and dogs. Farm raised stock for sale at lowest prices. Satisfaction guaranteed. Write your wants. 64-page catalog free. H. A. Souder, Box A, Sellersville, Pa. 12-15-1yr



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SINGLE COMB BUFF Orpingtons. I offer eggs at \$2.00 per setting from all pens. Every pen headed by show bird. Winners will show their merit. Send for mating list. It is free. Stock for sale J. C. Forrest. 1-3



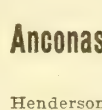
Hatchery, Box A, Freeport, Mich.

CHICKS. We have shipped thousands each season since 1904. Anconas \$11, Leghorns \$9, Reds \$12 per 100. Few good Silver Campine cockerels left at reasonable prices. Free booklet and testimonials. Freeport Hatchery, Box A, Freeport, Mich. 2-1



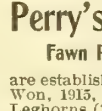
M. Buchtel, Ohio.

EGGS for Hatching FROM IMPORTED GOLDEN Campine, Single Comb Black and White Minorcas. Single Comb Brown Leghorns, both pullet and cockerel line, and White Wyandottes from laying strain. Eggs for hatching. C. Jackson, Box M, Buchtel, Ohio. 5-15-1yr



Hendersonville, Tenn.

S. C. ANCONAS. I am better prepared than ever before to furnish selected eggs for hatching. Three fine yards. Prices, \$1.00 and \$1.50 per 15; \$5.00 and \$7.50 per 100. Special matings, \$2.00 per 15. W. L. Kirkpatrick, Hendersonville, Tenn. 2-1



LOUIS H. PERRY, Route No. 8, CLAY, NEW YORK

Perry's R. C. White Leghorns Fawn Runner and Colored Muscovy Ducks

are established strains as layers and exhibition birds. Won, 1915, New York State Fair, Champion Male in Leghorns (37 males); Champion Runner Drake (34 drakes); Champion Duck (58 ducks). Grand stock for sale at prices you can afford to pay. Free Circular.

LOUIS H. PERRY, Route No. 8, CLAY, NEW YORK



(Loudoun Co.) Apple Road

White Cornish MOUNTVILLE FARMS

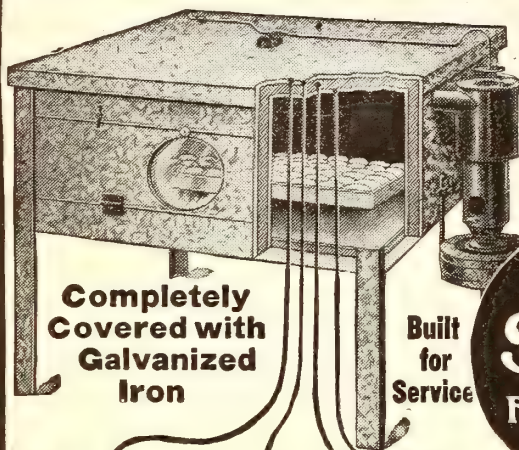
MOUNTVILLE, VIRGINIA

Ironclad

TRADE MARK

Wins in the Two BIGGEST HATCHING Contests Ever Held

Why take chances with untried machines when for only \$10 we guarantee to deliver safely, all freight charges paid (East of the Rockies) BOTH of these big prize winning machines fully equipped, set up ready for use? Why not own an Ironclad—the Incubator that has for two years in succession won in the GREATEST HATCHING CONTESTS EVER HELD? In the last contests conducted by the Missouri Valley Farmer and Nebraska Farm Journal, 2,000 Machines were entered, including practically every make, style and price. With 140 Egg Ironclad—the same machine we offer with Brooder, freight paid, for only \$10, Mrs. C. F. Merrick, Lockney, Texas, hatched 148 chicks from 148 eggs in last contest.



We Give 30 Days Trial —Ten Years Guarantee

You have nothing to risk. We will send machines—let you use them 30 days—urge you to compare them in quality of material, hatching ability, workmanship and price—and if you don't find them satisfactory, send them back—we'll pay the freight charges and return your money. You are absolutely safe. We have to do as we advertise. If we didn't the publishers of this paper would not carry our advertising.

Both
for
\$10
Freight Paid
East of Rockies



This Book
Sent FREE

It tells how Ironclads are made and why they win in the Big Hatching Contests.



140 EGG INCUBATOR CHICK BROODER

When an incubator is constructed of material of this kind it gives you the strongest and most durable incubator that can be made—a machine that will not warp or shrink, or open up at the seams, as every joint is lapped over with our galvanized iron covering—giving you a machine that will last a life time. Don't class this big, all-metal-covered dependable hatcher with cheaply constructed machines. Ironclads are not covered with tin or other thin metal and painted, like some do to cover up poor quality of material. Ironclads are shipped in their natural color—you can see exactly what you are getting. Don't buy any incubator until you know what it is made of. Note these Ironclad Specifications: Genuine California Redwood, triple walls, asbestos lining, galvanized iron covering. Galvanized iron legs, large egg tray, extra deep chick nursery—hot water top heat, copper tanks and boilers, self regulator, Tycos Thermometer, glass in door, complete book of directions, and many other special features fully explained in free catalog. Write for it today or order direct from this advertisement and save time.

IRONCLAD INCUBATOR CO., Box 49

Racine, Wis.

Read the announcement of "A Revolution in Egg Production" on page 208. A book on an entirely new subject.



BRADLEY BROS., LEE, MASS.

Barred P. Rocks

We Bred and Raised Hold Their Place as
FIRST WINNERS

OUR RECORD:

At Madison Square Garden: 4 Firsts, 4 Seconds, 3 Third Prizes, besides other awards have been won by us at a single Madison Square Garden Show. Three times have Males of our breeding won 4 of the Five prizes offered in the class including firsts.

No other exhibitor has ever won THREE FIRST PRIZES at a Madison Square Garden Show where we competed.

The highest cash price ever actually paid for a B. P. Rock so far as has come to our knowledge was given for a male we bred and raised.

29 of our "Lee Belle" Females have been First Winners at Madison Square Garden Shows alone, and 60 Winning Males at Madison Square Garden Shows have been bred by us.

Many birds have been sent by to us customers in England, Russia, Japan, South Africa and other Foreign Countries. They arrive safely and give good satisfaction.

50 Selected Breeding and Show Cock Birds and 1000 Fancy Specimens, Males and Females, For Sale. Ringy, blue-tinged, sharp barred birds from our best pens. We never had a finer lot of birds for every demand. Price list free. EGGS FOR HATCHING from Best Lot of Breeders we ever owned, \$10 per 12; \$20 per 26; \$25 per 33; \$67 per 100. These will produce winners. We do not sell baby chicks. Illustrated circular free.

BRADLEY BROS., Box 909, LEE, MASSACHUSETTS

The Safest Way to Send Eggs

**Positive
Protection**



See that Air Chamber?

**"Ask the
Judges"**

Andrews' Efficiency Egg Carriers

Guaranteed to be the safest carriers you can buy. They protect every egg, prevent customers' complaints and stop allowances for breakage. The Hatching-Egg Carriers come all in one piece (top and bottom) and have double sides and ends which ease all jolts. Eggs stand on end. No special fitting to put box together. Gummed address label with every Hatching-Egg Carrier.



Andrews' Efficiency Koop

"The coop without a nail." Top and bottom held by steel rods with pins at ends. No hammer needed. Come knocked down. Light—save express charges. Can be used over and over.

LOW PRICES

Single Koop, \$3.00 half doz.
Pair or Trio, 4.00 " "
Pen, 4.50 " "
Shipped only in half dozen lots.

Hatching-Egg Carriers

15 Eggs, 95c per doz.
30 " \$1.60 " "
50 " 2.25 " "
100 " 4.20 " "
Shipped only in lots of two dozen,
each size.

Commercial Egg Carriers

One Doz. Size, 50c per doz.
Two " " 80c " "
Three " " \$1.10 " "
Four " " 1.35 " "
Five " " 1.60 " "
Ten " " 3.10 " "

Get my low prices on Baby-Chick Boxes

For Sale by Dealers Everywhere

ANDREWS PAPER BOX COMPANY, O. B. ANDREWS, Pres.

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All Goods F. O. B. Chattanooga



S.C. WHITE LEGHORNS

ROSEDALE·EGG·FARM·PORT HURON·MICH.

Day Old Chicks, 6 to 8 Weeks Old Chicks, Cockerels and Eggs from Trap-nested Females with Big Egg Records

English Bred Birds (Barron's Strain). Also day old Chicks from fine Rhode Island Red and Barred Rock stock.

CARNEAUX PIGEONS, the Prolific Squab Breeders

Write for Catalog and Prices



WHITE PLYM. ROCKS

NEW YORK PALACE SHOW WINNERS

"WHITENED ON BLUE GRASS RANGE"

Make new New York record by winning all five first prizes and 1-2-3-4-5 pens, with 14 pens competing; besides winning 1-2 cock, 1-4-5 hen, 1-2 cockerel, 1st pullet. Our birds also won several specials. They also won at Louisville and the Kentucky State Fair 6 first, 4 second, 4 third, 2 fourth and 4 fifth prizes this season.

18 SELECTED MATINGS

All headed by and containing one or more winners. Eggs for hatching, \$1.00 each. No stock for sale until fall.

"BELLA VISTA" FARM

LEWES P. DOERHOEFER, Prop.

Dept. A, Anchorage, Ky.

Leghorns, White, Brown
White Wyandottes
Silkies, Barred Rocks
1916 Cleveland Winners

ROSEMONT

EVER-BETTER FANCY FOWLS

Pekins, Runners, Muscovies
See Classified Ads
1916 Mating List

FRANKLIN • PENNA.

E. B. Thompson's Imperial Ringlet Barred Plymouth Rocks

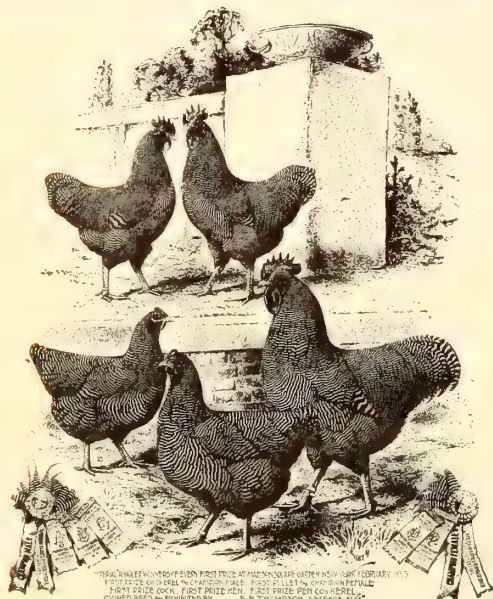


Win at the Imperial Show
of all the World

Madison Square Garden



New York, December 31, 1915 to January 5, 1916



Winners of every first prize offered at Madison Square Garden, New York, February, 1915—first cock, first cockerel, first pullet, first hen and first pen cockerel.

The following matchless record:
All the Ribbons and Prizes offered on
Cocks, Cockerels, Pullets and Exhibition
Pens, viz:

Cocks	1st, 2nd, 3rd, 4th and 5th
Cockerels	1st, 2nd, 3rd, 4th and 5th
Pullets	1st, 2nd, 3rd, 4th and 5th
Exhibition Pens,	1st, 2nd, 3rd, 4th and 5th

The President's Silver Cup for Best Display.

The Imperial Prizes of the Show, Sweepstakes Special for Champion Male and Sweepstakes Special for Champion Female.

Special for Best Shaped Male. Special for Best Shaped Female.
Special for Best Colored Male. Special for Best Colored Female.

Diploma presented by the American Poultry Association for Best Cockerel.

Specials for Best Cockerel and Pullet, Best Cock and Hen, Best Three Cockerels.

Every Silver Cup and Special Prize awarded. More First, Regular and Special Prizes than any exhibitor of any breed.

Madison Square Garden is the Recognized Pre-Eminent Quality Show of all America—it is the Center of a System Around Which All Other Shows Revolve.

My exhibit of 100 birds of supreme quality is an achievement hitherto unknown in the entries of Poultry Shows—unequaled in the annals of Barred Rock history.

The amazing records of all the prizes offered on Cockerels, viz: 1st, 2nd, 3rd, 4th and 5th, the last 3 years in succession; of all Prizes offered on Pullets, viz: 1st, 2nd, 3rd, 4th and 5th, for the second time at New York; both Sweepstakes Champion Male and Sweepstakes Champion Female for the third time at one and the same Show in Madison Square Garden, declares the Imperial "Ringlets" have reached the summit of superior excellence.

**If You Want the Best in Barred Rocks You Must Have My Imperial "Ringlets."
My Customers Are My First Thought and Nothing Is Too Good for Them.**

Grand exhibition and breeding birds of this richest First Prize New York blood for sale at reasonable prices.

Elegant Catalog Upon Request.

EGGS from the finest exhibition matings in all the world, \$10.00 per setting; four settings \$35.00; one hundred eggs \$60.00.

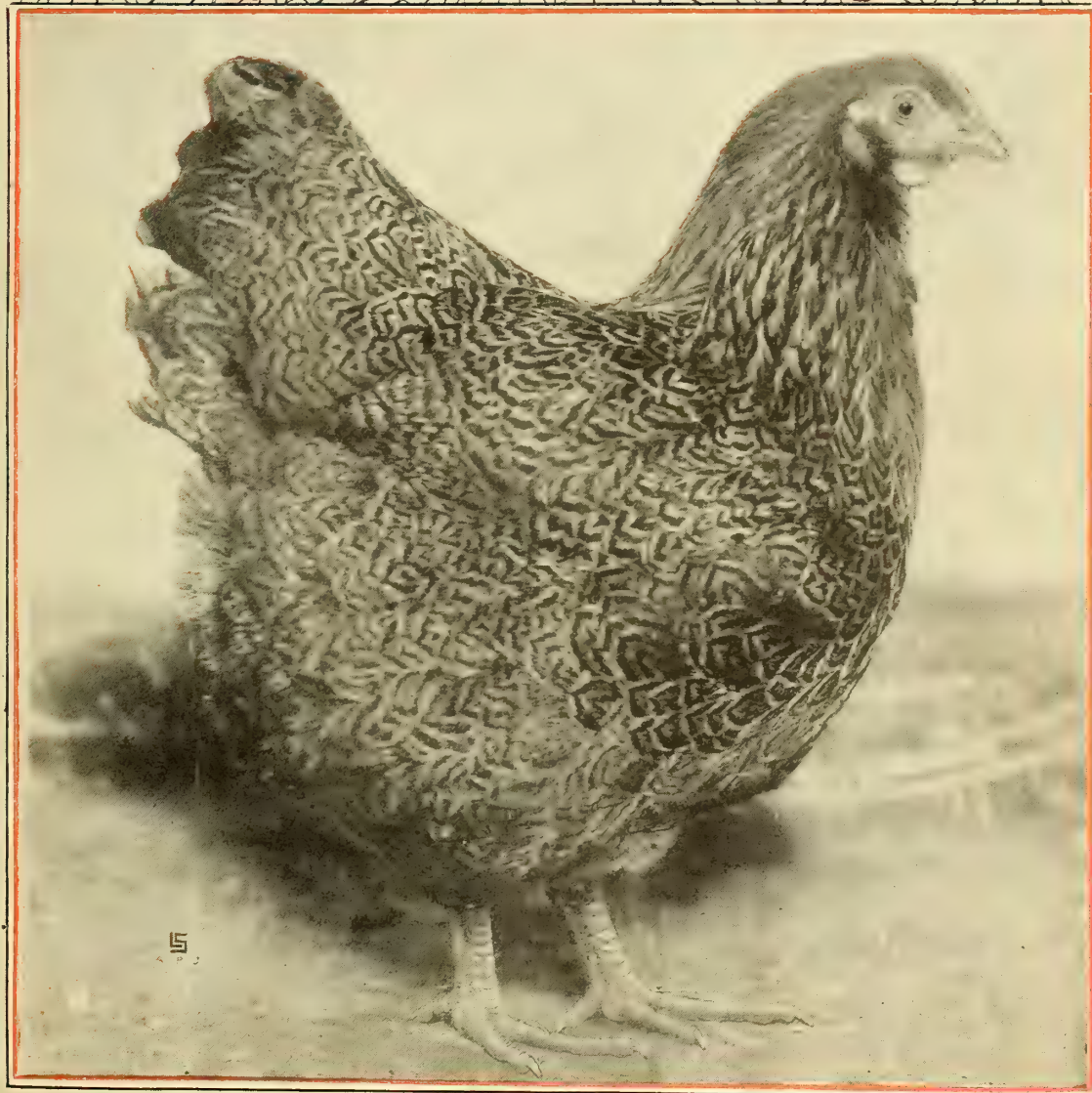
E. B. Thompson

Lock Box 510, AMENIA, N.Y.

SEE MY OTHER ADS ON PAGES 282 and 283.

AMERICAN POULTRY JOURNAL

"WE LEAD - OTHERS FOLLOW"



Let Poultry Experts Tell You the Secret

HERE are a few expressions from Poultry Experts whose names and winnings are known to poultry raisers everywhere. They represent the highest success in every poultry line—show birds, market birds, layers.

Charles Thorgren: "Red Comb is the best conditioner I ever saw. I have fed Red Comb for more than eight years."

Mrs. J. H. Harnly: "The high honors accorded my birds proclaim loudly the excellent conditioning value of your Red Comb Feed."

J. E. Young: "Red Comb makes the hens lay and keeps them in the pink of condition."

C. E. Reed: "My five White Plymouth Rock hens in the International Egg Laying Competition were the heaviest laying pen of White Plymouth Rocks ever recorded in competition. They were raised and conditioned on Red Comb."



28 Eggs per Hen In One Month

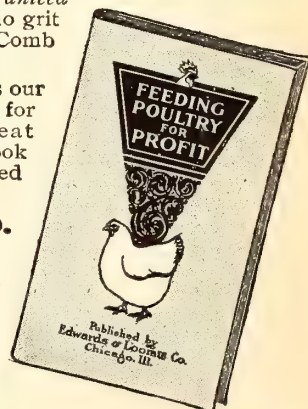
W. H. Hardin's pen of sixteen S. C. White Leghorn pullets, fed on Red Comb, averaged 28 eggs apiece during December. He writes: "Red Comb feeds are giving excellent results."

Red Comb is a scientifically balanced ration—ground from the finest whole grains—mixed by experts—backed by 45 years' experience. Red Comb contains the minimum of grit. Percentage guaranteed on each bag. Made with no grit if preferred. Feed Red Comb and join the profit makers.

Your name on a postal brings our free book, *Feeding Poultry for Profit*, written by six great poultry experts. With the book we will send name of the Red Comb dealer nearest you.

EDWARDS & LOOMIS CO.
344-M N. Elizabeth St.
CHICAGO, ILL.

Also Manufacturers of the Famous Line of Red Horn Dairy Feeds



"Red Comb Means Health"

Red Comb

How to Make More Money from Poultry—with Anconas

"Next!"

Told in the new "Sheppard" Book—first copies of which have just been delivered by printer. *Send the coupon or write for a copy now.*

Are you breeding Anconas? Then you need this book. It tells how to make the most money from them—how to feed and care for them—the experiences of hundreds of Ancona enthusiasts. *Your copy is free.*

Are you breeding some other strain? Then you, too, should have my book. It will help you even if you don't buy Anconas. And it will show you how to make more money by changing to Anconas. Yes, it's chuck full of facts—and pictures—that's all.

Are you *planning* to raise a few, or many chickens? Then this free book will be worth its weight in dimes to you. Remember, I tell you what *others*, like yourself, are making from Anconas—in egg money, selling stock, exhibiting, etc. By all means get this book.

Do you want fresh eggs for home or market? Do you want to increase your profit from eggs? Do you want to start a Poultry Farm? Are you a student of poultry matters? Do you want winning stock? Or Eggs for hatching?

This book does not tell *everything*—well I should say not!—but it's bulging with so many worth-while facts, wrested from the experience of many people, that it will be mighty profitable reading—and it is free.

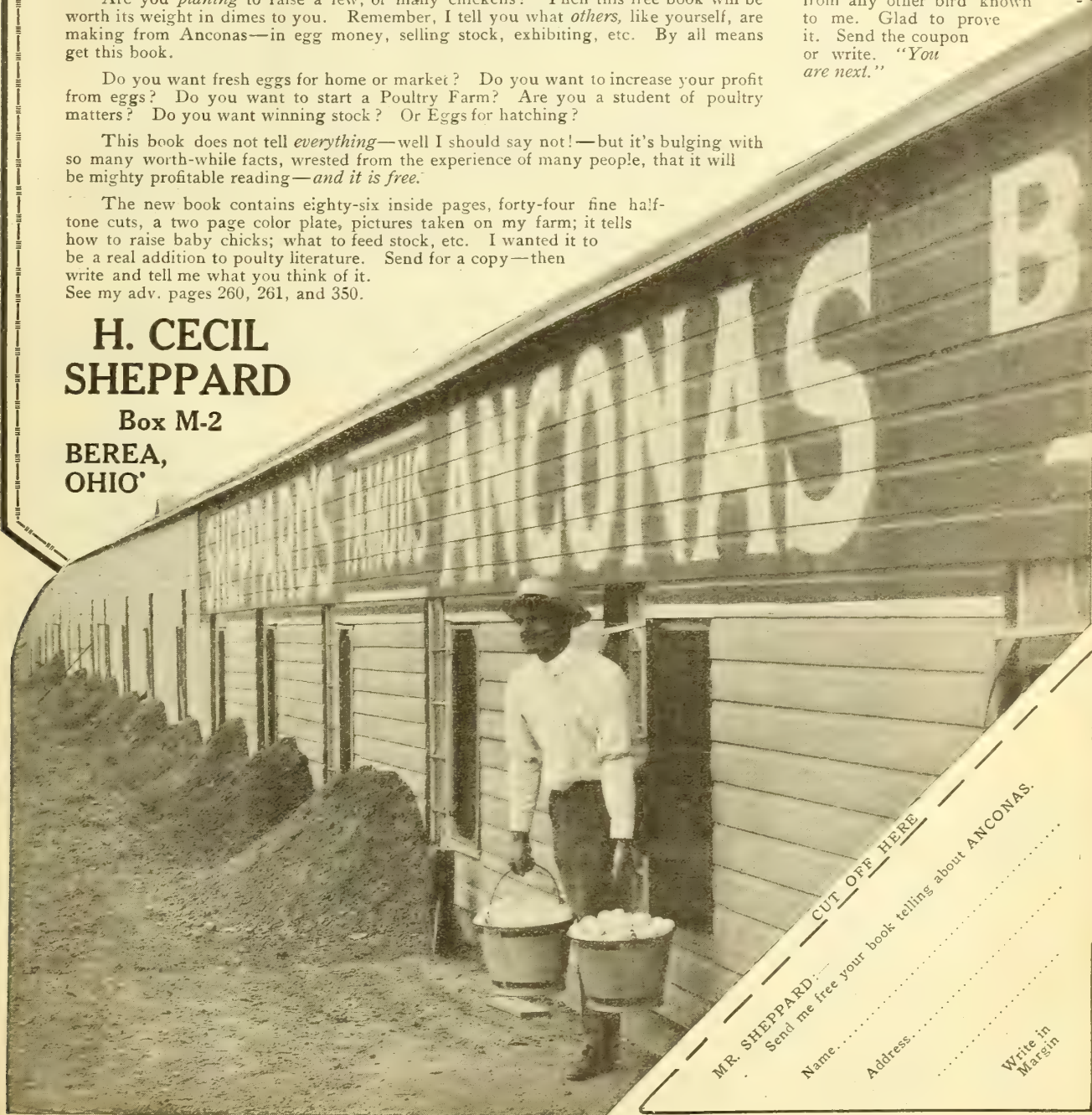
The new book contains eighty-six inside pages, forty-four fine half-tone cuts, a two page color plate, pictures taken on my farm; it tells how to raise baby chicks; what to feed stock, etc. I wanted it to be a real addition to poultry literature. Send for a copy—then write and tell me what you think of it. See my adv. pages 260, 261, and 350.

**H. CECIL
SHEPPARD**

Box M-2

BEREA,
OHIO

Well, I didn't mean to take you by surprise—popping out of a window that way—but here I am! No, this isn't all we get in one day. No, I don't often gather the eggs—but my photographer insisted that I "pose" for this. By the way, this is one of the 44 pictures in my new book. EGGS? Yes, you can get them at a lower cost from ANCONAS than from any other bird known to me. Glad to prove it. Send the coupon or write. "You are next."



CUT OFF HERE

MR. SHEPPARD—
Send me free your book telling about ANCONAS.

Name.....

Address.....

Write in
Margin

Columbian Plymouth Rocks

Eggs, Day-Old Chicks and Stock from our winners at Madison Square Garden and Palace and sons of "Columbia Queen," champion heavy-weight hen, record 286 eggs. Mating list free. Mention A. P. J.
T. J. ENSLIN HACKETTSTOWN, N. J.



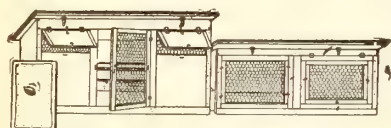
EPHESIANS 4th CHAP. and 24th VERSE

**WE WANT
YOUR BUSINESS**

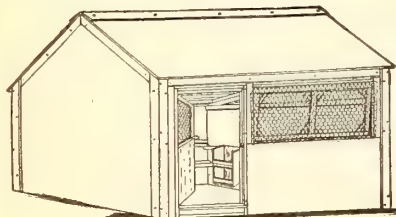
"Wherefore putting away lying, speak every man truth with his neighbor." Believing in practicing what we preach and as followers of the True Ad Club, to any would-be purchaser of our fowls or eggs we beg to state: We have no hens that are egg machines, or that lay 365 days in the year, or lay every week day and twice on Sunday, or hens that we will sell you for \$1.00 that lay \$50.00 worth of eggs in a year. If this is what you want, write the other fellow who specializes in these perpetual motion females. We care nothing about egg records and believe less that we hear about them. None of our females ever had to have a surgeon insert a silver tube in lieu of oviduct caused by being worn out working overtime laying. We are lovers and breeders of the beautiful and exhibition, as shown by our winnings at Panama-Pacific International Exposition, Palace Show and other places. We have no hankering after the utility or the business of the utility buyer—our experience has been he wants to buy for less than the huckster will pay. The class of stuff we offer for sale we do not advise the widow, afflicted and poor, to buy. "They have more of posterity than of prosperity." We have frankly stated our position; if it appeals to you, send us 30 cents in stamps for our New Colorotype catalog of S. C. Buff and Blue Orpingtons, R. I. Reds, Houdans, White Runner and other Ducks, White African Guineas, Peafowl, Japanese Longtails and Silkies, Wild Turkeys, 16 varieties of Pheasants. If catalog is not worth the money, return in 48 hours after receiving and we will refund price. We charge for catalog to protect ourselves against catalog fiends.

CHILES & CO. - MT. STERLING, KY.

P. S.—We just won at Cornell University Egg Show Contest, third prize on Orpington eggs, possibly not so bad for fancier breeder.



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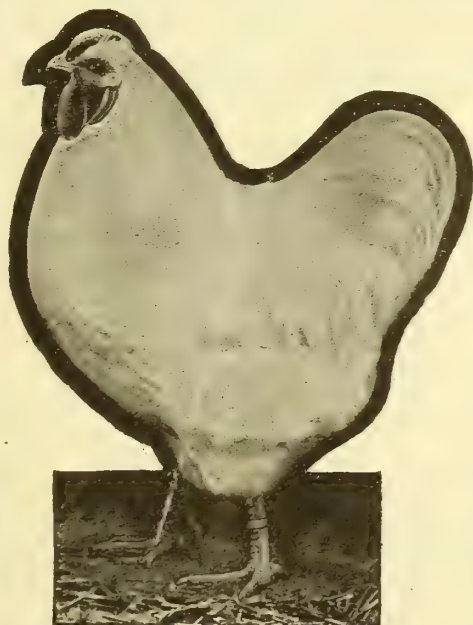
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TABLE OF CONTENTS

	PAGE		PAGE
F. M. Clemans—Pioneer Poultryman.....	419	Breeding S. C. W. Leghorns.....Mrs. Robt. West	488
Successful Hatching With Incubators.....		Recent Inventions for Poultrymen.....Lester L. Sargent	491
.....Prince T. Woods, M. D.	420	Monthly Prize Contest Dept.....	493
Practical Pointers for Month of March...Maurice H. Decker	422	Raising Chicks for Family Use.....C. Harris Scofield	493
Beautiful, Useful, Silver Gray Dorkings...Watson Westfall	426	How Shall We Pack Eggs for Hatching?.....E. Sweet	497
The New Standard and Double Mating.....Herb E. Sharp	428	Home and the Table.....Helen T. Woods	500
Popularity of the S. C. White Leghorns.....Karl Dittmer	430	Hatch Your Chickens Early.....F. D. Rogers	503
S. C. White Leghorns—A Desirable Breed.....		In the Interest of Poultry Culture.....Geo. A. Hill	505
.....George R. Williams	432	The Profitable S. C. W. Leghorn.....Glen Waltz	508
A Study of General Purpose Breeding...Maurice H. Decker	433	Recognized Worth of the S. C. W. Leghorn...James Keppie	510
Editorial.....	438	Uncertain Factors in Breeding.....	511
Baby Chick Time—The American Poultry Association		Echoes of the San Francisco Convention.....	
Text Book—English Poultry and the War—The Five-		.....Prince T. Woods, M. D.	515
Cent Egg—Poultry Judges—Clean Journalism—Stand-		What Constitutes One Egg.....	522
ardized Article Contests—S. C. White Leghorn Contest		That Utility Craze.....	523
—Have a Home Garden—Net Cost of a Dozen Eggs—		Why I Breed S. C. Black Minorcas.....J. M. Dean	524
Hon. Chas. M. Bryant.		Associations and Shows.....	525
Dr. Woods' Notes and Comment.....	444	Specialty Clubs and Shows.....	560
Horticulture for Poultry Keepers.....Thos. F. Rigg	451	Corrections.....	561
Black Minorcas As I Know Them.....Frank McGrann	458	Winnings of American Poultry Journal Advertisers.....	562
Questions and Answers.....	459	Our Cover.....	566
It's the Man—Not the Plan.....P. K. White	478	Obituary.....	567
Readers' Experience Department.....	481		
Woman's Success With Poultry.....	488		



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INDEX TO GUARANTEED ADVERTISERS

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Abbott, O. M., Whiteland, Ind.....	504	Chester Co. Poul. Farm, Pottstown, Pa.....	519	Garnett, F. L., Cleveland, O.....	462
Alden, Edgar F., Winnetka, Ill.....	463	Chi. House Wrecking Co., Chicago.....	464-469	Gassmann, Henry, Olney, Ill.....	517
Aldrich Poultry Farm, Columbus, Ohio.....	405	Chiles & Company, Mt. Sterling, Ky.....	396	Gem Mfg. Co., Greenville, O.....	475
Allen Co., S. L., Philadelphia, Pa.....	451	Cinnakol Chem. Sales Co., Bayonne, N. J.....	565	Gensch, F. M., Omro, Wis.....	519
Allen Co., W. F., Salisbury, Md.....	452	Clark, G. A., Seymour, Ind.....	481	Gensemer Bros., Creston, O.....	399
Almendinger, A. F., Buffalo, N. Y.....	455	Clausen, F. S., Oconomowoc, Wis.....	468	Gerber, G. J., Dalton, O.....	489
Alum. Marker Works, Beaver Falls, Pa.....	566	Correct Hatchery, Cleveland, O.....	508	Gilbert Poultry Farm, Haverhill, Mass.....	566
Am. Poul. Advocate, Syracuse, N. Y.....	524-537	Close-to-Nature Co., Colfax, Ia.....	527	Globe Elevator Co., Buffalo, N. Y.....	524
American Poultry Journal, Chicago, Ill.....	408-411-412-449-466-468-499-559	Coburn's Red Sus. Farms, Mich.....	476-551-556	Glory Anna Poul. Yds., Louisville, Ky.....	554
Am. School of Poul. Husbandry, Missouri.....	508	Cole, Frank C., Van Wert, O.....	400	Goddard & Sons, W. H., Muncie, Ind.....	489
Andrews, J. W., Dighton, Mass.....	485	Collins, W. H., New York City, N. Y.....	485	Gordon, Jessie F., Spring Valley, Minn.....	560
Andrews, O. B., Chattanooga, Tenn.....	509	Conkey Co., G. E., Cleveland, O.....	459	Goshen Poultry Farms, Goshen, Ind.....	584
Andrews Co., O. B., Tenn.....	Inside bk. cover	Conrad, E. K., Hackensack, N. J.....	453	Graham, Alfred F., Moultrie, Ga.....	522
Andrews, S. H., Mineola, N. Y.....	532	Consolidated Products Co., Chicago.....	551	Grant, John, Richmond, Ill.....	554
Applegate Poultry Farm, Delavan, Wis.....	544	Cook L., Oakville, Ia.....	457	Greiger, B. H., Rheems, Pa.....	477
Astle, Milan C., Mokena, Ill.....	517	Cook & Sons, Wm., Scotch Plains N. J.....	445	Grove Hill Poultry Yds., Waltham, Mass.....	561
Attherton, W. B., Randolph, Mass.....	540	Cooke, Geo., Racine, Wis.....	453		
Atsatt Bros., Mattapoisett, Mass.....	516	Co-Operative Breed. & Hatch. Co., Ohio.....	476	Halbach, H. W., Waterford, Wis.....	443
Automatic Trap Nest Co., Kenosha, Wis.....	538	Cornell Co., Great Barrington, Mass.....	537	Hall Mammoth Inc. Co., N. Y.....	528
		Corning Egg Farm, Bound Brook, N. J.....	566	Handyside, J. R., Litchfield, O.....	455
Balch & Brown, Manchester, Conn.....	559	Corn Products Refining Co., New York.....	550	Hansen, Dr. M. A., Osage, Ia.....	452
Bales, J. S., Springfield, Ill.....	516	Correct Hatchery Co., Leesville, Ohio.....	567	Harbin, Edmond J., Riverside, Ill.....	536
Banks, M. H., Dillsburg, Pa.....	537	Cross, Frank, Montague, Mass.....	537	Harnly, Mrs. J. H., Zion City, Ill.....	561
Barker, M. S., Thornton, Ind.....	484	Crotser, E. A., Fulton, Mich.....	489	Harris Bros. Co., Chicago, Ill.....	456-512
Barstow, Geo. N., Oneonta, N. Y.....	520	Cudahy Packing Co., Chicago, Ill.....	500	Harrison, F. E., Menominee, Mich.....	409
Bawden, John, Ridgeway, Ont., Can.....	522	E. G. Curtis, Atsion, N. J.....	560	Hartley Steel Crated Box Co., Mich.....	516
Bayerdorfer, M., Huguenot Pk., N. Y.....	522	Curtiss Co., W. R., Ransomville, N. Y.....	546	Hauk, Jos., Waukegan, Ill.....	559
Beach & Barnard, New York City, N. Y.....	455	Cyclone Mfg. Co., Urbana, Ind.....	513	Hawkins, A. C., Lancaster, Mass.....	474
Bean, I. W., So. Braintree, Mass.....	532	Cyphers Inc. Co., Buffalo, N. Y.....	406-407-553	Hayward, W. F., Westboro, Mass.....	542
Bear Brook Poul. Farm, Wakefield, Mass.....	537			Heasley, Dr. L. E., Holland, Mich.....	564
Bella Vista Farms Co., Kimmiswick, Mo.....	522	Darling & Co., Chicago, Ill.....	522	Henderson, W. W., Bridgeton, Mo.....	409
Belle City Incubator Co., Racine, Wis.....	413	Davis, M. C., Woodstock, Ill.....	484	Hering, Frank E., South Bend, Ind.....	404
Bemis, E. L., Fond du Lac, Wis.....	522	Dawdy & Dawdy, Greenville, Ill.....	492	Hess & Clark, Ashland, O.....	460-417
Berberich, Rev. W., Groton, N. Y.....	532	Dee, Grover, Quincy, Ill.....	512	H. I. Company, Salem, Va.....	484
Berg & Beard Mfg. Co., Brooklyn, N. Y.....	482	Deer F. L., Franklin, Ind.....	560	Hiles, J. C., Cleveland, O.....	513
Berry's Poultry Farm, Clarinda, Iowa.....	527	Demberger, L. J., Stewartsville, Ind.....	415	Hinde & Dauch Paper Co., Sandusky, O.....	463
Besse, C. W., Jefferson, Maine.....	453	Deming, H. P., Winsted, Conn.....	527	H. O. Company, Buffalo, N. Y.....	448
Beuoy, Geo., Cedar Vale, Kansas.....	537	Des Moines Inc. Co., Des Moines, I.....	479	Hodgson Co., E. F., Boston, Mass.....	530
Bigelow, P. C., Medina, Ohio.....	533	Deoye's, Dodgeville, Wis.....	544	Holterman, W. D., Fort Wayne, Ind.....	515
Bird Bros., Meyersdale, Pa.....	514	Dickinson Co., Albert, Chicago, Ill.....	454	Homaji Farm, Eveleth, Minn.....	462
Bird & Son, East Walpole, Mass.....	537	Doerhoefer, L. P., Ky.....	Inside back cover	Homestead Campine Farm, Mass.....	526
Blatchford's Calf Meal Fcty., Illinois.....	498	Duplex Colony Brooder Co., Ill.....	524	Hooker, Henrietta E., S. Hadley, Mass.....	489
Bloese, Aug., Chicago, Ill.....	470	Du Pont de Nemours & Co., Del.....	454	Hough Egg Farm, Far Hills, N. J.....	489
Blum, Barbara, New Washington, Ohio.....	537	Durfee's Leghorn Farm, Madison, Wis.....	518	Houston & Hofus, So. Charleston, O.....	527
Blum, Frank, New Washington, Ohio.....	457	Duston, Arthur G., Framingham, Mass.....	532	Hover-Incubator Mfg. Co., N. J.....	522
Bock, Oscar L., Council Bluffs, Iowa.....	519			Howison, Chas., Sandwich, Ill.....	476
Boggs, K. C., Olney, Ill.....	533	Eakin, F. M., Bucyrus, O.....	499	Hubbard, C. H., Lime Rock, Conn.....	544
Bottenus, Mrs. B., Cleveland, Ohio.....	549	Easing, N. P., Pekin, Ill.....	403	Hummel, S. A., Freeport, Ill.....	522
Boy's Companion, Chicago, Ill.....	505	Eberle, Otto J., Pittsburgh, Pa.....	356		
Bower-Knoll Farm, Olney, Ill.....	465	Edwards & Loomis Co., Chicago, Ill.....	394	International Glue Co., Boston, Mass.....	508
Brackett, L. C., Hopkins, Mich.....	542	Egg Preservative Co., New York.....	565	Iowa Incubator Co., Des Moines, Ia.....	550
Bradley Bros., Lee, Mass.....	536	Elec. Specialty Co., Salt Lake City, Utah.....	560	Ironclad Incubator Co., Racine, Wis.....	467
Bradley Port. House Co., Randolph, Mass.....	514	Elliott Poul. & Fruit Farm, Ohio.....	492	Ives, Ives & Ives, Guilford, Conn.....	514
Brantford Farms, Groton, Conn.....	509	Enslin, T. J., Hackettstown, N. J.....	396		
Briggs, Edgar, Pleasant Valley, N. Y.....	518	Everfresh Egg Farm, Ionia, Mich.....	544	Jacobus, M. R., Ridgefield, N. J.....	566
Brogden, Thos., Rush Lake, Wis.....	517	Everlay Farm, Methuen, Mass.....	497	Jensen, Carl J., Waukegan, Ill.....	510
Brooder Mfg. Co., A. A. E., Oklahoma.....	532	Ever-Ready Trap Nest Co., Missouri.....	554	Johnson, Frank, Chicago, Ill.....	522
Brown Fence & Wire Co., Cleveland, O.....	456	Ewing & Romich, Creston, Ohio.....	560	Johnson Co., M. M., Clay Center, Neb.....	402
Brown, John L., Anderson, Ind.....	450			Jones Co., H. M., Des Moines, Ia.....	465
Bruerton, M. M., Wakefield, Mass.....	497	Faha, Jr., Frank, Dyersville, Ia.....	519		
Buckeye Inc. Co., Springfield, O.....	416-542	Farming Business, The, Chicago, Ill.....	537	Kaup, F. A., Glen Ellyn, Ill.....	536
Buckeye Poultry Yards, Eaton, Ohio.....	484	Farm Journal, Philadelphia, Pa.....	454	Keefe, C. A., Muskegon, Mich.....	524
Buell, Mrs. L. R., Lake Geneva, Wis.....	465	Farmers' Rabbitry, Red Bank, N. J.....	531	Keeler, Chas. V., Winamac, Ind.....	444
Buena Vista Farm, Northboro, Mass.....	554	Felch, I. K., Natick, Mass.....	396	Keipper Cooping Co., Milwaukee, Wis.....	538
Burpee & Co., W. Atlee, Philadelphia, Pa.....	452	Fernbrook Farm, Albany, N. Y.....	489	Keller, Ira C., Prospect, O.....	520
Burrell-Miller, Indianapolis, Ind.....	513	Ferris, P. J., Cuyahoga Falls, O.....	533	Kemper, Roy, Clarence, Mo.....	520
		Fertig, S. E., St. Paul, Minn.....	559	Kennedy, J. Fred N., Ont., Can.....	532
Cadwallader, T., Salem, Ohio.....	566	Fishel & Son, J. C., Hope, Ind.....	397	Kern, J. C., Kansas City, Mo.....	520
Cagwin, R. W., Williamstown, N. Y.....	537	Fishel, U. R., Hope, Ind.....	483	Keyes-Davis Co., Battle Creek, Mich.....	398
Caingorm Farm, Nottingham, Ohio.....	512	Fishel & Hasselman, Hope, Ind.....	546	King, Dr. A. C., Chicago, Ill.....	398
Candee Inc. & Brooder Co., N. Y.....	510-511	Fogg, N. V., Mt. Sterling, Ky.....	561	Kitselman Bros., Muncie, Ind.....	414
Carbo Corporation, Chicago, Ill.....	448	Forbes & Co., Chicago, Ill.....	475	Klein, J. W., Kiel, Wis.....	453
Carbala Chemical Co., New York City.....	534	Pourche Mount. Poul. Farm, Arkansas.....	485	Klein-Lambert Co., Chicago, Ill.....	455
Carbolineum Wood Pres. Co., Milwaukee.....	456	Foxhurst Farm, Lime Rock Conn.....	485	Knollenberg Milling Co., Quincy, Ill.....	499
Carpenter, W. W., East Providence, R. I.....	469	Frantz, O. C., Rocky Ford, Colo.....	496	Kulp, W. W., Pottstown, Pa.....	538
Carr Bros., Vineland, N. J.....	457	Frase, W. F., East Akron, O.....	520		
Carr, R. E., De Kalb, Ill.....	554	French Co., R. T., Rochester, N. Y.....	497	Lakewood Farms, Holland, Mich.....	466
Carter's Poultry Farm, Jonesdale, Wis.....	491	Friesner & Son, J. W., Bremen, O.....	518	Lange, J. G., Detroit, Mich.....	485
Carver, A. A., Seville, Ohio.....	441	Fuller White Leghorn Farm, Mich.....	546	Latham, C. H., Lancaster, Mass.....	446
Cassel & Son, F. P., Lansdale, Pa.....	480	Funk Egg Farm, Bloomington, Ill.....	498	Laywell Poultry Farm, Lyndonville, Vt.....	537
Chase, G. H., Highland, N. Y.....	534			Lee Co., Geo. H., Omaha, Neb.....	513
		Gamewell, J. A., Little Silver, N. J.....	508	Lee, Leo A., Chicago, Ill.....	546
		Garbutt, Cora B., Darien, Wis.....	499		



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Leitner, C. H., Elgin, Ill.	440	Niemann Bros. Mfg. Co., Mt. Olive, Ill.	477	Riley, Henry D., Strafford, Pa.	544
Licene Co., Chicago, Ill.	586	Norman Farms & Hatchery, Ill.	516	Riley, H. J., Bryan, O.	476
Ligeot, Dr. C. P., Red Oak, Iowa.	561	North Eastern Mfg. Co., Keeseville, N. Y.	553	Riley Mfg. Co., Grafton, Ill.	468
Lily White Poul. Farm, Saginaw, Mich.	508	Norwich Auto Feeder Co., Conn.	461	Roberts, Wm., Granville, Mich.	484
Lingeman, C., St. Louis, Mo.	538	Novak Poultry Farm, Racine, Wis.	468	Robinson & Bro., C. N., Baltimore, Md.	452
Lock, C. W., De Kalb, Ill.	470	Nye, C. C., Harristown, Ill.	399	Rochester Spray Pump Co., N. Y.	522
Lo-Glo Elec. Incubator Co., N. Y.	498	Oakes Mfg. Co., Tipton, Ind.	543	Rockford Poul. Supply Co., Rockford, Ill.	537
Longfield Poultry Farm, Bluffton, Ind.	457	Obermeier, C. F., Louisville, Ky.	566	Rock Lodge Farm, Southborough, Mass.	532
Lovejoy, D. S., South Elgin, Ill.	566	Ohio Marble Co., Piqua, O.	463	Rocwood Farm, Norwalk, O.	512
Lucas, L. L., Youngstown, Ohio.	567	O. K. Co., New York City, N. Y.	566	Rogers, C. A., Bergen, N. Y.	541
MacKay Colony Brooder Co., N. Y.	460	Old Forge Poul. Farm, Spring Grove, Pa.	505	Rogers, F. D., Elgin, Ill.	558
McCammon & Myers, Gettysburg, Pa.	537	Olle, P. J., Racine, Wis.	518	Rosedale Egg Farm, Mich. Inside back cover	
McClave, Chas., New London, O.	509	Orchard Farm, Noroton Heights, Conn.	566	Rosemont Farms, Pa. Inside back cover	
McConnell, J. V., Garden Grove, Calif.	539	Ossege Hatchery, J. W., Glandorf, O.	534	Rudy, Geo. H., Mattoon, Ill.	556
McConnell, W. A., Richmond, Ill.	529	Otis & Moe Co., Chicago, Ill.	455-530	Ruf, Fred A., Crown Point, Ind.	524
McCrum, W. O., Decatur, Ill.	532	Owen Farms, Vineyard Haven, Mass.	472-473		
McDaniel & Cessna, Kansas, Ohio.	566	Page, Fred, Rockford, Ill.	533	Sanborn, Dr. W., Holden, Mass.	516
McDaniell, M. O., Moline, Ill.	442	Palmer & Son, D. F., Yorkville, Ill.	489	Sanford, Geo. F., Wheaton, Ill.	469
McGrann, Frank, Lancaster, Pa.	398	Pape, Chas. G., Fort Wayne, Ind.	482	Sargent, Lester L., Washington, D. C.	522
McLean, S. G., So. Glanstonbury, Conn.	549	Parke, Davis & Co., Detroit, Mich.	456	Saunders & Williams, Ingersoll, Can.	484
Magic Egg Tester Wks., Buffalo, N. Y.	513	Parks, J. K., Altoona, Pa.	566	Savage, P. L., St. Charles, Ill.	533
Mahon, Elton C., Norwood, Tenn.	522	Parks, J. W., Altoona, Pa.	529	Schabell, John, Chicago, Ill.	497
Majestic Squab Co., Adel, Ia.	513	Pasteur Lab. of America, New York.	566	Schenley Heights Poul. Farm, Pa.	549
Mankato Incubator Co., Mankato, Minn.	452	Payne Bros., Portland, Conn.	546	Scherrubbe, H., Elgin, Ill.	484
Mann Co., F. W., Milford, Mass.	498	Pennington, J. S., Plainfield, Ill.	455	Schlosser & Son, A. H., Bettendorf, Ia.	530
Marble Cliff Quarries Co., Columbus, O.	534	Pa. Poul. Farm, Pa.	470-536-531-540-551	Schultz, W. F., Cuyahoga Falls, Ohio.	554
Marshall & Marshall, Niagara Falls, Can.	584	Perfec. Port. Poul. Hse. Co., Chicago.	518	Schwabe-Smith Co., Elmhurst, Ill.	401
Martin, J. S., Port Dover, Ont., Can.	442-503	Perry, Louis H., Clay, N. Y.	455	Scranton, B. H., Rising Sun, Ind.	399
Martin, M. F., Chicago, Ill.	396	Phile, Henry, Freeport, Ill.	537	Sears, Howard O., Garden Prairie, Ill.	400
Martling Hennyery, Rridgefield, N.	400	Pilling & Son Co., Philadelphia, Pa.	513	Sefton Mfg. Co., Chicago, Ill.	491
Martz & Son, A. E., Arcadia, Ind.	440	Pinehurst Farm, Oberlin, O.	550	Seward, R. M., Lewistown, Ill.	534
Mather, Meade, Saratoga, N. Y.	562	Pine Lake Poul. Farm, Hartland, Wis.	510	Sharp, Herb, Spokane, Wash.	540
Maywood White Rock Yds, Maywood, Ill.	541	Pittsfield Poul. Farms Co., Mass.	548	Sherr Co., H. M., Quincy, Ill.	450
Mazelin, Joseph, Berne, Ind.	532	Plainfield Hatchery, Plainfield, Ill.	453	Sheffield Farm, Glendale, O.	476
Mead Cycle Co., Chicago, Ill.	478	Platt, F. L., Swanton, O.	440	Sheppard, H. Cecil, Berea, O.	506-507-531-295
Meadow Lark Farm, Elgin, Ill.	502	Plymouth Rock Squab Co., Melrose, Mass.	555	Sherman, C. A., Freeport, Ill.	560
Meadow Lawn Poul. Yds., Mich.	453	Pomona Nurseries, Danville, N. Y.	452	Shoemaker, C. C., Freeport, Ill.	564
Merrill, Arthur, Solon Mills, Ill.	453	Poorman, John G., Tinley Park, Ill.	418	Shoenhard, G. H., Freeport, Ill.	513
Metzger Mfg. Co., Quincy, Ill.	554	Pope & Pope, Louisville, Ky.	534	Shumway, R. H., Rockford, Ill.	452
Mills Incubator Co., New York City.	492	Porter, A. B., La Salle, Ill.	489	Silliman, John, Ironton, O.	532
Minch, Philip J., Cleveland, O.	489	Potter & Co., Downers Grove, Ill.	517	Simmonds, Chas. A., Camp Point, Ill.	510
Mirimichi Poul. Farms, Foxboro, Mass.	502	Pottinger, Joseph, Peru, Ill.	532	Simplex Brooder Stove Co., Mich.	454
Mo. Poul. & Squab Co., Kirkwood, Mo.	448	Powers, J. H., Chicago, Ill.	530	Simplex Sup. House, Chicago.	474-4-10-539
Mittendorff, O. F., Lincoln, Ill.	462	Prairie State Inc. Co., Homer City, Pa.	414	Singleton, Geo. H., Lakewood, O.	560
Model Incubator Co., Buffalo, N. Y.	563	Pratt Food Co., Philadelphia, Pa.	415	Sixt, H. C. & C. W., West Park, O.	460
Moeller, A. E., Brooklyn, N. Y.	512	Progressive Incubator Co., Racine, Wis.	462	Smith, Eugene C., Aurora, Ill.	441
Moeller, Carl W., Quincy, Ill.	541	Prudhomme, J. D., Thurmont, Md.	517	Smith, F. S., Hamilton, O.	526
Monmouth Farms, Freneau, N. J.	540	Putnam, I., Elmira, N. Y.	469-489	Somers, J. O., Bedford, O.	396
Moore, R. H., Nellie, O.	527	Quackenbush, M. J., Nutley, N. J.	541	Spahr, Albert G., Xenia, O.	482
Mooreland Poultry Farms, Mentor, Ohio.	561	Quaker Oats Co., Chicago, Ill.	523	Spiller, A. P., Beverly, Mass.	538
Morrisite Mfg. Co., Bloomfield, N. J.	498	Queen Incubator Co., Lincoln, Neb.	475	Sprague, P. H., Maywood, Ill.	566
Morris Farm, Bridgeport, Conn.	531	Quincy Poultry Farm, Quincy, Ill.	541	Spring Water Poul. Farm, Stockton, N. J.	492
Morris Poultry Farm, Lebanon, O.	512			Staatsburg Mfg. Co., N. Y.	544
Morse, Rufus, Belding, Mich.	457			Standard Poultry Co., Nappanee, Ind.	505
Mount Air Farm, Powell, O.	511			Standard Rock Farm, Mendota, Ill.	517
Mountville Farm, Mountville, Va.	560			Starck Pano Co., P. A., Chicago, Ill.	584
Myers, C. Guy, Siddonsburg, Pa.	518			Starks, M. L., Starks, Wis.	455
Myers, C. N., Hanover, Pa.	441			Steinmesch, Hy., St. Louis, Mo.	510
Myers, Frank, Freeport, Ill.	457			Sterling Poultry Co., Sterling, Ill.	558
				Sterling Poultry Farm, Sterling, Ill.	567
				Stiarwalt, John, Decatur, Ill.	520
				Stiles, Chas. L., Columbus, O.	514-537-566
				Stratton Mfg. Co., Erie, Pa.	498
				Struble, Z. D., Bascom, O.	396
				Sturman, Grant, Mt. Carmel, Ill.	546
				Succulenta Co., Newark, N. J.	464
				Sunlight Poul. Farm, Lynchburg, O.	493
				Sunnyside Poultry Farm, Bristol, Vt.	560
				Sunswick Poul. Farm, So. Plainfield, N. J.	416
				Swift & Co., Chicago, Ill.	456
				Sycamore Farm, Grafton, Mass.	565

Sussex -- Campines

in competition with the world's best, we won **Nine Firsts** out of a possible **Eighteen**, Seven Seconds, Six Thirds, Six Fourths, Two Fifths. Every one of our 44 birds entered won a ribbon. A most remarkable and enviable record. At the **Cleveland Poultry Breeders' Association Show**, January 3rd to 8th, 1916, we won **Twelve Firsts** out of a possible **Sixteen**, Seven Seconds, Six Thirds, Six Fourths and Two Fifths.

A few choice Pens, Trios and Single birds at reasonable prices. We have our Pens mated for the egg trade; write for mating list.

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NYE'S S. C. WHITE LEGHORNS—at a Bargain

My birds are all farm raised and grown under ideal conditions and guaranteed to please.

Wonderful COCKEREL SALE for Next 30 Days

Large, strong, vigorous males bred from my best layers. Send for free catalog before buying elsewhere.
Rouen Ducks for sale. Satisfaction guaranteed. Write today.

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Box A

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Tompkins' Rhode Island Reds SINGLE and ROSE COMBS

Hundreds of high-class breeding birds yet to select from. Pens or trios a specialty, at modest prices.
Mating list ready, describing 16 of the strongest breeding pens ever put together. Write your wants to

HAROLD TOMPKINS - Box A - CONCORD, MASS.

SCRANTON'S SINGLE COMB REDS WERE THE BIG WINNERS

At the Recent Madison Square Garden Show

Send for mating list giving full details and past records, along with detailed description of 1916 matings. It is free.

B. H. SCRANTON

Box 350

Rising Sun, Indiana

Tarbox, A. & E., Yorkville, Ill.482
 Taylor, Geo., Urbana, Ill.457
 Taylor Instrument Co., Rochester, N. Y.478
 Tenacre Poultry Farm, Princeton, N. J.484
 Thompson, E. B., N. Y.486-487-back cover
 Thornwood Poultry Yds., Crandall, Ind.541
 Thornycroft Buff Leghorn Farm, Pa.537
 Tiffin Poul. Farms & Hatch., Tiffin, O.455
 Timberlake & Sons, J. B., Jackson, Mich.492
 Tompkins, Harold, Concord, Mass.398
 Treman, King & Co., Ithaca, N. Y.538
 Tremper, S. N., Sandwich, Ill.475
 Trethaway, Arthur, Wilkesbarre, Pa.497
 Tucker, Chas., Sycamore, Ill.517
 Tyler, S. A., De Kalb, Ill.482
 Tywacana Farms Poultry Co., N. Y.462

Uhl & Co., M., New Washington, O.482
 United Brooder Co., Trenton, N. J.453-566
 Universal Heat Check, Buffalo, N. Y.532
 Urban Farms, Buffalo, N. Y.559

Valley Farm Co., Newburgh, N. Y.566

Walker, G. A., Polo, Ill.453
 Walton, Geo. W., Velva, N. D.561
 Ward, John W., Pennington, N. J.527
 Ward, R. W., Normal, Ill.489
 Ward, W. H., Mickerson, Kan.470
 Warner, The Co., Allegan, Mich.455
 Warsaw Incubator Co., Warsaw, Ill.513
 Watson Mfg. Co., Lancaster, Pa.547
 Watts, Mrs. Tella E., W. Concord, Minn.532
 Waugh, M. H., Peoria, Ill.448
 Weber, W. A., Mankato, Minn.492
 Wellcome, F. O., Yarmouth, Me.537
 Wendell Incubator Co., Holly, Mich.466
 West, Elmer C., Ewing, Ky.499
 Western Electric Co., Chicago, Ill.396
 Wetmore, C. S., Lackawanna, N. Y.504
 Wheeler, Albert V., Carlisle, Ill.536
 White, D. J., Wilkinsburg, Pa.519
 White City Egg Farm, Seville, O.542
 White Wyandotte Poul. Yds., Mass.520
 Whitmore Mfg. Co., Galva, Ill.541
 Whitney, W. B., Marlborough, N. Y.561
 Wiebke, W. H., Fort Wayne, Ind.567
 Wilburtha Poultry Farms, N. J.471

Williams, A. C., Ravenna, O.446
 Williams, E. H., Berea, O.565
 Willow Tree Poul. Farm, Mass.545
 Wilson Bros., Easton, Pa.522
 Wisconsin Incubator Co., Racine, Wis.490
 Wolf, Mrs. John, Merrifield, N. D.463
 Wolf-Huber Hatchery Co., Gibsonburg, O.509
 Wood, Chas. H., Worcester, Mass.519
 Wood, Miss Dorothy, Fond du Lac, Wis.530
 Woods, H. M., Carlisle, Ill.533
 Woodward, C. L., Norwalk, O.463
 Woodward, Ralph, Grafton, Mass.396
 Woolery Farm, Bloomington, Ind.516
 Wotherspoon, Jas. R., Philadelphia, Pa.536
 Wyckoff & Son, C. H., Aurora, N. Y.521
 X-Ray Incubator Co., Des Moines, Ia.552
 Yesterlaid Egg Farms Co., Pacific, Mo.520
 Young, D. W., Monroe, N. Y.447
 Young Co., E. C., Randolph, Mass.396
 Zenner Disinfectant Co., Detroit, Mich.584
 20th Century Hatchery, O.505

Have You Ever Thought of This?

The uncertainty involved when buying Eggs for hatching? Well, there is no uncertainty when buying from us. It is the same as buying so many Live Chicks from the Greatest Prize Winning Strain of their variety in America, at Egg Prices. You know in advance, just what to count upon.

Our Guarantee does it.

Every egg we sell for setting, we guarantee to be fertile. But who can say positively, just what Nature will do? They may be fertile on the 10th day after setting, but by the 18th day that fertility may be dead. What then? Ordinarily, You lose. Not so with us.

We positively Guarantee

a specified number of Chicks from each and every setting of eggs we sell. Should you fail to hatch the required number, we will supply eggs, until you do, without extra charges. Think it over. Our Price list tells more about it.

The fame of Our Stock is Nation-wide. If you have not read our List of Winnings, let us send one. It was Our birds that made that wonderful trip across the Continent, & was awarded Championship at Panama-Pacific Exposition. A splendid test of their vigor.

Exhibiting simultaneously, and with magnificent results, at two of the Greatest Shows of the Nation—Madison Sq. Garden, N.Y. and Glendale Show, Cal.—is an achievement which speaks for itself. In breeding our stock, special attention has been given to Egg-Producing qualities. They lay large, chalk-white eggs in great abundance. Awarded 1st Prize for Largest & Whitest eggs, wherever exhibited. Their utility qualities, equal their Prize qualities.

THE MARTLING SILVER CAMPINES
 The Strain without a Peer.

The Martling Hennerly, P.O. Box, 186N Ridgefield, N.J.

Cole's Buff Plymouth Rocks

CHAMPIONS OF THE CENTRAL WEST

at Canton, Ohio, December 28, 1915, to January 2, 1916—Central District of the Buff Rock Club—won Central District Cup and best display. At the great Triangle Show, Fort Wayne, Ind., January 18-23, 1916, in competition with Panama Exposition winners, 81 Buffs in class, won: Cocks—1st, 2nd, 3rd, 4th, 5th; Hens—2nd, 3rd, 4th; Cockerels—2nd, 3rd, 4th, 5th; Pullets—1st, 4th, 5th; Young Pens—1st and 5th and four sweepstake specials. S. C. Buff Leghorns and S. C. White Leghorns—bred on separate farms from record-laying hens. Catalog free.

Frank C. Cole

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Van Wert, Ohio



Sear's BARRED ROCKS Chicago Winners

A great win made at Chicago Coliseum. Won 1st Pullet, 1914; also 1st Hen, 1915. Same bird winning both years (see illustration). This is certainly

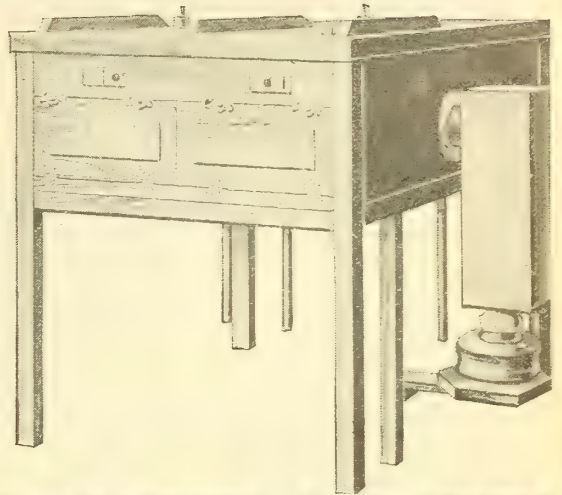
A WONDERFUL RECORD IN BARRED ROCKS

of which we are justly proud. SPECIAL SALE of pullet bred females at reasonable prices. Booking orders for Eggs. Mating list free—write today. Ten pairs English Call Ducks for sale; \$5.00 per pair.

H. O. SEARS

Box 6

Garden Prairie, Ill.



Before Buying Investigate **FREE** Get Our 1916 Illustrated Catalog ~

YOU may have your mind made up about which incubator you are going to buy. But don't place your order until you have read our catalog and learned ALL the facts about the Schwalge. Learn how the Schwalge, with its 3-pipe radiator, supplies the proper heat with least fuel; how the original Ventilation and Moisture Systems bring pure, fresh, damp air, full of life-giving oxygen, directly into the egg chamber; get posted on how this incubator grows from a single section to a mammoth incubator, just exactly as fast as your hatching requirements grow.

SCHWALGE Sectional INCUBATOR

You Run No Risk

When you order a Schwalge Sectional Incubator we give you an opportunity to use it in your own home and with your own eggs before we get our money. We know what a great incubator it is. We know that it cannot fail to please you. We know that it will do anything any other incubator does and do it better. We are willing to PROVE it to you at our risk. And if for any reason whatsoever, no matter what it is, a Schwalge Sectional Incubator should fail to satisfy you, you do not pay us a single cent. Honestly now, could we afford to make this offer unless we actually knew that the Schwalge was really the best incubator on the market? Use one and prove it before you pay.

hatches the largest possible percentage of fertile eggs. The chicks hatched in a Schwalge are lively, vigorous youngsters full of vitality, because they have been incubated with heat, air and moisture in the correct proportions.

Chicks do not die in the shell when you hatch with a Schwalge. The extra chicks a Schwalge saves from this common cause of poor hatches soon pay for this better incubator.

A Schwalge is built to last a lifetime. It brings off a good hatch the first time you use it, and ten years later it will do equally as well. When you divide the cost of a Schwalge by the many years of satisfactory service, you'll find it the cheapest incubator to buy.

You don't have to pay more for a Schwalge because it is better. Our prices are no higher than you pay for other good incubators, but you get many advantages not to be found in other machines.



The Sectional Idea

THIS is an exclusive feature of the Schwalge Sectional Incubator. It is the feature which enables you to start this year with one section—a complete incubator in itself. Next year, or at any time when your hatching requirements grow bigger, simply buy another Schwalge Section, connect it to the section you already have, and heat both sections with only one lamp. You can continue adding other sections as you need them and heat all of them with but one lamp. A patented arrangement permits the proper amount of heat to pass between the sections. Furthermore, each section is separately equipped with thermometer, double-wafer thermostat, etc., and is absolutely self-regulating.

If you buy a Schwalge Section this year, you have a complete incubator—the very best that it is possible to build. In future years, as you add other sections, you have but one lamp to look after instead of as many lamps as you have incubators.

Consider this feature carefully and decide to try a Schwalge at our risk.



Send This Coupon for Catalog

You simply cannot afford, in justice to yourself, to buy any other incubator until you have posted yourself about the Schwalge Sectional Incubator. Our sales so far this year have been 20 times as great as last year. More than half of the incubators sold this year are to people who already own a Schwalge. Our incubators must be good—better than others—if people who have bought one buy another. Find out for yourself how good they are. Get our Catalog FREE. Just send the coupon—N-O-W.

THE SCHWALGE-SMITH CO.

BOX 835

ELMHURST, ILL.

THE SCHWALGE-SMITH CO.,
Box 835, Elmhurst, Ill.

Gentlemen:

Absolutely without obligating me in any way, send me your new 1916 Illustrated Catalog of Schwalge Sectional Incubators. I am interested in an incubator of about eggs capacity.

Name

Address

Town..... State.....



H. H. Johnson

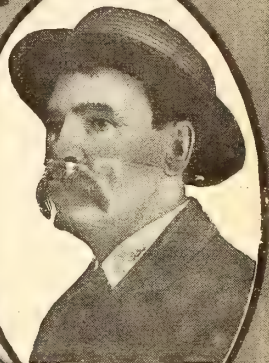
The "Early Chick" Gets the Market

IT'S the winter hatched chick that brings the top market price for broilers and fries in the early summer. And it's also the winter hatched chick that makes the busy laying pullet before fall, and that can be kept laying right along through the next winter, and that wins the ribbons at the shows. Of course you can make hatches at any time of the year, but *now* is the best time for profits.

Reader, have you got your hatches going? If not, let me send you an Old Trusty quickly and get started while the time is still good. In almost every corner of this country, from ocean to ocean, Old Trusty owners have their machines going for big hatches and big profits in 1916. It's the big hatches made at this time of the year

that mean the biggest profits later on, and it's hatching at this time of the year that proves the unbeatable quality in Old Trusty.

It takes the best construction and is a tip top hot water heating plant to make big hatches in cold weather. That's Old Trusty, as any one of its 650,000 satisfied customers will tell you.

M. M. Johnson
Inventor of
Old Trusty.

Now is the Time to Start Hatches in

Old Trusty

and if you are going to raise chickens at all this year, you want to make the most money out of them that you can.

We will ship Old Trusty to you in double quick time from factory at Clay Center, Neb., or from warehouses at St. Joseph, Mo., or Seattle, Wash.

And keep in mind that Old Trusty is the machine that comes to you ready for business the minute he arrives. There is no "assembling" to do, nothing to put together except to screw the legs on.

Also remember that Old Trusty is made in various sizes and that there is still a size for

Less Than \$10

delivered freight prepaid if you live east of the Rocky Mountains and a little more if you live farther west. Old Trusty sells at such a low price for such a top-notch quality machine only because he is made in such large

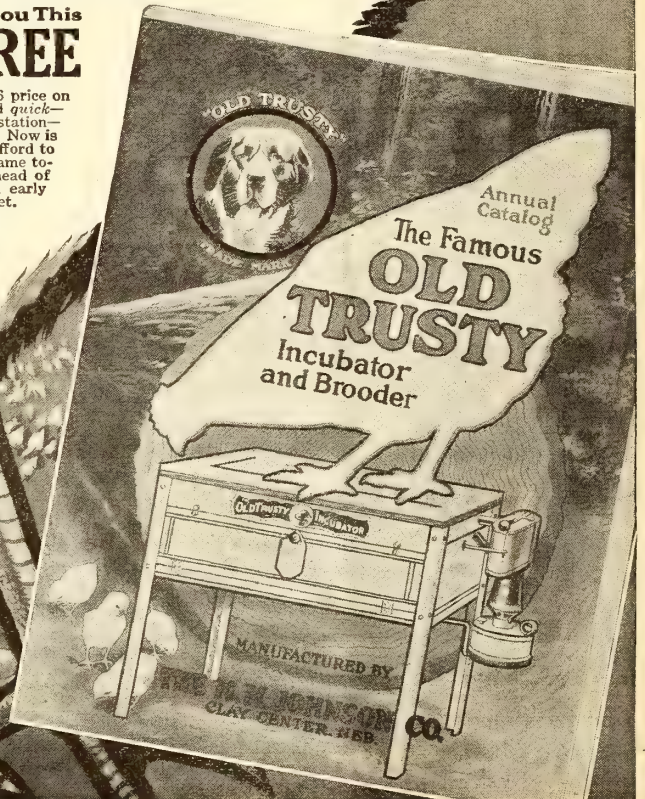
numbers by a home grown and home trained organization.

If Old Trusty was built in ordinary numbers or by an ordinary company he would cost a whole lot more. Our factory being the largest in the industry, with low overhead cost, you get the best that's made for a fraction of what you would expect to pay.

Let Me Send You This 136-Page **FREE** Book

and quote you our 1916 price on Old Trusty delivered quick—freight paid to your station—40 to 90 days' trial. Now is the time—you can't afford to wait—send in your name today and be weeks ahead of the usual crowd with early chicks for a top market. H. H. JOHNSON.

M. M. Johnson Co., Clay Center, Neb.



S. C. WHITE LEGHORNS

Parkside Strain Line-Bred

The Bred Winners

EGGS

From First Prize
Chicago Winners

\$5.00

Per Fifteen

CHICKS

From First Prize
Chicago Winners

\$10.00

Per Dozen



First Pen Cock, Heading
Grand Champion Pen
Chicago, 1916

Winners at the Great Chicago Show, 1916, the
largest show ever held in Chicago.

Easling Wins Again

and not only repeats his former success but wins the most
coveted prize in the whole show, Grand Champion
Pen of the show, with all varieties competing and with it
goes the LARGEST SILVER CUP OFFERED.

Parkside Strain is Line-Bred, I mean birds bred in line
for over ten years without the introduction of outside blood.
BIRDS bred up to the highest state of perfection and each
year's stock showing great improvement over those bred in
previous years. Every bird exhibited or sold, is bred and raised
on this farm. My catalog shows photos of their ancestors.
This is the place to come for honest birds, that will reproduce
themselves. I have thousands of satisfied customers, and
furnish quality at reasonable prices. I have plenty of breeding
stock to offer and **Conditioned Exhibition Birds**
that will win anywhere. Write your wants.

BRED-TO-LAY STOCK

I have a limited amount of stock in mated-up pens to offer
at reasonable prices, also males and females.

CHOICE EGGS FROM TRAP-NESTED HENS
with records of over 200 eggs a year.

I can furnish you good ordinary Breeding Stock, also incu-
bator eggs and day-old chicks in lots of 100 to 1000.

THE PARKSIDE POULTRY FARM

Box 40

N. P. Easling, Prop.

PEKIN, ILLINOIS

Bakersfield, Cal.

Dear Sir:—When it comes to
Parkside Leghorns I cannot speak too highly
of their quality and your treatment. The dif-
ferent breeders out here say that you are the
only EASTERN PANCIER who ever sends a
California his full money's
worth.—W. J. Coomba.

Irondale, Wash., Nov. 9, 1914.

Dear Sir:—Obtained 11 chicks
from a setting from pen No. 5, 12 chicks from
pen No. 4, and the shipment was delayed 6
days in Seattle by the Express Co. We shall
always be ready at any time to speak a good
word for your stock and your
treatment of customers.—Mrs. R.
H. Lowere.

Lockport, Ill., Jan. 13, 1915.

Dear Sir:—From stock which I bought of
you, I entered four birds at the January, Joliet,
Ill., show, winning 1st chl., 1st hen and 2nd chl.
A record I am quite proud of.—Herbert Food-
isch.

Strausburg, Mich., Jan. 4, 1915.

Dear Sir:—I am more than
pleased with the chickens I raised from the
eggs bought of you. I do not exhibit but in-
tend to when I have more of the same strain.
I would advise anyone wanting prize winners
to give PARKSIDE STRAIN a
trial.—Wm. G. Gesler.

Gridley, Ill., Jan. 9, 1915.

Dear Sir:—From eggs I bought
of you I raised the 1st, 2nd and 3rd chl. and 1st
and 2nd pen at Bloomington, Ill., show. Also
entered one chl. at Mt. Pleasant and won 1st
and sweepstakes. At Champaign I entered a
chl. and won 1st and champion
male.—W. H. Settle.

Lancaster, Ohio, Dec. 28, 1914.

Dear Sir:—I won 2nd and 5th
on cockerels at the Ohio State Show on birds
hatched from the eggs I got from you, and will
want more eggs again next Spring.—Fred
Stuck.

Bay City, Mich., Nov. 12, 1914.

Dear Sir:—Of eggs received
from you I hatched some of the finest birds
ever seen. I raised two cockerels in particular
which I would not part with for less than \$50
each. One has the same type of your first
Chicago cockerel 1914, and his
color is nearly perfect.—E. J.
Keena.

Moose Jaw, Sask., Can., Aug. 12,
1914.

Dear Sir:—Think it is about time I wrote
and thanked you for the way you treated me.
From the setting of eggs I hatched 12 fine
chicks. Have one cockerel raised from these
chicks that I consider the best
bird I have ever seen and I would
not take \$50 for him.—Thomas
Gibbs.

Anderson, Ind., Nov. 9, 1914.

Dear Sir:—Hatched 11 chicks
from the \$5.00 setting of eggs I bought of you.
In September I entered 4 pullets of this lot at
the Indiana State Fair, and got 1st and 2nd
prize. This is sure going some. \$150.00 would
not buy the birds we raised from
this setting.—Parker S. Short.

Beloit, Wis., Jan. 5, 1915.

Dear Sir:—On eggs purchased
from you in 1914 we won 1st and 2nd cock-
erel, 1st pullet and 1st pen. We also won 1st
hen and 1st cock on stock raised from your
1912 matings in a strong competition. Thanks
for your courteous treatment.—
Guy S. Lee.

Davenport, Wash., Dec. 21, 1914.

Dear Sir:—Entered 2 pullets at
the Spokane Poultry Show that were raised
from the setting of eggs we got of you, and
won 2nd pullet in strong competition with 1600
in the show. These birds certainly have the
true Leghorn type.—R. R. Cad-
cart.

Portland, Ind.

Dear Sir:—We won 1st on chl.,
1st on pullet and 1st on display at our County
Fair. These chickens were hatched from the
eggs we bought of you last March. We are
proud of our birds and presume you feel inter-
ested.—J. A. Elder & Son.

West Burlington, Ia., Jan. 4, 1915.

Dear Sir:—At Iowa State Pou-
ltry show won 1st and 3rd chl.; 1st, 2nd and 3rd
pullet; 2 silver cups, also A. P. A. medal for
best bird in Mediterranean class; only entered
5 birds. Our 1st pullet was the most attractive
bird at show. Thank you for fair
dealing.—Fritz Bros.

Peoria, Ill., Dec. 7, 1914.

Dear Sir:—From the setting of
eggs I purchased from you last Spring I raised
two choice cockerels, either one of which is
worth double the price of the eggs. I showed
one at the Peoria show and won 2nd prize on
him.—Rud Eberhardt.

Franklin, Tenn., Jan. 5, 1915.

Dear Sir:—I got 11 chicks from
the 15 eggs I purchased from you last Spring
and consider this very good for the distance
the eggs had to come. I think a whole lot of
the birds I raised and wouldn't care to part
with them.—Jesse J. Reams.

Why
Pay
More?

Why
Pay
More?

A TESTIMONIAL AND A WINNER IN EVERY EGG



1st Cock, The Coliseum, 1915.



1st Old Pen, The Coliseum, 1915.



1st Cockerel, Illinois State Fair, 1915

K I S M E T !

Two Sweepstakes Championships

At the December

COLISEUM SHOW, CHICAGO, ILL.

I TOLD YOU SO

But you may have taken my statement with a grain of a salt. Now, however, that I have won the lion's share of honors in the great contest between the quality breeders of the East, West, North and South in Single Comb.

WHITE LEGHORNS

no fair-minded man will question the right of my stock to be considered the equal of the best, both in exhibition and egg-laying qualities.

JUST CONSIDER THAT IN S. C. WHITE LEGHORNS

I won First and Third in Cocks

I won First Young Pen

I won First and Fourth in Cockerels

I won Second and Third Old Pen

I won the Coliseum Silver Cup for 5 Best Cockerels

I won the Coliseum Silver Cup for Best Display.

In Silver

CAMPINES

The Very Cream of the Best Fowls of the Country Were Exhibited.

THE CAMPINE CLUB OF AMERICA

held its annual meet at the Coliseum, and the leading breeders of the East—the head-liners in Campinedom—were present with their exhibits. The classes were the very strongest, everyone agrees, that have ever been exhibited and

THE GREATEST HONORS WERE MINE

I won TWO of the five awards in Cockerels

I won THREE of the five awards in Young Pens

I won THREE of the five awards in Hens

I won The Silver Campine Club Challenge Cup

I won THREE of the five awards in Pullets

I won The Coliseum Cup for Best Display

I won THREE of the five awards in Old Pens

I had 48 Campines entered; 38 were placed

Exhibition Stock I can furnish Leghorns and Campines for any show in the Country at very reasonable prices, and my guarantee to satisfy backs up every sale.

Utility Stock I have several hundred each of Silver Campine and S. C. White Leghorn breeding stock, males and females, at astonishingly low prices. Why not get the best, when they will cost you no more than inferior specimens? And, remember, I guarantee each sale.

Hatching Eggs November 1st I had 10 pens of each breed mated. December 1st I had 250 vigorous baby chicks. By January 1st I shall have 30 pens of each breed mated. I am now selling eggs from my all-star matings at very, very reasonable prices and I guarantee safe delivery and high fertility. Write today for my January, 1916 Announcement concerning show stock, utility stock and hatching eggs.

Write today for Stock and Egg Announcement.

FRANK E. HERING, Desk B, So. Bend, Ind.

Aldrich White Orpingtons

Are National Champions

AT the great *Madison Square Garden* show we again won the most coveted prize, *First Cockerel*, winning this on the cockerel which won first prize at Chicago Coliseum, Dec., 1915, and making this bird undoubtedly the



First Cockerel Madison Square Garden, 1915-16. Chicago Coliseum, December, 1915.

Champion White Orpington Male of America

Our record this season of 51 prizes at Allentown, Buffalo, St. Louis, Chicago and Madison Square Garden has never been equaled by any breeder of White Orpingtons in America. We won **First Cockerel at each** of these shows on different birds excepting at New York and Chicago. Our First Prize Chicago cock, himself a brother of our Madison Square Garden Cockerel, was also First Cockerel at Chicago, December, 1913 and is the only bird that has won twice at that show. These winnings, together with the fact that we won First Prize Cockerel for three years in succession at Madison Square Garden should thoroly prove that *Aldrich White Orpingtons are the Champions of America*.

High Egg Production and Show Qualities Combined

We have perfected our strain until our customers may now expect birds that will not only win in the show room, but lay as large a number of eggs during the year as any variety bred for egg production only. Why not take this fact into consideration and purchase

your foundation stock from the strain that is **BRED TO LAY AS WELL AS TO WIN**, when you can obtain it at prices no greater than are asked by any reliable breeder who sells stock bred only for egg production and not good enough to show.

Is Our Combination Strain Making Good?

The following letters, some of the many hundreds on file in our office, prove *Aldrich White Orpingtons win and lay*

Loveland, Colo., Jan. 15, 1916.

Aldrich Poultry Farm,
Columbus, Ohio.

Gentlemen:—The pullets from eggs purchased from you last season are certainly proving themselves to be great layers up to the present. They began laying November 13 and during December the whole bunch gave me a 60% average egg yield and so far this month at the rate of 70%.

One of the cockerels from these eggs scored 94 at two different shows and under different judges, winning first prize each time. He is sired by Quality Prince and I wish to get more of his eggs later.

Yours very truly,

EARLE BARRETT.

Colby, Kans., January, 19, 1916.

Aldrich Poultry Farm, Columbus, Ohio.

Gentlemen:—Please let us trouble you with a report on the records of the pullets which were raised from eggs from your last season's matings. We selected five pullets and put them in a pen on an egg ration on December 29 and the trap-nest records from January 1 to January 19, show that these five pullets laid 72 eggs, the individual records being: 17, 16, 14, 13, and 12. This is at the rate of 118 eggs per month or more than the highest record pen at the National Laying Contest at Mountain Grove in December.

I must confess that they promise to surpass my Tom Barron Leghorns for laying and will send you a later report of the records made by these birds.

Yours very truly,

E. B. BARNES.



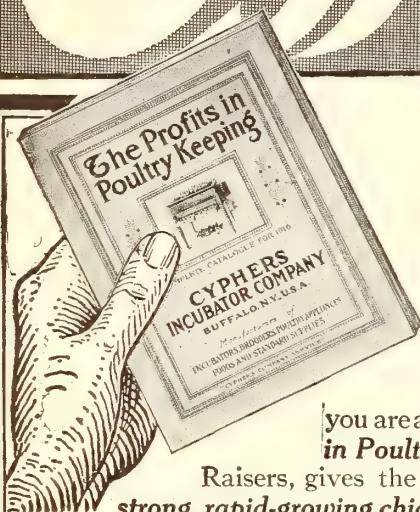
First Cock, Chicago Coliseum, 1915

If you wish to breed exhibition birds with a high laying record and want the most beautiful, hardiest and quickest growing variety of fowl, the White Orpington, and send for our beautiful catalog and mating list, giving prices and complete description of the thirty best pens of White Orpingtons the world has ever known. It is free if you mention American Poultry Journal.

ALDRICH POULTRY FARM 5073 N. High St. COLUMBUS, OHIO

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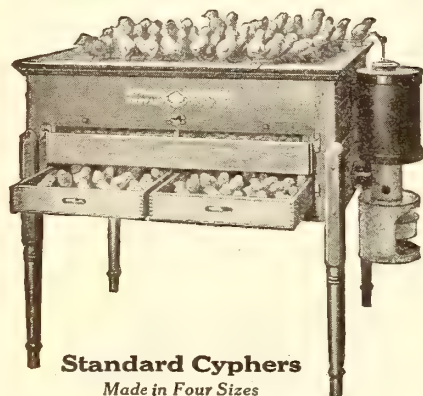


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YOUR SUCCESS, Reader—your profits for the coming year—will depend almost entirely on the number of chicks you are able to hatch and raise this spring. **"The Profits in Poultry Keeping,"** our 172-page Guide for Poultry Raisers, gives the "Cyphers Way" of producing **big hatches of strong, rapid-growing chicks**—"the kind with the kick in them;" shows how to **rear the chicks** without loss and danger of costly set-backs that stunt their growth and development; tells how to produce broilers, layers, breeders and show-room prize winners in the shortest time and at least expense. This book tells how you can pay for your incubator by hatching and selling day-old chicks. The introductory "Open Letter" by Grant M. Curtis, President of Cyphers Company, is **worth many dollars** to every poultry keeper who will read and heed the advice it gives. Address our **nearest office** and you will receive the book by return mail. A postal will do.



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Made in Two Sizes
65 Eggs, \$12.00. 130 Eggs, \$16.00



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No matter what style of incubator you prefer—whether hot-air or hot-water heated—there is a Cyphers-built machine in a size to suit your needs. Take advantage of our 20 years of leadership as manufacturers of the incubators that have long been recognized by poultrymen everywhere as the "standard hatchers of the world." Users will tell you that Cyphers-built incubators **hatch better, last longer**, require **less attention** and hatch **stronger, healthier chicks**—the kind that live and grow. Thousands of the most prosperous poultrymen owe their success to Cyphers equipment and have frankly stated that they could not have succeeded without it. Why experiment—why take costly chances? **Make your success certain** by using the successful man's incubator! Secure the latest improvements with time-tried principles and construction, combining efficiency, economy and durability.

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Hot-Air Incubator. Self-Regulating, Self-Ventilating, Non-Moisture. The best machine on the market at the price. Has **wooden** case, attractively finished in dark green, with brass trimmings and **double, well-insulated walls**. Seamless-bottom lamp bowl, best quality brass burner, Cyphers toggle-joint thermostat. Fume-proof, forced-draft heater. Embodies **diffusive** principle. (See illustration.) **Fully guaranteed.**

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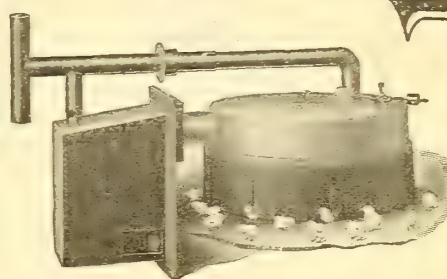


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The "Cyphers Way" Is the Sure Way

HAVING SUCCEEDED in producing big hatches of strong, vigorous chicks, *why risk losing them* by following improper brooding methods? *Every chick saved* by correct brooding will count big when the season's profits are figured. Every requirement for successfully raising chicks is provided by the "Cyphers Way." To be strong and vigorous, brooder chicks must be provided *automatically* with a *constant* supply of *pure, fresh, warmed air*. All these essentials are embodied in Cyphers Brooders and Hovers.



Cyphers Adaptable Hover. Price, \$9.00.



Cyphers Style B Three-Apartment Brooder.

Standard Cyphers Brooders

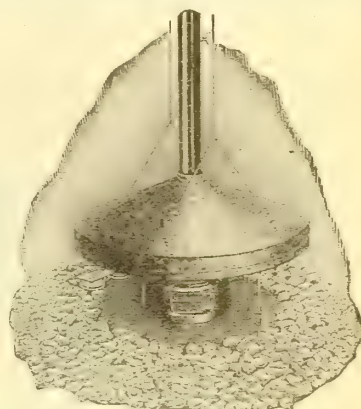
Have no equal as efficient brooding heater combined with latest-improved brooder case. Are equipped with Cyphers Adaptable Hover. Most popular Brooders on market. Keep chicks *safe and comfortable in any weather*. Convenient to use, easy to clean, readily movable. Shipped knock-down at lowest freight rates. *Style A*, for outdoor use; has two apartments. Price, \$14.50. *Style B*, for outdoor use; has three apartments. Price, \$18.50. (See illustration.) *Style C*, same as *Style B*, but has double-insulated walls in hover apartment; for cold climates. Price, \$20.00. *Style D*, for indoor use; has two apartments. Price, \$13.50.

Adaptable Hover

A popular and efficient outdoor and indoor brooder at a low price. Many thousands in successful use in all parts of the world. *Self-regulating, self-ventilating*, fume and gas-proof, all metal and fire-proof. Lamp cannot blow out. Easily attached to *home-made brooder case*, large goods box or small colony house; can be used in any hen house, closed shed or out-building. Used in all Standard Cyphers Brooders. (See illustration.) *Fully guaranteed.*

Portable Hover

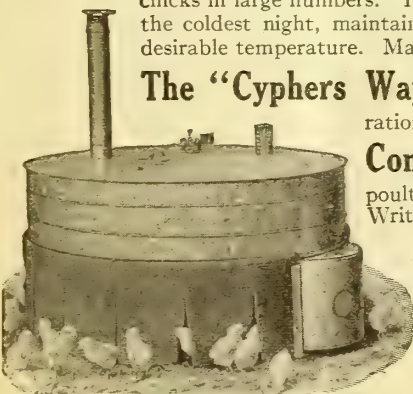
Provides a low-cost, convenient, practical way to brood chicks indoors. Set it down anywhere indoors and you will have a safe and comfortable home for the chicks. Movable at a moments' notice without even turning down the lamp flame. Is an *all-metal, self-regulating, self-ventilating*, complete brooding device, automatic and economical. Needs no brooder case or box enclosure. Chicks on level of room floor all the time. (See illustration.) *Fully guaranteed.*



Coal-Burning Colony Hover. Price, \$15 Up.

Coal-Burning Colony Hover

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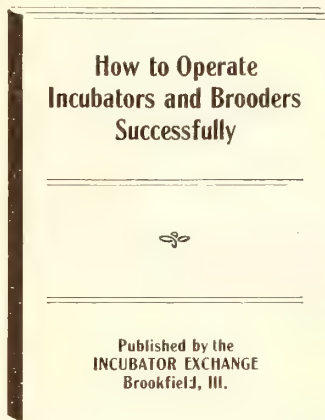
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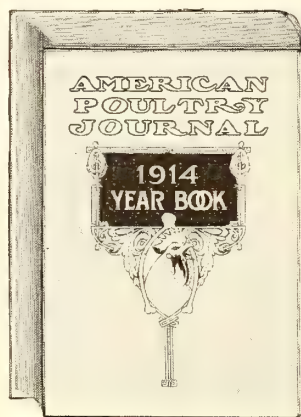
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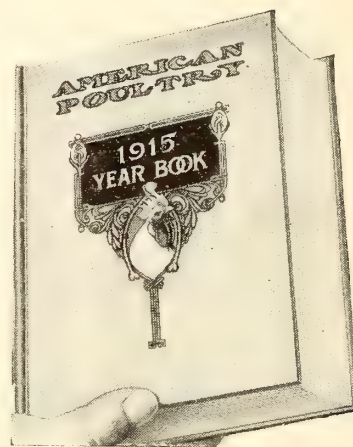
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You will then realize that the claim of the World's greatest strain has been well earned.

King Royal, first Coliseum cock bird, December, 1915, won first and champion male of the entire show in the January Greater Chicago exhibition (he being the only S. C. I. entered).

I can sell you eggs that will produce grand winners for the next season shows, and can furnish you with the best breeding and exhibition stock of any Red breeder in the world.

Write me your wants; let me know just what you need. Your correspondence and order will get my prompt and best attention.

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When you stop to consider that Royal Reds have won fifteen first prizes at the Chicago Coliseum in the past four years, while all competitors won but nine.

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Get some eggs from this marvelous strain of Barred Rocks and win the blue ribbon this coming season.

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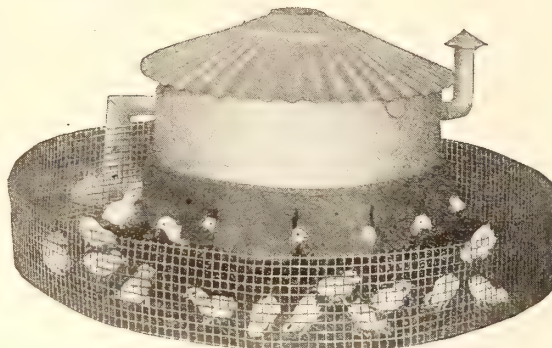
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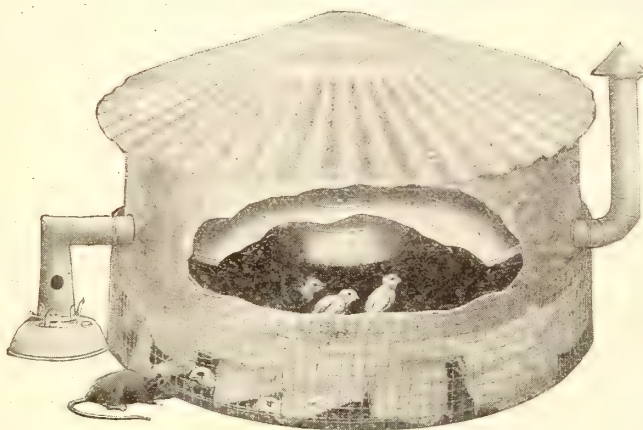


The above is a picture of a Simplex Perfection Heated Feather Brooder with netting extended as runway.

With or Without
Fire in a



Bound to
Please



Simplex Perfection Heated Feather Brooder

This shows the netting down tight to act as a rat guard; also the way the chicks hover in the natural feathers of a **Simplex Perfection Heated Feather Brooder**. This also shows the heating apparatus and the way the feathers protect the chicks. This picture was made to show the inside of the brooder; the brooders we sell have a solid body of galvanized iron and are guaranteed in every respect.

Net prices of the Simplex Perfection Heated Feather Brooders.

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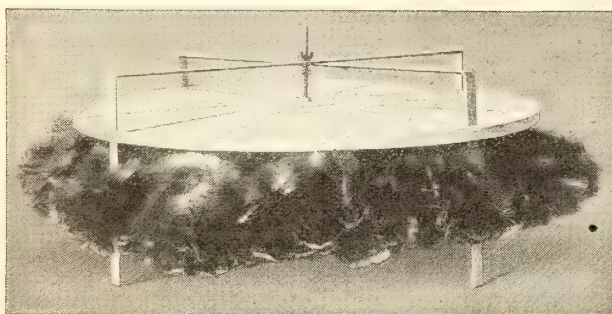
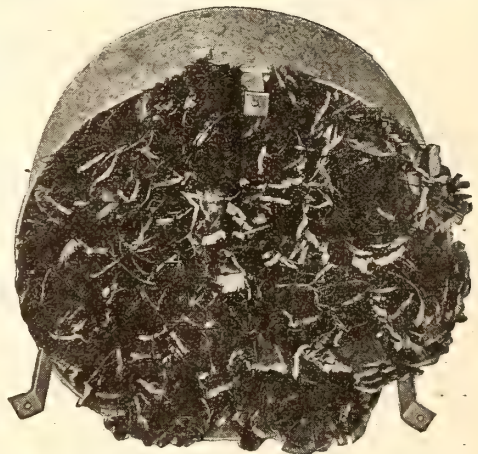
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And this is a bottom view of a **Simplex Perfection Fireless Feather Brooder**. It is made the same as the heated brooder, but in place of the heating apparatus it has an extra tuft of feathers in the center. It is used in a room where a temperature of about 60 to 70 degrees can be maintained. We recommend the fireless brooder and guarantee that it will raise more and stronger chicks than any other.

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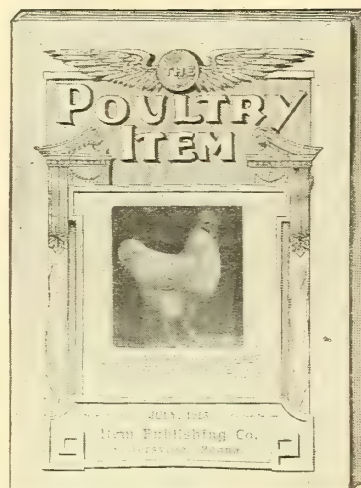
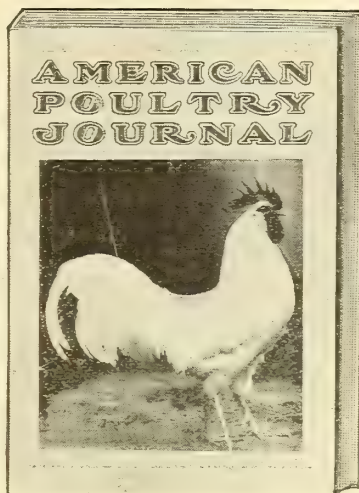
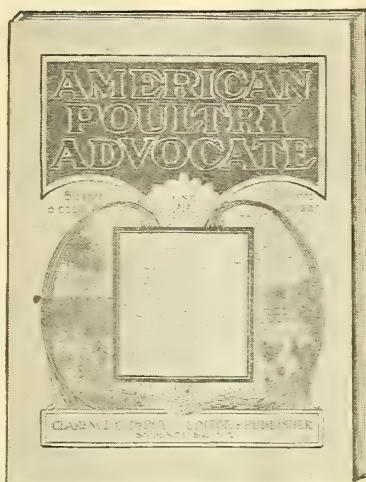
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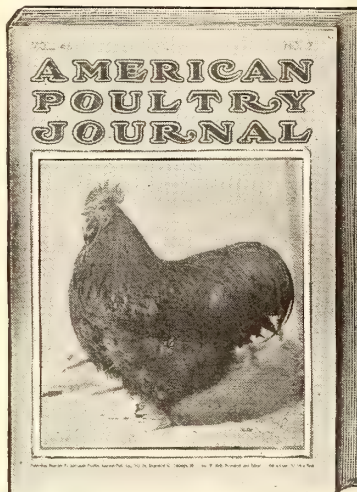
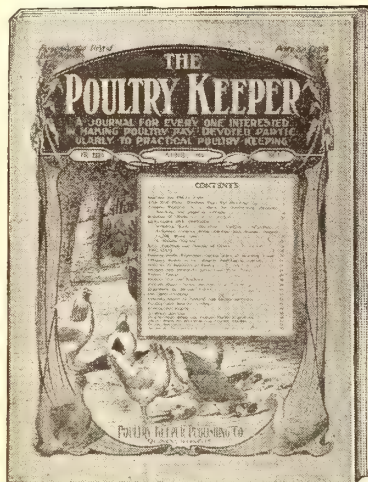
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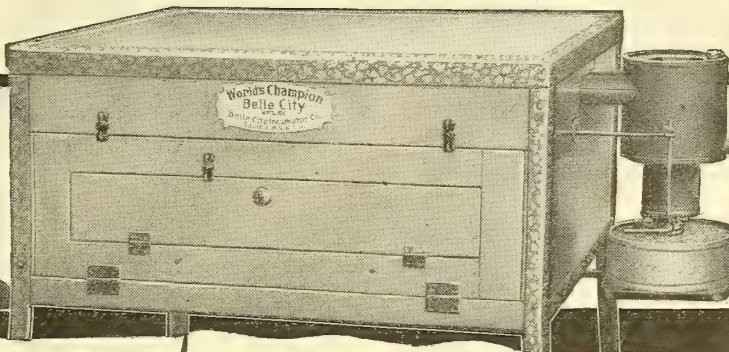
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With the Free Book comes my \$1300.00 Gold Offers for the season now beginning. Conditions so easy anyone may receive biggest pay.

Learn how I paid one Belle City user \$156.25—another \$50.00—two others each \$45.00—many others from \$33.00 down.

Get the book. With it comes my ten-year personal money-back guaranty—my low price—same as last year—freight prepaid 1, 2, 3 months' home test—everything.

Learn how thousands have made big hatches and cash profits with my 25 Times World's Champion Belle City Incubator—how my World Famous Belle City Brooder saves the chicks and raises the highest percentage—how you can make the most money out of chickens this year whether you go into it on a large or small scale.

"Simply beats the dickens
How it hatches out the chickens"

Don't let this big opportunity slip. Write me today

self-regulator, safety lamp, double walls and double door and dead air space all over, with roomy nursery and strong egg tray. "Tycos" thermometer, egg tester, sun hinge burner, funnel—everything you need, including valuable instruction book on operating, hatching and care of chicks. The book tells you all about my World Famous double walled top heat Belle City Brooder guaranteed to raise largest percentage of chicks every time—a fitting companion to my World's Champion Belle City Incubator.

This is the kind of hatching outfit that has made all these wonderful Belle City records, the very same kind of hatching outfit that I will send you if you decide to own a Belle City and join the profit makers. But first of all see my Free Book. It costs you nothing but a postal. Write me today for book, "*Hatching Facts*." Jim Rohan, Pres.

Belle City Incubator Co.
Box M27 Racine, Wis.

Get My Free Book "Hatching Facts"

Greatest book of practical hatching information ever published.

Great, big colored pictures give you an exact idea of this wonderful hatching outfit—402,000 in use—the kind used by all the Belle City World's Championship Winners—the kind used by the U. S. Government, Department of the Interior—the kind used by Agricultural Colleges—"it incubates in all the states"—the kind that won the gold-lined silver "Tycos" cup—the kind that will give you hatches that you will be proud of—the kind that will win big success and cash profits for you—the kind that will put you into the Championship Class from the start—will make you cackle with joy. Write me today.





Just Out—FREE

The new 1916 Prairie State Incubator Catalog is now ready. We want to send you a copy, FREE and postpaid. Just write your name on a postal and we will mail you one at once. Describes the famous

PRAIRIE STATE Incubators and Brooders

These splendid machines are used and endorsed by Poultry Experts the world over. For example: Prof. Jas. E. Rice, Dept. Poultry Husbandry, Cornell University, Ithaca, N. Y. writes:

"The fact that we recently purchased a number of Prairie State Incubators is perhaps the best evidence of the high opinion which we hold of your machines."

Mr. M. Kleppinger, Centre Valley, Pa., writes of Prairie State chicks: "From 1,000 chicks the loss was only 7 per cent. They have the right move and looks. When I opened the boxes they jumped out like crickets."

If you want to get the best results and

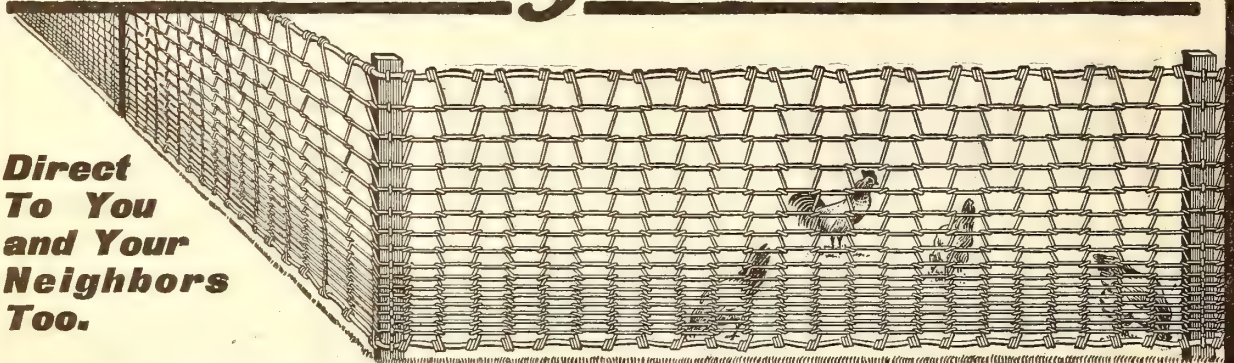
"Hatch the Most Chicks that Live"

start with a Prairie State outfit. Free catalog tells all about the exclusive features of these machines. Describes the Prairie State moistened Sand Tray which keeps the eggs in moist natural heat. Explains the Eddy Current System of Ventilation which carries off deadly gases, and supplies the necessary oxygen for raising strong, healthy, early maturing chicks. Don't buy any incubator until you get the 1916 Prairie State catalog. IT'S FREE — POSTPAID. SEND FOR IT TODAY.

PRAIRIE STATE INCUBATOR CO. 201 Main Street **Homer City, Pa.**

Poultry Fence

**Direct
To You
and Your
Neighbors
Too.**



48 Inches High 24c. a Rod. 60 Inches High 28½c. a Rod.

Not a flimsy netting but a Poultry Fence. Made of Open Hearth Basic Steel wire, drawn, annealed and galvanized in our own mill. A strong, durable, **Rust Resisting Fence** that will last for years. Closely woven—line wires only 1½ inches apart at the bottom. Stays 4½ inches apart. Positively the biggest poultry fence value ever offered at the price.

48 Inch Combination Poultry and Stock Fence 32½c. a Rod.

This extra ordinary fence has same construction as above but made much heavier. Woven close enough to turn chickens and strong enough to turn stock. Line wires spaced 1½ inches at bottom. Stays 6 inches apart. Stretches perfectly and stands up on the posts like a farm fence. Does not sag, bag or buckle. The best combination poultry and stock fence on the market for the money.

SOLD DIRECT TO YOU AT MONEY SAVING PRICES.

Large Catalog showing 100 styles of Farm, Poultry and Lawn Fence, also **Special Prices on Steel Posts** mailed free on request. Write for it today.

KITSELMAN BROTHERS, Box 295 MUNCIE, INDIANA.





Guaranteed to Raise Every Livable Chick

Thousands—yes, tens of thousands—of poultrymen are now raising every strong chick, where formerly they lost half or more of the hatch. Seems impossible, yet that is actually the wonderfully successful result of feeding their baby chicks

Pratt's Baby Chick Food

Costs Only a Cent a Chick for Three Weeks

A real baby food for baby chicks—75 per cent. predigested. It carries the newly hatched brood safely through the critical three weeks period, when losses usually occur. Prevents white diarrhoea, intestinal trouble, and leg weakness. Makes bone, muscle and rapid growth.

It Makes Chicks Live

Read what Mr. Lester Tompkins, known throughout the poultry world, as a most successful breeder says. "I have great faith in it and have had wonderful success in starting my chicks this year, having hatched out about 2,800, and I have lost less than 200, a part by hawks, crows and rain. But the little, weak chickens which we generally expect to lose within a few days seem to live and grow just as well as the others on the Pratt's Baby Chick Food."

"I cannot say too much in favor of this Baby Chick Food for baby chicks. For starting them it certainly produces wonderful results and no need of losing any chicks. I have just got to feeling I must have it when I have little chicks coming along, as they take such a start and the weakly ones brace up and seem to be as strong as the rest. You can certainly quote me as recommending it for baby chicks."

25-lb. Bag \$1.50, 14 lbs. \$1.00. Packages at 50c and 25c.

Pratt's Poultry Regulator

Keeps young and grown birds in perfect health, and thus prevents ordinary diseases. Insures early maturity. Pullets become profitable layers. Costs only a cent a fowl per month. 25-lb. Pail \$2.50. Packages at \$1.00, 50c and 25c.

Pratt's White Diarrhoea Remedy 50c and 25c.

Pratt's Poultry Disinfectant and Liquid Lice Killer

1-gallon can \$1.00, quart size, 35c.

Pratt's Powdered Lice Killer

50c and 25c, in sifter top cans.

Insist on Pratt's.

Refuse substitutes.

PRATT FOOD COMPANY

Philadelphia Chicago Toronto

"Improver" Wh. Wyandottes

Chicago Coliseum Show, 1915, 1st Young Pen, First Hen, First Pullet, Third Cock

Improvers Also Won at the Indiana and Kentucky State Fairs

Indiana State Fair—1st Cockerel, 2nd Pullet, 3rd Young Pen. Kentucky State Fair, 1915—In a class of 133, competing against the world's best breeders of the Mid-West, I won 1st, 3rd and 5th Cockerel, 1st and 2nd Pullet, 2nd Pen. My matings are equal to any in America and if you wish to improve your flock I can sell you eggs that will produce results. My birds are layers as well as winners, and an Improver pullet now leads the club pen at Missouri. My new catalog is free. Eggs, \$5 per 15; \$9.00 per 30.

L. J. DEMBERGER

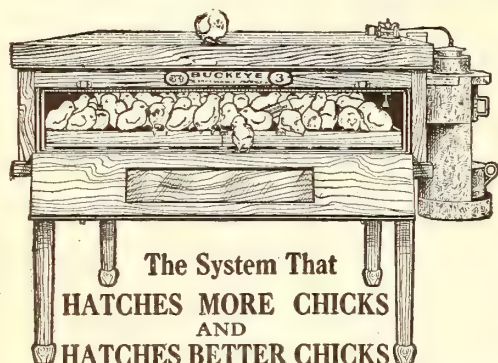
Box 89

STEWARTSVILLE, INDIANA



"Buckeye"

"The Best Incubator Made"



The System That
HATCHES MORE CHICKS
AND
HATCHES BETTER CHICKS

Than any other incubator regardless of size, price or method.

Recognized by the largest breeders and the largest poultry supply dealers as the safest and surest incubator ever built. Every machine a guaranteed success.

FOR THE BIG BREEDER the 600 egg "Buckeye" will produce more chicks and stronger chicks than any big incubator you ever owned. We guarantee that. Operated with one lamp on a quart of oil a day and guaranteed to work perfectly in any temperature down to freezing.

FOR THE SMALLER BREEDER any of the other six sizes are guaranteed to do everything the big machine will do. Even the little 60 egg "Buckeye" at \$7.50 will hatch more chicks and better chicks than any other incubator—no matter what its cost.

It's the Best Incubator Made

Not the cheapest incubator but the best.

It's the incubator that is built UP to a standard and not DOWN to a price. That's why the "Buckeye" is sold by more reliable dealers than all the others combined—that's why so many of the large, successful breeders will use no other. The "Buckeye" is sold by more than two thousand of the largest poultry supply dealers and there are over 400,000 in successful operation! Let us send you a list of some of the big breeders who use the "Buckeye" and their reasons for using it. Let us send you the names of the largest dealers and their reasons for selling it. Let us tell you about the wonderful success of the "Buckeye" system and why so many have tried to imitate it. The "Buckeye" is made in seven sizes—60 eggs to 600 eggs.

600 Eggs	-	-	\$50.00
200 Eggs	-	-	17.50
110 Eggs	-	-	12.50
60 Eggs	-	-	7.50

SOLD ON 40 DAYS TRIAL

and guaranteed to hatch every hatchable egg.

Try a "Buckeye" in the same room with any other incubator and if it doesn't hatch more chicks and better chicks the first time you try it we'll take it back.

Write for "Buckeye" Catalog and Proof of "Buckeye" Superiority

The Buckeye Incubator Co.

501 Euclid Ave.

Springfield, O.

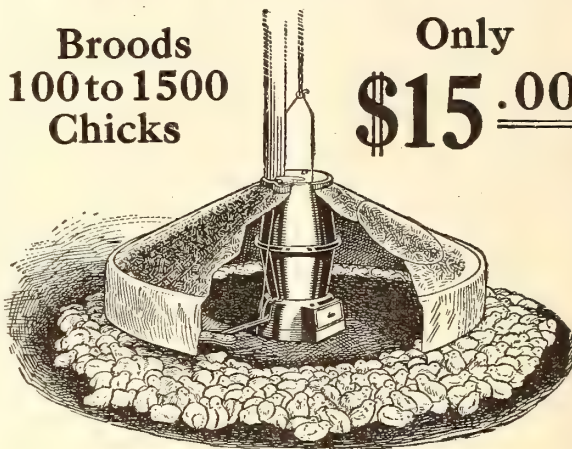
Note: Prices are a little higher west of the Rockies on account of freight rates.

The Standard

COLONY BROODER

Broods
100 to 1500
Chicks

Only
\$15.00



**The Greatest
Coal-Burning Brooder
Ever Invented**

Self Feeding—Self Regulating—Everlasting. Heavy cast iron stove that requires coaling but once in 24 hours in any temperature.

Fifty-two inch hover that will positively brood 1500 newly-hatched chicks.

30 Days Free Trial

The "Standard" Colony brooder is the most practical brooding device ever invented. It will do anything and everything that any other brooder will do and *do it better*. It is infinitely more satisfactory than brooders selling at twice the price. We are so positive that it can not fail that we will permit you to try one for thirty days and

**Write Your Own
Money-Back Guarantee**

Sold and guaranteed by dealers everywhere at \$15.00. Insist on the "Standard" and beware of imitations. Write us for a "Standard" Catalog and we will tell you how to grow three chickens where one grew before.



A Wonderful Season's Record upholds the reputation of our quality birds for splendid achievements at the shows, and in hundreds of poultry yards throughout the country.

AT SYRACUSE

Cock, 1-2-3. Pullets, 1-2.
Cockerels, 1-2-4. Hens, 2-4.
Old Pen, 1. Young Pen, 1.
Special for Best Display in S. C. B. O. English class.

AT MADISON SQUARE GARDEN

Cock, 1-5. Cockerel, 1. Pen, 2.

AT HAGERSTOWN

Cocks, 1-2-3. Pullets, 1-2-4.
Cockerels, 1-2-3-5. Hens, 2-4.
Old Pen, 1. Young Pen, 1.
Special for Best S. C. B. Orpingtons.

AT BUFFALO

Cocks, 1-3. Pullets, 2-3.
Cockerels, 1-2-4. Hens, 1-2.
Old Pen, 1. Young Pen, 1.
Special for Best Display.
Special for best Cock, Hen, Cockerel, Pullet, Special for best Pen in Show. Special for largest Display.

You should have
some of the splendid

Sunswick S. C. Buff Orpingtons

Our offerings right now are unusual. 60 splendid cockerels for the breeding yard and show-room, \$5.00 up—great bargains! Pens and trios, mated for best results, \$15 up. Also hatching eggs from matings headed by our great winners, \$3, \$5, \$10 and \$20 per setting of 15 eggs. In hundred lots \$15. Chicks, from Colony matings, 50 cents each. Sunswick's Stock, Eggs and Chicks are from the greatest and strongest blood lines in the world.

Write TODAY for mating list and catalog.

SUNSWICK POULTRY FARM

Rufus Delafield, Owner

Box J, SOUTH PLAINFIELD, N. J.

I Will Tell You How to Make Poultry Healthy

Make Hens Lay

Make Chicks Grow

Now that mating time has arrived, it's up to you to see that your poultry get a tonic and internal antiseptics to make them vigorous and free of disease. *Therefore, feed Pan-a-ce-a.*

In that condition your hens will lay better, you will get more healthy, fertile eggs and the chicks will stand a better show of reaching maturity. *Therefore, feed Pan-a-ce-a.*

And, before the hatches come, I want to warn against gapes, leg weakness and indigestion, for these ailments are responsible for half the baby-chick losses. *Therefore, feed Pan-a-ce-a—it will save you these losses.*

My lifetime experience as a veterinarian, a doctor of medicine and poultry raiser has taught me the needs of poultry under all conditions; that is why I urge you to try my scientific and long-tried prescription,

Dr. Hess Poultry PAN-A-CE-A

It's a Tonic—Not a Stimulant

Here are a few of the valuable ingredients in Pan-a-ce-a to meet the requirements of your poultry which I have just stated:

Nux Vomica, a nerve tonic; *Carbonate of Lime*, a shell former; *Hyposulphite of Soda*, an internal antiseptic; *Quassia*, an appetizer; *Iron*, to enrich the blood, and other valuable ingredients, all well known and recommended by the highest medical and veterinary authorities.

Perhaps the strongest argument in favor of Pan-a-ce-a is the fact that it has been on the market for 22 years and is growing in favor each year. Read the guarantee in the right-hand panel—that is your protection.

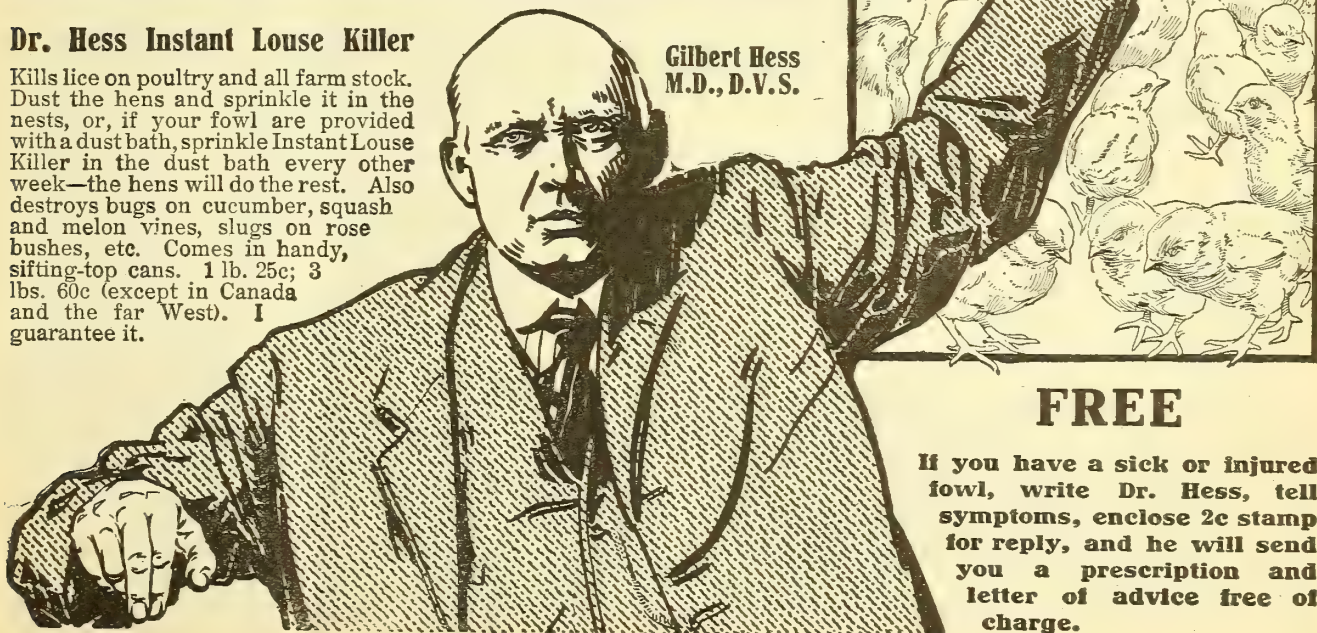
There is a Dr. Hess dealer in your town, a man whom you know, a man who stands back of my guarantee and will return your money if Pan-a-ce-a fails to make good. 1½ lbs. 25c; 5 lbs. 60c; 25-lb. pail, \$2.50 (except in Canada and the far West).

DR. HESS & CLARK, Ashland, Ohio

Dr. Hess Instant Louse Killer

Kills lice on poultry and all farm stock. Dust the hens and sprinkle it in the nests, or, if your fowl are provided with a dust bath, sprinkle Instant Louse Killer in the dust bath every other week—the hens will do the rest. Also destroys bugs on cucumber, squash and melon vines, slugs on rose bushes, etc. Comes in handy, sifting-top cans. 1 lb. 25c; 3 lbs. 60c (except in Canada and the far West). I guarantee it.

Gilbert Hess
M.D., D.V.S.



My Guarantee

So sure am I that Dr. Hess Poultry Pan-a-ce-a will help make your poultry healthy, help make your hens lay and your chicks grow that I have told my dealer in your town to supply you on condition that if Pan-a-ce-a does not do as I claim, return the empty package and get your money back.

FREE

If you have a sick or injured fowl, write Dr. Hess, tell symptoms, enclose 2c stamp for reply, and he will send you a prescription and letter of advice free of charge.

JOHN G. POORMAN
TINLEY PARK, ILL. U.S.A.

POORMAN'S

200 EGG

STRAINS

Stock, Eggs and Baby Chicks

from profitable layers is your only guarantee for success in the poultry business.

ISN'T it a serious matter when eggs are selling at 40c to 60c a dozen and your hens are not laying? Ask the man who has failed. Also ask him if he would recommend the breeder he bought his stock from.

You cannot be too careful in the selection of your foundation stock; the stock from which you will produce your future layers. I breed for eggs and can supply you with stock that will lay when the egg prices are high.

THAT MEANS YOUR SUCCESS

Eggs

I can usually make shipment of eggs promptly upon receipt of your order. I would, however, advise that your order be booked in advance. This will assure delivery when you desire them. Prices, 10c, 20c and 30c each.



LADY ALFARATA, Record 301 eggs

BUSY BESS, Record 285 eggs

Baby Chicks

I am now booking orders for baby chicks for delivery any time, weather conditions permitting. Early orders simplify matters and assure mutual satisfaction. Instruct me to book your order now. Prices, 20c, 35c and 50c each.

Buy Your Foundation Stock Now

In all of my eight varieties, namely, White and Buff Orpingtons, White and Barred Rocks, Rose and Single Comb Reds, White Wyandottes and Single Comb White Leghorns, I can supply Breeding Stock, young or old, that will produce a future flock of the kind that has in the past given entire satisfaction to over 3,000 customers. I herewith present your opportunity to start right. My free instructive catalog has helped others and will undoubtedly help you. Write for your copy today.

JOHN G. POORMAN

Box 100

Tinley Park, Ill., U. S. A.

WHITE ORPINGTONS
BARRED PLYMOUTH ROCKS
R.C. RHODE ISLAND REDS
WHITE WYANDOTTES

TRAPNESTED
BRED-TO-LAY
POULTRY

BUFF ORPINGTONS
WHITE PLYMOUTH ROCKS
S.C. RHODE ISLAND REDS
S.C. WHITE LEGHORNS

AMERICAN POULTRY JOURNAL

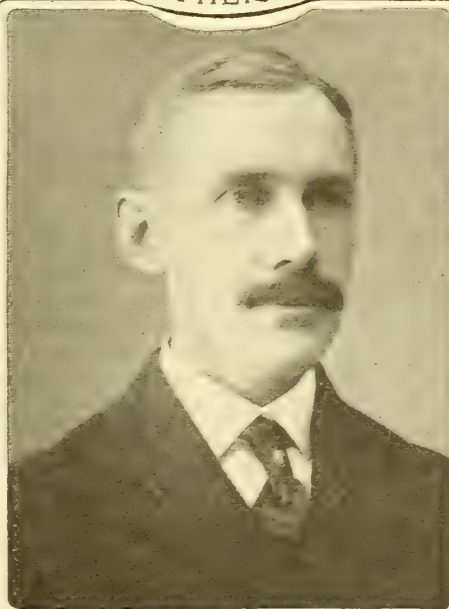
VOL. XLVII No. 3

WE LEAD

FOLLOW

OTHERS

MARCH, 1916



F. M. CLEMANS—PIONEER POULTRYMAN

F. M. CLEMANS, Mechanicsburg, Ohio, was born in Spring Valley, Ohio, in 1867. His father was a Methodist minister. When a boy 14 years old he became very much interested in poultry and poultry literature. He first took up Game Bantams and won at a number of shows. Then he bred R. C. Brown Leghorns, Polish, Brahmas and several other varieties searching for the kind he liked best. Finally, when only about 20 years old, he originated Black Wyandottes and made quite a success with them. At that time he was a regular correspondent for several poultry journals, including *AMERICAN POULTRY JOURNAL*. Some years later he became much occupied in other business interests, including lumber, merchandise and general farming, as well as being in the banking business for about 26 years. During this busy period

poultry was dropped for a few years, except that he always retained a pen-of a few "good ones" for home use and to satisfy his fondness for good poultry.

In 1902 he began more active poultry operations again and started crossing with a view to combining Plymouth Rock size and type with Light Brahma color. He was successful in originating a strain of Columbian Plymouth Rocks, which are now well known thruout the country and have become very popular. He now specializes in this variety and prefers them to any other. He has a record of 33 years as a breeder of pure bred fowls, is a life member of American Poultry Association, first vice-president of the American Columbian Plymouth Rock Club, and has won prominence as a successful breeder and exhibitor.

Successful Hatching With Incubators

What To Do and Some Things That Should
Not Be Done.

By Prince T. Woods, M. D.



EARLY IN THE SEASON when broody hens are hard to find and fickle of disposition when found, the poultryman naturally turns to artificial incubation to make sure of getting early chicks. Nowadays the choice of an incubator is not nearly so serious a matter as it was a number of years ago. There are quite a number of good ones, any one of which will yield good results if the directions are followed.

The size of the machine will depend upon the amount of hatching you intend to do. In small machines you get incubators that will hatch well that cost very little, and, if you want the very best, you can get a machine well-built, finely-finished and fully guaranteed at a very reasonable price. If you want a big hatcher, there are mammoth machines, heated by oil, gas or hot-water coal stove, of practically any capacity you may need. We have used most of the leading makes of small machines and found them all good. We have observed the work of the mammoth machines of the leading makes, and find that all of them have users who are ardent advocates.

The beginner, when selecting a machine, will do well to consider carefully the reports of actual operators of the incubators, to call upon neighboring poultry plants and get the testimony at first hand. Try to get an unbiased opinion from some man whom you know to be successful and whose advice you are willing to follow. Don't ask which is the best machine, after using a dozen different makes and getting good

hatches out of all of them, we positively do not know which is the best incubator.

If you are going to buy an incubator this spring, better get your order in now. The longer you put off ordering, the longer you will have to wait for your machine. When you get the machine and remove the crate, get the instruction book out of the egg chamber and read the manufacturer's directions before you do another thing. You will find advice about setting up the machine, about location, and how to operate. Read and digest these directions before you begin setting up the incubator.

The best place to operate an incubator is in an incubator cellar. The next best place is in a well-ventilated room in a house cellar, where the machine will be away from the furnace or house heater, and where the temperature of the room can be kept fairly uniform and between 50 and 60 degrees F. About the worst place to operate an incubator is in a house living room or in a shed-roofed building at ground level. Some good hatches have been had from machines operated in kitchens, but we prefer a good cellar. The incubator room should have an abundant supply of fresh air without drafts and without too great changes in temperature.

Level up the incubator before you start to heat it. Block up the legs until you get it level and be sure that it sits firmly in position. When warming up the machine do not try to get too much heat at first. Go slow and let it warm gradually. It takes quite a while to get it up to temperature the first time and to dry out the moisture and take the chill out of the packing. Don't be in a hurry. As the temperature begins to climb, watch the thermometer and be ready to adjust the regulator when the proper degree of heat, as stated in the directions, is reached. Let the machine run empty for the first three days and be sure that it is adjusted so that it will maintain a fairly uniform degree of heat. The first time it may take several adjustments to get the regulator just right. When you secure the proper adjustment, let the regulator alone and do not let anyone else monkey with it. Run with a medium size flame on the lamp or gas jet. If a coal heater, run with a fairly low fire. Keep things clean.

Before warming up old incubators be sure that they are well cleaned. Use some good saponified cresol disinfectant to cleanse and purify the interior of the hatching chamber. Keep trays and hatching chamber clean. Don't start a new hatch until you have thoroly cleaned up the machine from the last hatch. Don't fail to follow the manufacturer's instructions.

When you have the incubator warmed up, regulated and running nicely, everything is ready to start the hatch. While an experienced operator can hatch the eggs from several varieties at the same time in the same machine, it is not to be recommended for beginners. Better use eggs all from the same variety in the same hatching chamber. The fresher the eggs are when set the better. The more uniform in size and shape they are the better. Do not try to crowd the egg trays, get them full, but do not double deck the eggs or stand the eggs on end. If you get anywhere near the rated capacity of eggs into the machine you will have plenty; generally you will fall quite a number of eggs short of that number. There is no advantage in crowding the egg trays, it only makes the eggs harder to turn and results in greater breakage.

Begin turning the eggs the second day of incubation. We like to work the eggs from the ends of the tray toward the center of the machine, and accomplish this by removing the two middle rows and rolling the others toward the center, placing the eggs removed in the vacant spaces left at the ends. We really do not like flopping the trays, using an extra turning tray for the purpose. Turn morning and night. Turn trays end for end in morning and from side to side at night.

Cooling the eggs is something that can be learned only by experience and that depends upon the machine you are operating. It also depends upon the temperature of the incubator



First Golden Campine pullet, Madison Square, 1916. A bird very distinctly barred, legs and toes a perfect leaden-blue, undercolor a perfect slate. Bred and owned by M. R. Jacobus, Ridgefield, N. J.—P. K. W.

room and the season. Nearly every incubator furnishes special directions for cooling. Ordinarily in a cold room the eggs get enough airing at first while being turned. After the first week it is usually a good plan to cool the eggs from five to

window. The hole has felt about the edges and is made to fit the egg, just as a tester fits it. We do not practice turning the eggs on testing day, as we think that they get handling and airing enough when being tested.

We make the first test on the sixth or seventh day, when the embryo can be clearly seen, as a dark movable body surrounded by a spidery network of bloodvessels. Skill in testing only comes with experience. Generally novices had best wait until the fourteenth day when the eggs with live chicks in them are easily distinguished from clear and blood streaked eggs. The clear eggs are the infertiles and the ones with a single irregular blood streak or a mixed watery appearance are the dead germs. Testing is well illustrated in the book "How to Raise Chicks."

We generally make a second test on the seventeenth or eighteenth day, so as to free the machine from all dead or rotten eggs and give the other eggs a better chance to hatch and more room for the new born chicks. We stop turning the eggs as soon as the eggs begin to pip, (when chicks begin to break the shell).

Unless the weather, or the room, is fairly warm we do not let the chicks fall into the nursery below the trays until the hatch is well along toward completion. When the trays begin to fill up with chicks we open up the drop and let the most active ones fall into the nursery.

It is a good plan to close the machine and let it stay closed after the eggs begin to pip. Novices will do best to let the machine alone at hatching time. If you have the lamp clean and burning with flame at proper height, and have had the regulator working properly thru the hatch, you can't help matters much by meddling any at hatching time, and you can do a good deal of harm. Just watch and see that the temperature don't run above 105 or 106 and let the hatch work out its own salvation.

The chicks should stay in the machine until well dried out and good and hungry. This is usually about 36 hours. The hatch generally starts on the 20th day and is all cleaned up by the end of the 21st. If there is delay, you probably have either cooled the eggs too much or run at too low a temperature. Always be sure that you run the machine with an



H. Cecil Sheppard, Berea, Ohio, owner and breeder of the above first S. C. Ancona pullet at Madison Square, 1916, can justly feel proud. This makes his tenth big consecutive win at the Garden.

fifteen minutes once a day, and in hot weather the cooling may be considerably longer. We generally cool eggs a good deal and rely on the feel of the eggs to tell us when they are cooled enough, and that generally is when they feel just warm when touched to cheek or eyelid.

Do not handle or work with the lamp until after you have turned the eggs and returned them to the machine. Don't handle hatching eggs with dirty oily hands. Keep the lamp cleaned and filled; clean and fill it once daily, or oftener if necessary. Keep the wick trimmed and the burner and wick tube bright and clean. Just remember that burning twenty-four hours a day for more than three weeks, is a pretty hard job for any kerosene lamp and that it needs careful attention.

While all manufacturers furnish directions as to temperature, which should be followed, we have found that the following temperatures are about average where we get our best hatches:

Period of Hatch	Temp. of Incubator	*Temp. of Egg
First week.....	102 to 102.5	100 to 101
Second week.....	103 to 103.5	101 to 102.5
Third week.....	103.5 to 104.5	102.5 to 103.5

*Temperature of egg is obtained by having thermometer bulb rest between and just touch the shells of two fertile eggs. There is generally a sudden climb in temperature between the fourteenth and fifteenth days due to movements of the embryo and this must be met by adjustment of the heating device. We don't bother the regulator, but gradually reduce the lamp flame after the second week. Of course, one must be governed somewhat by the weather conditions and must carry enough flame on the lamp to take care of sudden night changes to colder weather.

We like to test eggs either by daylight or by use of an electric lantern. Sunlight or electric light is the easiest light to test by and shows up the egg contents best. With an electric lantern that has no testing attachment, we simply use our hand over the light with an egg between thumb and forefinger, —practically making a tester of our hand. We can work very quickly that way. For a daylight tester we simply darken the room and use a board with a hole in it, placed in a sunny



If this picture was printed in colors, you would see the beautiful lustrous black for which these birds are noted. Just notice how perfectly marked she is. Winner of first R. C. Ancona pullet, Madison Square, 1916. Bred and owned by H. Cecil Sheppard, Berea, O.

accurate, tested thermometer. After hatch is off and chicks are all in the nursery, we generally open the hatching chamber door about the width of a common match and fasten it in that position to afford better ventilation.

The brooder should be waiting all warmed up, ready, regulated and waiting for the chicks when the hatch is off. We like to move the chicks to the brooder in the afternoon, so that they can have their first food and drink and then go to bed under the hover for the night. This plan makes getting them started right a much easier matter.

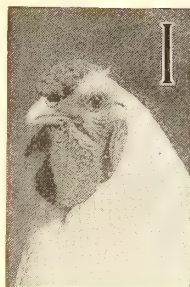
Do not get worried because some eggs don't hatch and quite

a number apparently full sized chicks are found dead in the shell. You get some chicks dead in the shell when you hatch under hens. Possibly if the same lot and number of eggs had been incubated under hens the loss from chicks dead in the shell would have been proportionate. Beginners, because they follow the directions closely, generally have pretty good luck with their first hatches. Sometimes they fall down on later hatches because they trust too much to memory and too little to the printed rules, or because they have grown careless. The moral is: Stick close to the manufacturer's printed instructions for incubator operation.

Practical Pointers for Month of March

Profits in Late Hatched Chicks—Poultry Yard Pests—The Indispensable Disc Harrow—Planting Trees in the Poultry Yard—Handy Stone Boat—"Preparedness" for Parasites.

By Maurice H. Decker



IF ONE COULD KNOW to a certainty just what sort of weather we were going to have this spring, it would be a valuable aid in planning upon what dates to bring forth the largest percentages of hatches. It has been our own experience that the early hatched chicks, those hatched from February to the first of April, are not always the most profitable ones of the season. When we experience the sort of cold, wet, late spring as fell to our lot last year, there are a good many flocks of early chickens that cost

more to rear than they ultimately bring their owners. A chick hatched in February requires a lot of skillful care if it is going to make rapid growth and be as vigorous as one that pips the shell in the more favorable weather of April and May. One has always to reckon with slow growth, higher cost of feed (if artificially brooded) and greater mortality with the early birds, conditions which collectively tend to send the cost of maturing layers or market fowls skyward.



Carolina poplar tree planted in dynamited hole. (See article Practical Pointers for the Month of March.)

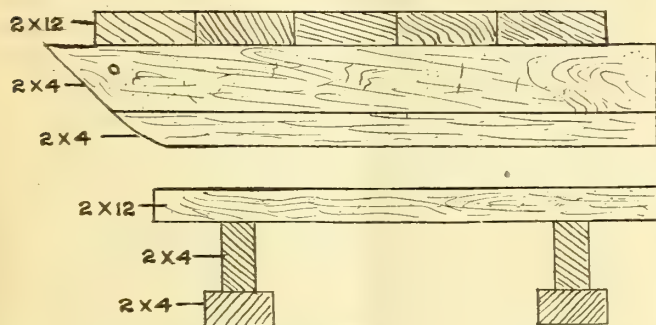
The opinion that a pullet must attain her maturity before cold weather sets in if she is going to make any sort of a showing at all in the production of winter eggs, seems to be pretty well established in the minds of many poultry keepers, but we find this rule to be far from infallible and quite the contrary to be possible. We have had numerous instances when pullets did not come to the six to eight months age necessary for maturity until mid-winter and which promptly responded to good care and feeding by cheerfully shelling out a good percentage of eggs in January and February. It is true these eggs do not bring as high a price as those marketed in the fall and early winter, but they cost us a whole lot less to produce, and it is always the difference in the cost of production and the selling price that determines profit or loss.

To sustain these statements I am going to give the facts and figures of the performance of two of our late hatched flocks of pullets. As these flocks were of different breeds, it will not be possible to put the credit of their showing upon their possessing special favorable characteristics, such as quicker maturity or less susceptibility to weather changes. The first flock, a bunch of forty-four White Leghorns, were hatched on July 10th. They were raised until November first, with very little actual expense, having the run of corn-field, orchard, and potato patch, where they foraged for the fallen grain, fox-tail grass seed, wind-fall fruit and cull potatoes. At this date they were confined to a small open front laying house and fed liberally on corn in the ear, more cull vegetables and milk, cheap feeds upon which they made rapid development. As these fowls had become accustomed to eating new corn while running in the corn-field, we were able to feed them heavily on the fresh husked grain, with none of the usual difficulties that result from its use. This alone saved considerable of the cost of wintering, for dry, old corn was extremely scarce in our locality that year. We always feed quite a lot of new corn every season to our fowls and have found if the grain is not actually musty or heated, which it seldom is when cut when ripe, and set up well in medium sized shocks, that they do very well upon it. To get the birds accustomed to the fresh grain we always have a good sized patch of sweet corn and begin to throw them a few ears of this before they are given the run of the field corn lots. This sweet corn and what fallen ears of the other they find, gets them in shape to digest without trouble the new grain which is given in gradually increasing amounts each day.

Laying rations were started on these Leghorn pullets the first of March and from April until September they layed exceptionally well. During this period they gave a yield of 246½ dozen eggs in all, and by the middle of the month, when the last one had been marketed, we found the flock had given the following account of themselves:

246½ dozen eggs.....	\$58.19
Value of manure.....	6.50
44 hens at 60 cents.....	26.40
Total income	\$91.09
Cost of feed consumed.....	45.20
Profit	\$45.89

We sold these hens when crate fattened at sixty cents each, part going in one lot for a wedding celebration, and the balance to special customers with small families that preferred a market fowl of proportionate size. It is said of the Leghorns that they lay heaviest in the months when eggs are cheapest, and this is usually true, but as these months are the



Drawing showing construction of handy stone boat or sled described in article "Practical Pointers for the Month of March."

ones during which we can maintain a laying flock the cheapest, we find that a reasonable number of extra late hatched Leghorns fit well into the management of our farm, especially when they give us as good a yield of summer eggs as this flock did.

The second flock consisted of eighty Barred Rock and Silver-Laced Wyandotte pullets hatched June 26th, which were originally intended for market fowls only, but after they began to show a steady yield of eggs we kept close record upon their performance in order to see just what profit these heavier fowls would show under the handicap of such a late start in life. They were put in winter quarters September 15th, and by the middle of February were laying an average of 35 eggs a day, and when sold for market or table poultry on the 10th of March, this flock had layed a total of 91 dozen, and showed a profit of \$31.05 over the cost of their keep. The itemized account of this experience is as follows:

91 dozen eggs at an average of 35c.....	\$31.85
80 pullets at 18c per pound.....	79.20
Cost of feed at \$1.00 each.....	\$80.00

Profit\$31.05

I believe the reasons for the failure of so many late hatched flocks are these: First, they are too often regarded by the poultryman as an established source of loss and from the very start are neglected and fail to receive the same good care the earlier birds are accorded. Second, the breeding stock responsible for their being is usually exhausted by their work of laying which probably commenced very early in the season, and they are thus handicapped by nature with a lack of strength and vigor so often astonishing in the chicks hatched from a hen's first laying. Third, there is usually a lack of green food about the ordinary poultry yard in the summer months when these late hatches are due, a contingency the successful raiser must be careful to correct. Fourth and last, but by no means of least importance, if one expects pullets to begin laying at the time they reach their maturity, they must be housed correctly and in such a manner that outside temperatures and conditions have the minimum of effect upon their well-being. And this does not mean a closed "warm" or heated house. Both of the flocks mentioned above were wintered in a Woods' Open Front house, a point to which I attribute the reason for their promptness in laying as soon as the laying rations were commenced. Fowls entering the winter in a partially developed state have all they can do to hold their own if confined to the old style of closed damp building that is stifling and hot upon bright and sunshiny days and damp and dreary when the outside temperature lowers, and poultrymen should not expect them to continue their growth and begin laying when the proper age is reached.

My advice then would be as follows: Do not pin all your hopes to the early hatched fowl. It has its own special value and is necessary upon every successful plant, but does not represent all the profit possible in poultry. Hatch a few late ones from eggs layed by hens unexhausted by heavy production the four months previous, give them all they can eat,

not necessarily expensive foods, house them in fresh air sensible buildings and watch them grow and make money for you.

* * *

Every year we are confronted with the task of cleaning out the "varmints" which somehow or other are just as numerous as ever each spring, no matter how strenuous our efforts of the season past have been. Sparrows, pigeons, red squirrels, crows, weasels, rats and mice, all flock to our farm when warm weather opens up, timing their arrival with miraculous accuracy to the exact day we fix up and fill up the outside grain and mash hoppers. English sparrows appear to be the most common and numerous of the pests the poultryman has to contend with, their forms of annoyance being manifested by their unlimited appetite for cracked grain and chick food, and their tendency to spread and carry parasites. A flock of fifty sparrows will eat daily over a quart of wheat, or its equivalent, and if the hens are fed in the open and the food hoppers placed in accessible positions this regular allowance comes out of the poultryman's profits and foots up to a substantial amount in the course of a season. I have seen farms where I would wager there were nearly a thousand sparrows and probably one-third as many rats, all of which were regular boarders and were waxing fat and prosperous. Prompt work in killing off the sparrows in the early spring will do much toward insuring a freedom of their presence for the rest of the year.

Altho English sparrows are widely distributed as a species, individuals and flocks are to be found upon extremely narrow ranges, each group occupying one locality to which its activities are chiefly confined. Thus if you reduce to a minimum the particular flock that is favoring your premises with its presence, you may be reasonably safe in expecting freedom from their annoyance for a few months to come. Last year we got tired of plugging away at them with the .22 rifle, so we instituted proceedings of a more wholesale nature against them. We put out a few small piles of chick feed, scattering it in a long narrow strip and when the sparrows were thick enough to warrant good results let fly with a 12 gauge, loaded with number 10 shot, shooting parallel to the long dimension of the strip of bait. This worked very well for a while and what few were left we shot individually.



Poplar tree of same age planted in spade dug hole. (See article Practical Pointers for the Month of March.)

If one lives where the use of fire arms is practical the best weapon for dealing with all varieties of poultry yard pests as sparrows, rats, etc., is a single barrel .44 caliber shot gun, which can be purchased for a little under \$5.00. This little gun is very effective upon small animals, a miss is of rare occurrence and a boy or woman can handle it perfectly, being light and possessing no recoil to speak of. Where the use of poison is not restricted the few remaining gun-shy individuals that are left after a shooting campaign can be poisoned by putting a mixture of strychnine and chick food upon the roofs of some of the poultry buildings. The proportions are one-eighth ounce of pulverized strychnine in three-fourths of a gill of hot water to which is added one and one-half teaspoonfuls of starch moistened with a little cold water and then put over the fire and stirred until thick. This is then

inside this pen with you and you will make a clean sweep as you go. The main thing to do if rats are increasing in numbers is to keep all food and grain in rat proof containers. This will discourage the pests as much as any thing. We have been using small galvanized iron water tanks four feet across and two feet high for storing cracked grains and dry mash. These tanks are cheap, will never wear out, hold six to seven barrels of feed and are perfectly rat and mouse proof. Smaller or larger sizes can be obtained at proportionately cheap prices to accommodate any quantity of poultry food and they should easily save their cost in food alone in a couple of seasons. It has been figured that a full grown rat consumes around 75c worth of corn each year and this sum would probably be doubled if he ate commercial hen food instead of the cheaper corn.

There is one implement upon our farm which we find nearly as useful as our incubators and brooders, and which strange to say, we have noticed upon very few of the poultry establishments we have visited. This is a small disc harrow. This tool we find to be invaluable in keeping poultry runs in sanitary shape and in growing sufficient green food to supply all ages of fowls. Among the things it does about our place are the following: It plows up the manure coated yards to a depth of five to six inches, preparing an excellent seed bed for rye, oats, timothy, clover or turnips. The rich ground grows a heavy crop, and after the hens have taken all they wish, the remainder is cut up and mixed in the soil by another round of the harrow. Last year we used it to dig small shallow ditches to drain several low wet places about the buildings and in the yards where surface water collected in sufficient quantity to make things disagreeable, and a couple of rounds on the line where we put in a concrete foundation wall saved about 50 per cent of the labor of excavating the dirt.

* * *

We can work up closer around our colony houses and young fruit trees with the disc than we can with the plow and if it had not been for this implement we could never have kept down the weeds as well as we did last Summer. I never saw such a favorable season for weeds as that was, but the "little old disc" ground them down into the earth in short order. Where one has high close meshed wire fences about his runs, it is impossible to plow up close to them when it is desired to dig up the ground as the double or single trees will catch in the light wires and soon ruin the fence. Now we plow up as close as we safely can and then go in and finish the job with the disc harrow. The disc is invaluable to mix in the annual coating of lime which every intensive poultry farm should receive each year or to work in the bone meal or acid phosphate to help balance the fertilizing properties of the hen manure. Our harrow possesses eight 18-inch blades, cuts a four-foot strip, is easily pulled by two horses and costs us less than \$25. We regard such a tool as indispensable to the poultryman, gardner and fruit grower. Ours has been in use more days in the year than any other farming implement we have, not excepting even the hoe.

* * *

The possibilities of the profits arising from a successful combination of poultry raising and fruit growing is, I believe fully appreciated and in addition, I believe no one questions the superiority of dynamite when properly used for digging holes in which to plant the trees. I hope I will not be considered as trespassing upon Mr. Riggs' department if I submit a couple of photos to show the results we obtained with our Spring plantings of last year. The largest tree was put in a dynamited hole while the smaller one was planted by the commoner method of using a spade. The unusual difference between the two trees was a source of considerable surprise to me, for I had held the opinion that the good results arising from the use of the explosive were of more gradual growth. We planted six trees, all of about the same size, by each method last year and the two shown here are not the extremes of either side, but just good averages. The trees in the spade holes remained dormant for nearly six weeks before they showed a single bud and I thought surely some of them had died. On the other hand the others in the dynamited holes made quick starts and gained their present advantage in the first three months. Our first experience with the good



Sex-control-bred Black Langshan hen given as a prize by Herb E. Sharp for best Langshan article. Article was published in January American Poultry Journal. This was first hen from Spokane, Wash., to attend the Boston, Mass., Show. She was won by J. F. Robinson, of South Weymouth, Mass., and she was awarded first prize in the utility class at Boston. Her record is 22 chickens from 28 eggs, 18 of the chicks pullets and 4 cockerels. Mr. Sharp says she will produce 70% pullets or he will replace her with another hen that will.

poured over one quart of cracked grain and thoroly stirred. We have had best success in ridding our farm of rats by the use of traps. We use the French wire cage traps that catch the animals alive and which are carried by almost every hardware store. These are baited with fried bacon or toasted cheese and placed where rats are in evidence. You will catch more in one night by covering the body of the trap with a little straw, and by leaving one rat in the trap as a decoy. We have never had any success with the rat serums or micro-organisms that are sold for the purpose of exterminating rats. They are very costly, and depreciate in strength with age and warm weather, and altho we have put out considerable of this bacteria we could never notice any decrease in the number of rodents.

Once a year anyway we should all go over our premises and clean them from under woodpiles, brush heaps and colony coops. If you are certain a particular pile of rubbish or trash is harboring a number of rats just put four woven wire panels, such as you use to confine small chicks, about the pile before you start to tear it apart. Then have a good dog

results of using the explosive was obtained when we blew out twenty old apple trees and placed new ones in the same holes. I never saw trees grow as those did, and after that we determined to put out stock, in no other manner.

We found it easy to use the stuff without previous experience and did not suffer the loss of a single pane of glass, altho windows were present in good number all around the scenes of our operations. One 8x8 A-shaped house with glass windows sat within eighteen feet of one large tree that we lifted up with five sticks of dynamite and came thru unscratched. We did not aim to blow these trees out entirely, just lifted them out of the ground a little so the principal roots could be cut and the tree pulled over. Also the noise did not seem to make any difference in the hens laying or our hatching averages.

We certainly had our share of disturbances that year for just about the time we put 1,400 eggs in the incubators in early March, a neighbor took it into his head to blow out a ten-acre patch of nice solid oak stumps, and the way our house shook and rattled, we thought sure there would be few if any chicks on the date they would be due. This blasting was about the most strenuous I have ever seen, as pieces from the big three foot across stumps were blown up nearly out of sight and this only less than a quarter of a mile away. Well, the facts are, that we could see no difference in the averages of these hatches, as we got around our usual 75% results. Does this put a crimp in the time honored theory that thunder destroys the germs in fertile eggs? Lets hear what some of our other poultrymen have to say about this.

* * *

The poultry farm that keeps one or more horses will find the stone boat, or sled, illustrated in the accompanying drawing, a very handy contrivance for moving brooders and small colony houses, for drawing feed out to the various hoppers and for moving potatoes and apples, etc., up to the house or cellar. The combination of the two 2x4s that form the runner eliminate the hardest part of making such an article. It is not necessary to hew logs or limbs into curved runners or to seek natural growths of similar form. The illustration shows how we make the runners out of two pieces of 2x4 timber, bolting one on edge to the other lying flat upon its wide surface. This wide surface of the bottom piece prevents the sled, or boat, from cutting down into the ground and the upper one gives the contrivance height and forms supports upon which to nail the plank floor boards.

* * *

If you will give all colony and fixed houses a good spraying with a mixture of kerosene and crude carbolic acid *now* before you even see any of those devilish little red mites, you stand a very good chance of eliminating 80% of the troubles you might have with them if you let the job go until they make their presence known by hanging in red knots upon the roost poles. When hot weather does set in, they will multiply by leaps and bounds and in all probability you will be too busy with the chicks to notice their presence the minute they begin to constitute a serious menace to your fowls. I try to do as much of my busy work right *now* before it begins, and making away with as many of these pests before they have opportunity to increase is one of my most important "*preparedness*" jobs. Likewise now is an ideal time to put a crimp in the activities of the lice upon the bodies of your hens. If they are few in number (the hens) you cannot do better than treat each with one of the standard lice ointments advertised in this *Journal*. If the flock is too large for individual treatment, a careful cleaning out of the nests, and a renewing of the nesting material and dust baths will accomplish wonders and with little effort upon your part.

* * *

If you can secure good dry one to two year old corn in the ear it will certainly be to your advantage to make your own chick food rather than run any risk with the ready mixed mill brands. I have used nearly every brand of chick food upon the market here, and my experience is that no matter how much care is taken in its preparation sometime or other you are going to run across a bag or two that will be risky stuff to give to your chicks. When we have good

corn as mentioned above, we get it ground along with half as much wheat to about the regular chick size, and then sift the meal out over a 14 mesh to the inch screen. Then we add to this finely cracked mixture, 50% steel cut oats of "B" size which is the same as hulled oats, pin-head oats, etc., and we have as good a chick food as we have every used. We have found that we can buy these oats or oat meal (not rolled oats) from the large catalog grocery houses cheaper than we can get the grade used for feeding poultry from our feed dealer. We prefer to have plenty of good solid corn and plenty of steel cut oats in our chick food and not so much fine grit, millet, cracked peas and "what not," and we can make our own mixture much cheaper than we can buy the ready mixed whose proportions and composition it is not always easy to discover.



First prize Silver Campine pullet at Brooklyn, N. Y.; also winner at the Panama-Pacific Exposition. Owned by Martling Hennerly, Ridgefield, N. J.

Internal Temperatures of Eggs During Incubation.

(EYCLESHYMER)

Day of Incubation	Natural		Artificial	
	Hen	Egg	Incubator	Egg
1	102.2	98.0	102.0	99.5
2	103.0	100.2	102.0	100.0
3	103.5	100.5	103.0	101.0
4	104.0	100.5	102.0	100.5
5	103.8	100.4	102.5	100.5
6	105.0	101.0	103.0	101.0
7	104.6	101.8	102.5	100.0
8	104.5	102.5	102.0	100.0
9	105.0	101.6	103.0	101.0
10	105.0	102.0	103.5	101.5
11	104.8	101.8	103.0	101.5
12	105.2	102.2	103.5	101.8
13	104.5	102.0	104.0	102.0
14	105.0	102.5	103.5	102.5
15	105.2	102.0	104.0	103.0
16	105.0	103.0	104.5	103.0
17	104.6	102.4	104.0	103.0
18	104.8	103.0	103.5	102.5
19	104.5	103.0	104.0	102.5
20	104.5	103.0	104.5	103.5

Beautiful, Useful, Silver Gray Dorkings

Helpful Advice on Mating Stock and Crowing Chicks, by a
Successsful Veteran Breeder. *By Watson Westfall, Sayre, Pa.*



WE HAVE IN AMERICA today nearly every breed of fowl known. There are all kinds of sizes and colors, yet, with all this, new breeds are being made every year. It is said that in some of the old countries poultrymen will have one certain breed of fowl for years, passing it along from one generation to another. What a rare thing this would be to find with us in America. Here fancy in poultry seems to change about as often as in other things. For example, one while we will be wearing soft hats, loose fitting clothes and broad-toed shoes;

while at another time our fancy will be for derby hats, tight fitting clothes and pointed shoes. This is called style, but it looks more like foolishness. Yet how much of the same disposition is seen with many people keeping poultry. It is not our intention to knock any of the new breeds. We say all honor to the man who can produce something really good *and something really new. But we do think these new breeds should remain in the hands of professionals for a long time before amateurs or novices try to breed them.*

A real professional will be well satisfied to get as little as half a dozen birds to suit him out of as many as fifty, but how about the novice just starting? Will he get discouraged and disgusted and give up the whole thing? How much better to have chosen some old and well established fowl, getting eggs to produce a large percentage of well marked chicks and, naturally, then becoming a real poultryman at once. Take now our own experience, the first fowl we ever bred, with any intention of making it a business, was the Silver Gray Dorking. This was as far back as 1879 and we have kept this one variety of fowl exclusively ever since. Our first attraction for this particular fowl was their beautiful contrast of colors, together with a most unusually attractive form and carriage. We made our start in the Dorking fowl with a setting of eggs from which we produced five pullets and three cockerels. The pullets began laying in December, tho not hatched until June. We were very highly pleased with these chickens from the day they were hatched. Wishing to make some test of their laying qualities, we began a record on the first day of January, 1880, and a faithful count kept for the following eight months showed 700 eggs for these five pullets. Needless to say such a record was very satisfactory indeed to us and settled at once the great question of eggs.

Some years later we kept some records of the growth of some of our chickens, weighing them several times during the season. A little the best record was made with some chicks we had raised on a farm. These were weighed five times as follows:

Month.	—Cockerels—		—Pullets—	
	Pounds.	Ounces.	Pounds.	Ounces.
1st.	1	2½	0	13¾
2nd.	3	0	2	6
3rd.	4	13¾	3	13½
4th.	6	8½	4	12
5th.	8	6½	6	3

If these records have ever been beaten we, in our earnest search, have failed to learn about it.

As table poultry Dorkings are surely superior, this even our severest critics are quite willing to admit. What would we think of trying to eat specimens of most breeds of fowl when five or six years old? As a matter of fact we know that even at this old age the Dorking is still tender and fine eating.

Up to the present time we have used only the hen for incubation. We dust her with some good lice powder three or four times during the time of setting, and then when she is put out with her brood we dust her again. For the chicks we use a mixture of one part carbolic acid with twenty parts of olive oil. This mixture we put on the heads of the chicks as we put them with the mother hen. The simplest and safest way to apply it we have found is with a big wire spike. If there are any of the large gray lice they get on the chicks' heads. This preparation will kill the lice before they have an opportunity to do any damage.

For the first day we have found nothing better than bread crumbs for feeding the chicks. After this we begin with almost any good grain chick food. Of late years we have been thoroly converted to the dry mash method of feeding growing chicks, and we get them started on the mash just as soon as we can, which is generally at from five to six weeks old. Not does the mash grow them larger and better, but it keeps them from foraging so far away from the house. We make our own feed hoppers and we have lots of them, so that there need be no crowding to get the mash. Considerable attention is given the chicks as to how they are resting at night, both before and after they are weaned. We usually take the old hen from her chicks as soon as they have grown their neck feathers, as we find that they do better.

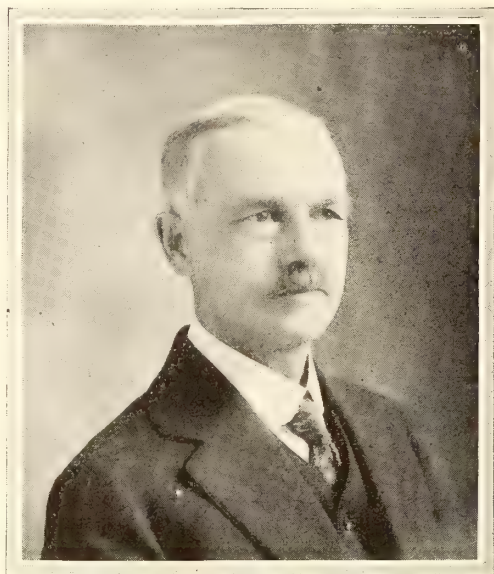
Our coops are box shape, and as soon as hot weather comes we take off the rear bottom board and put slats on so as to let in pure air. After the hen is taken away from them and we have warm nights, if we find them bunching up together, we put a block of wood at the rear end of coop for some of them to get up on. This plan

will carry them along till two or three months old, when they should either have a hole put in the coop or else be put into a larger house. As soon as the chicks are feathered they must have the pure air at night and be able to rest at night without crowding. If a chick has to roost in a bracing, crowding position it is sure to grow up deformed.

The pair of birds in illustrations accompanying this article are shown just as the camera caught them, with no retouching whatever, and we trust that they will give the reader a good idea of the real beauty of form and feather of these interesting fowls. The pullet was hatched about the first of May and the cockerel three weeks later.

Our Standard of Perfection requires nearly all fowls to be full breasted, but how many are really that way? This heavy breast development, so much wanted, comes very naturally with the Dorking, but with most fowls it takes years of time and attention to get even a part of it. The male, being black and white, shows in nearly his natural colors, but the female, having salmon red breast and some delicate shading of color on other parts, does not show quite as natural in a black and white picture.

We have a new 1915 Standard which says the Silver Gray Dorking has a slate under-color which we find true for the female, but seems like a mistake for the male, unless they mean black slate. We find a black base for the white



WATSON WESTFALL, SAYRE, PA.



When we handled this fine pair of Dorkings for Mr. Watson Westfall at the Madison Square Garden Show, we wondered why this grand old breed, which has existed for centuries, has lost some of the popularity it had years ago, as they combine beauty and utility in a high degree. The pair illustrated above were winners at the great New York Show and are as fine specimens of this breed as we have ever handled.—L. A. S.

feathers and a white base for the black feathers, and it appears that the purer and better the surface colors are, the deeper and more distinct the under-colors will be. We have them showing quite a distinct line dividing the two colors, which we expect to show to some extent with feather illustrations.

The production of high-class show birds, such as can win at our best shows of the present day can easily be classed as a science. It is, in fact, a real genuine business which requires plenty of brains, plenty of thought, plenty of patience, and add to all these requirements there also must be a great love for all the work and for the fowls themselves. We do not claim to have the business down to a science, but in our experience of thirty-seven years with Dorkings, we have learned, among other things, how to correct some of the faults commonly seen in these fowls.

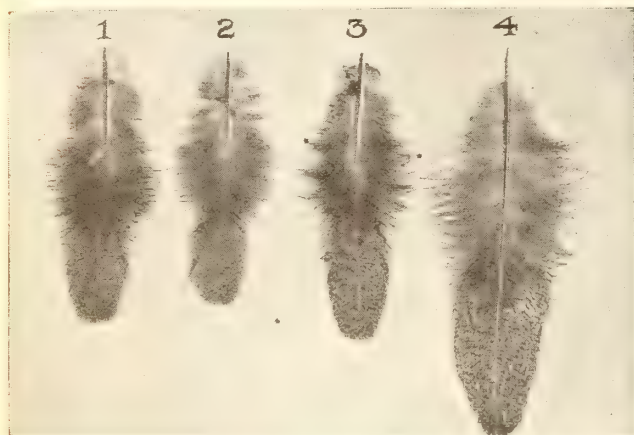
At the beginning we want it known that it does not require a double mating to produce male and female exhibition birds. Back as far as twenty years ago a pure black breast on the male was a rare thing to find, also a clean salmon red breast on the female. We did not know then that both male and female were being bred with too much gray and too little red, and that it would be quite impossible to get good breast color on the males when the females had mealy and mottled breasts. As soon as it was learned that the breast of the female should be a deeper and purer red to produce pure black breasts on the males, an improvement began to be noticeable on these parts. Next came top color of the males for attention, the idea being to get the white parts to show as little black as possible and the black parts to show as little white as possible, making a very distinct and beautiful contrast. After it was learned what an important part the breast color of the female had in producing pure breasted males, it was also learned that certain top color on females would produce the clean white hackle and top color on the males. Again we want to remind the reader that Silver Gray Dorkings do not require a double mating to produce Standard specimens of both sexes. The particular difference with one mating to another is all on the female side, the male always being just as near to Standard requirements

as is possible to get him and this is also true of the female that is intended to produce females. One of the most noticeable differences in these two mentioned females is on the hackle color. An exhibition female will show a clean black stripe on her hackle, while the male-producing female should show just as little striping as possible to get on her hackle. The problem would be easy if the hackle was all, but the real difficulty comes with the color of breast which should be clear salmon red and practically free from mealiness or edging of lighter color. It has always been noticed that the finest marking (stripling) was on the darker gray females with striped hackles, so here again is a difficulty in selecting this much-needed male-producing female. She should be light on the hackle, very clean red on the breast and yet have a finely stippled back and wings. As to her particular shade of gray she need not be of the best silvery color, but her marking should be fine and not at all coarse or shafty.

On the male side there are also many points to be considered. Very little attention has ever been given to under color of the Dorking, but of late years we have been studying it to a considerable extent and find that there is a great advancement to be had from study along this line. We like a male to have good depth to his color. When we open his hackle and back feathers we like to see black base color deep down, not up near the surface, as if trying to peep thru. The same is also true of his breast feathers, the white base there should be deep down. Wing feathers are also to be considered, especially the flights which are so difficult to get perfect. Our Standard says white on the lower web and black on the upper web, but we would just as soon have the flights all black as the safest and best for breeding purposes. Always avoid breeding a male with any all white feathers in the wings and a female with many black or white ticked feathers over her back and wings. Select birds that have long backs that are broad all the way from front to rear and that stand wide apart on short legs.

Dorkings are one of the few fowls having an extra toe on each foot. This fifth toe is, in fact, their trade mark, always identifying them whether alive in one's yards or dead in the markets. It also takes a very prominent part in their

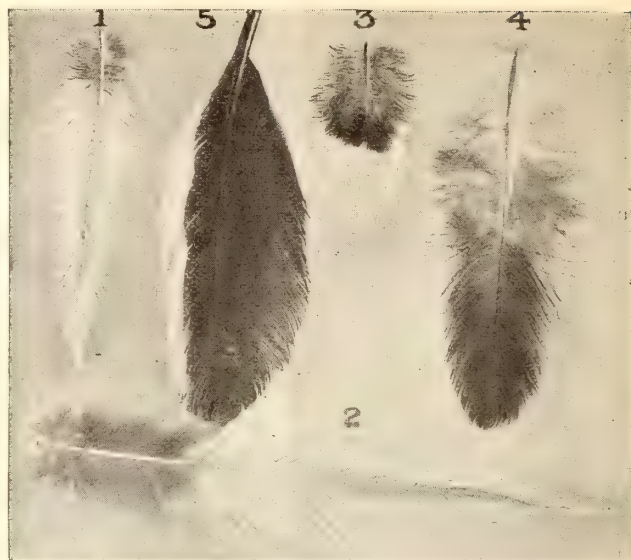
breeding. Old breeders in England have even said that anyone would not go far wrong breeding this fowl if they see to it that their feet and toes are perfect. The fifth toe should not droop down nor even be straight out from the leg. It



Feathers from Dorking females. No. 1 is a very perfect feather taken from back of first New York-Boston pullet, 1915. This feather shows the very fine stippling so much desired. No. 2 is from back of second New York pullet, 1916. It is as fine in marking, but is not entirely free of the shaft line. No. 3 is an even mark feather, but the stippling is quite coarse. No. 4 shows an imperfect feather, the end showing a black tick.

should turn up the leg and also backward.

As we said at the beginning, we have all kinds of fowl with us today, and it should not be a difficult matter for anyone to make a selection. Where just egg production is wanted we have Leghorns, Campines, Hamburgs, etc. Where largest size is wanted we have Brahmas and Cochins, etc. Where a medium between these two extremes is wanted we have Rocks, Wyandottes, Orpingtons, Dorkings, etc. The first group were never intended for table poultry and rarely ever set. The second group were never intended to be prolific layers, but they just love to set and set. The third group combine just the qualities which go to make up a general all-purpose fowl. First, they are good table poultry. Second, they are good layers. Third, they will hatch and rear their



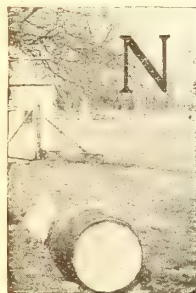
Feathers from Dorking male. No. 1 is from the upper part of neck of second New York cock, 1916. No. 2 is from lower part of the neck. No. 3 is from the wing bow. No. 4 is from the breast. No. 5 is from the wing secondaries. Note how evenly and distinctly the two colors are divided on all these feathers.

young. Fourth, they are very domestic and easily yarded. Fifth, they are all bred in such a variety of colors that one should easily find what they like best. Dorkings are good layers in Winter. Their eggs are large and the general color is pinkish white. They will set at all seasons of the year (have one now on, January 27th) but are never hard to break up. I either put them in with some surplus males or else simply change them to some other yard.

Where the Dorking excels as table poultry is a particular juiciness and tenderness of the flesh and a very considerable excess of breast meat. They also have smaller bones for their size than other fowls. In concluding this article I want to recommend the Dorking as a general purpose fowl combining ideal size, form and color, together with the very greatest amount of usefulness.

The New Standard and Double Mating

Nothing Is More Abnormal Than for An Animal or Bird to Fail to Reproduce Its Own Likeness. Some Varieties Breed Remarkably True, While with Many This Is the Exception Rather Than the Rule. There Is a Reason for This. *By Herb E. Sharp*



NO LESS AN AUTHORITY than Dr. Chas. R. Darwin attempted to divide domestic fowls into two great classes, placing those with normal characteristics, and normal variations, in one class, and those with abnormal characteristics and abnormal variations in the other. He gave up the attempt, saying that it was wholly unsatisfactory.

The American Poultry Association has attempted to divide all domestic fowls into two great classes, placing all the pure bloods in one class, and all the cross bred mongrels in the other, and they have failed dismally.

Now comes a plea for a new Standard that will permit a breeder to follow a single mating system. This is a physical impossibility in handling those breeds that were produced by crossing two or more other breeds.

Let us attempt to divide all domestic fowls into two great classes, placing all the strictly utility breeds in one class and all the strictly fancy breeds in the other. Now we can follow, without difficulty, a single mating system in all the utility breeds, and let those fancy fellows follow their double mating systems to their own logical conclusion.

Nothing is more normal, than for a bird, or animal, to reproduce its own likeness. Thruout all Nature, birds and ani-

mals, are doing just that. Nothing is more abnormal than for an animal, or bird, to fail to reproduce its own likeness, or to produce offspring only slightly resembling the parent form.

If we glance at the Standard-bred flocks we readily see that some varieties, especially the Leghorns, Minorcas, Hamburgs, and some others, breed remarkably true, while in many of the very popular varieties, the individual that closely resembles its parents is not over abundant. There is, and must be, a reason for this condition.

Take a pen of any buff variety, and practically perfect specimens are entitled to, and must be given, the honors in the show room; but the poor beginner that buys them, and hopes to mate them, may be the life of some other fellow's business, but he has a great deal to learn before he becomes a buff breeder. If we are to have buffs, reds, rings, streaks and rainbows we must expect to pay the price these things cost. They cannot breed true by the very nature of their coloring.

Dr. Darwin held the opinion that all our domestic fowls were descended from one common, aboriginal ancestor, the Gallus Bankiva, tho he was by no means certain that this was correct, and he tried to arrange a complete series between the Bankiva, which is our Leghorn, the Dorking, the Polish, the Houdan and the White Sultan, for the purpose of showing the wide range of variations under domestication.

Had he looked into the history of breeds a little way, he

would have found that the Sultan had been domesticated by the Turks, about the time of Christ, that the Leghorn had been domesticated about fifteen hundred years earlier, by the people of Southern India, and that the other breeds in his series were produced by crossing these two old, pure stocks; these old stocks breed true, and so, fall naturally in the normal class, while the cross-bred varieties are continually reverting first to one parent then to the other, and so, fall naturally into the abnormal class.

Dr. Darwin measured the skull of the Cochin and found the brain cavity was nearly twice as large as the Bankiva. He was at a loss to explain this condition, for he examined a sufficiently large number to convince himself that this was a normal condition; he found so many characters common to both that he was certain that there was a relationship between them, still he said that if any bird was ever shown to have had a separate origin, it would probably be the Cochin.

Had he gone into the history of this breed he must have found that it was of Chinese origin, developed in England, and only a slight investigation would have revealed the fact that the Chinese had domesticated the Capercaillie Grouse 2,700 years before Christ, and had developed a breed closely related to our modern Langshans. He was very well aware that fowls of the Bankiva type were introduced into China more than a thousand years before Christ, that this imported stock must have met the Chinese stock along the lines of commerce, mingled, crossed and produced some mongrel stock. Shanghai is at the mouth of the greatest artery of commerce in the Chinese Empire, the Yang tse Kiang River. From Shanghai came the foundation of our Cochin and Brahmas.

We are led to the conclusion that these fowls have been developed from a Langshan-Leghorn cross, or Leghorn-Langshan; the Langshan, by virtue of their power to breed true, must be placed in the class of the normal breeds, while the Cochins, Brahmas, and all their long train of cross-bred progeny must go into the class of abnormal.

Without a single exception all the pure bloods, the normal class, including the Brown Leghorns, can be bred to their highest degree of perfection, for exhibition, or utility, by a single mating system, if the Standard be drawn intelligently.

Now for the third classification, utility and fancy. It has been shown beyond the possibility of question that cross-breeds consume more food than pure bloods do, to accomplish the same results; and if we analyze the reports of the Missouri Laying Contest for the year 1913, under the light of the above classification, we find that the cross-bred abnormal breeds consumed an average of nearly one-third more grain per hen than the pure blood, normal breeds did, and yet they laid on the average a few less eggs than the birds of the normal breeds did. These figures seem to hold regardless of which breeds we compare, or whether the breeds are of the so-called, meat breeds, or of the lighter, egg types. Any breed that consumes a third more grain than is necessary to produce a given number of eggs, or a stated number of pounds of meat, can lay small claim to the attention of the strictly fancy class, by reason of their heavy food consumption.

Here we have the great naturalist's normal and abnormal classes, the breeder's pure blood and mongrel classes, and the farmer's fancy and utility classes, and all breeds taking their places naturally, easily and simply, with just one exception, the little White Sultan, a pure blood, and very normal breed, that lives, not for utilitarian purposes, but solely for his handsome appearance. His mate cannot be induced to lay many eggs, nor is she a patient, or persistent mother; life is too short for anything but fine feathers. She may be the "exception that proves the rule," but if this classification, that seems so natural, is not correct, let some one come forward and point out the error.

All breeds that can be traced back to one original wild parent, without the crossing of two or more lines of blood, are pure bloods. They are normal, and with the exception noted, they are capable of great work from the standpoint of utility; while all the cross-bred types are abnormal and not capable of reasonable work from the utilitarian standpoint.

When a dozen eggs from pure-bred fowls cost 15 cents to produce, a dozen eggs from mongrels will, and do, cost 20

cents; when a pound of meat on a pure blood costs 12 cents to produce, it will and does, cost 16 cents on a mongrel.

The pure blood, normal breeds, can be bred to a reasonable Standard by a system of single mating. Any near perfect female mated to any near perfect male will produce some offspring that are somewhere near the Standard set by the parent stock, the closer the relationship, the better, so long as the stock is good and well cared for.

The cross-bred, abnormal breeds cannot be bred to any Standard by any system of single mating, because they do not reproduce themselves truly. The colors will fade out, run together, or turn to brass. The breeds and colors were produced by crossing, and must be maintained by crossing and more crossing, and this condition has given rise to much that has been said and written against inbreeding, and no doubt has done much to establish the theory that you cannot



First Partridge Rock cock, Madison Square, 1916. A marvel in both type and penciling. Bird Bros., Meyersdale, Pa., owners and breeders of this bird, made a clean sweep of cock class.

mate closely related individuals without causing the stock to "run out."

One simply cannot maintain abnormal, fancy stock, and mate closely related individuals, and yet all live stock breeders know that close inbreeding has frequently produced marked improvements.

Where the stock is right, the blood is pure, and correct attention is given to housing, feed, etc., inbreeding certainly makes for permanent improvement, and where inbreeding can be practiced, a single mating system can be worked out to the entire satisfaction of both the enthusiastic amateur and the veteran breeder.

But where the stock is not right, where the blood is crossed, where the breed is abnormal, and all the laws of Nature are defied, no man can successfully practice inbreeding, and no man can become sufficiently expert, with any system of breeding, either single, double or quadruple, to secure a high percentage of near perfect individuals from the mating of any one pair of fowls; he is extremely successful, who can secure from one pair a few that are good of one sex, and from another pair a few that are good of the other sex.

Possibly that statement is a little strong, and I should qualify it by stating that, up to date, no man has done it.

Our ablest breeders in all the abnormal, fancy breeds, have been, and still are, crossing one group of characters on another group, knowing that the progeny of their matings will not, and cannot reproduce themselves, if mated together, and the Standard has been drawn with this end in view, so that the exhibition specimen shall be the finished product, not the raw material, nor the mill that will produce the finished product.

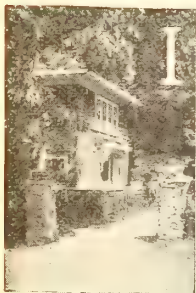
I have seen, and others have too, a breeder exhibit a practically perfect buff color, and after winning, sell the bird for breeding, when the breeder knew that the bird was so light his chicks could never get a notice in any Pumpkinville show. And yet if the Standard called for a darker bird, we would be no better off, for it would require a bird still a shade darker, in the breeding pens to hold the color. I believe this to be true of all the parti-color breeds; and in whites,

a little black is a good thing to have in a breeder. It seems to give a clearer white, if it is not too strong, and so long as this is true we must have the double mating system for the abnormal, fancy breeds. One pen to produce exhibition males and one to produce exhibition females; and so long as we continue to breed these abnormal, fancy varieties we can thank our lucky stars if we do not find ourselves compelled to make two more matings, one to produce breeding males and one to produce breeding females.

As I view the situation the only thing we can do is to continue the double mating Standard or discontinue the abnormal, fancy fowls. Double mating, is our only salvation, let those learn it who will, and can; let all others find out as best they may, what are normal, and what are abnormal; what are pure bloods, and what are not; what are utility, and what are fancy breeds of fowls.

Popularity of the S. C. White Leghorns

First Prize Article, Telling Why They Are a Much Desired Variety—
How to Breed Them for Exhibition and Beauty and Preserve All
Their Valuable Qualities. Winner of the \$50 Cockerel Given by
D. W. Young, Monroe, N. Y.
By Karl Dittmer, Napoleon, Ohio



I HAVE ALWAYS been interested in live stock, and we have kept poultry off and on for twenty years or more. Sometimes they were scrubs and sometimes they were thorobred, but we usually devoted half of our town lot to poultry. However I never contracted the chicken fever from breeding any of them until we tried the Single Comb White Leghorns, when that incurable disease took hold of me—and then I was down hard.

I first bought a setting of eggs from a large egg farm whose ad attracted me, paying the price of \$2.50 for them, and thinking I was making a huge investment. My ignorance may be conjectured from the fact that I took "S. C." to mean South Carolina. Despite this I secured ten chicks from the setting of eggs, and they grew with such rapidity and laid so early that I was entirely enthused. After which I subscribed for poultry magazines, and soon the fancy side took hold.

Ten dollars was then invested in a setting of eggs—but I never told anyone because I knew the people hereabouts would not understand. I secured some fine birds from these, and ever since have been a booster of the S. C. White Leghorn for the show room or for the laying pen.

The S. C. White Leghorn, in her up-to-date form, is to my mind a peerless bird, a combination fowl of utility and beauty, and by all means the biggest proposition in the poultry world today. She represents the surest hope for success to the man looking for a paying bird and the best of satisfaction to the breeder of fancy fowls. These are no idle dreams, and the S. C. White Leghorn men can offer abundant proof of their claims, can back them up, as the cock bird defends his ringing challenge with the cold points of his spurs.

I say that she is an ideal utility fowl—by this is meant one of the greatest possible usefulness. Now this usefulness is universally measured in dollars and cents and the egg has been proved beyond doubt to be the most profitable of the two sides of the utility fowl—the other being meat. Let us consider the latter first, however, for here the Leghorn has been most attacked.

If a man wishes to make money producing market poultry, the Leghorn is not his bird, simply because she does not take on the amount of fat that a larger framed fowl does. There are thousands of poultry raisers all over the country who keep fowls for eggs and meat. They usually find that they need Leghorns for eggs, and that they can get plenty of meat, for if one bird is not enough, they can have two, for one Leghorn can be kept for one-third less than one of the heavier breeds. A pound of meat is a pound of meat, whether on a Leghorn or a Brahma, and I think the quality even better on the smaller bird, and the proportion of bone is

probably less. The only actual difference in favor of the larger breed is the few pounds more meat when sold at the end of the bird's laying life, for in the profits arising from the sale of surplus cockerels the Leghorn is second to none. They will weigh as heavy as the chicks of most larger breeds at two months of age and do it with less expense. The quality of meat and plumpness of carcass are well known and place them in great demand in New York and other large markets. Hence the Leghorn admits no great disadvantage in her size.

In the laying ability of the S. C. White Leghorn lies her



First Single Comb White Leghorn cockerel at Greater Chicago Show, January, 1916, bred and owned by Eugene Smith, 317 Galena Boulevard, Aurora, Illinois.



OUR UNCLE SAM'S POULTRY WORKERS.

The United States Government operates an up-to-now, modern, experimental poultry farm where much good work is being done on behalf of pure bred poultry. The work in Poultry Investigations is not confined to the farm at Beltsville, Maryland, but covers the whole country and is a decidedly worth while work. The men in the photograph are Uncle Sam's workers in the poultry field and their names and titles are: Back row—C. C. Cleveland, poultry club agent for State of South Carolina; A. S. Chapin, poultry club agent for the State of Kentucky; A. H. Russell, scientific assistant in poultry investigations, whose duties are at poultry farm, Beltsville, Md. Middle row—A. R. Lee, animal husbandman in poultry investigations, Washington, D. C.; R. N. Crane, poultry club agent for the State of Tennessee. Front row—Robt. R. Sloum, assistant in poultry investigations, Washington, D. C.; J. W. Kinghorn, junior animal husbandman in poultry investigations; Harry M. Lamon, senior animal husbandman in poultry investigations, Washington, D. C.; A. G. Oliver, poultry club agent for State of North Carolina; N. E. B. Talcott, poultry club agent for State of Virginia; D. J. Taylor, poultry club agent for State of Georgia.

chief claim to the title of the greatest money making fowl in the poultry world. But there are six distinct qualities which should be attributed to her profitableness:

First, unparalleled laying ability.

Second, great prolificacy and hardiness, insuring against loss in hatching and rearing.

Third, small amount of space required per bird, consequently more eggs, because more producers can be kept in a given space.

Fourth, requirement of at least one-third less food, which is a large factor on the expense book.

Fifth, large white eggs which command a premium in nearly all large markets.

Sixth, quick maturity which gives to the Leghorn the credit of two to three dozen eggs before the larger breed begins laying, and which insures a steady yield during the months of highest prices.

Here, then, are some qualities which not another breed of poultry can claim to so high a degree and with such a born right as the S. C. White Leghorn. They are, however, very necessary to a breed that seeks to reach first place as a profit maker. Witness the hundreds of egg farms, of laying contests records, and the number of poultry men of all kinds who prefer this variety. It is safe to say that four-fifths or more of the egg farms thruout the country are stocked with White Leghorns—and there is a reason.

The S. C. White Leghorn has consistently made individual records and an average egg production in the egg laying contests which is beyond comparison. Reference to reports of contests, here and abroad, will show that, in the great majority of cases they have not only won first place, but have stood in greater numbers among the ten leading pens than any other breed or variety. There is good reason for this wonderful egg laying ability. Years ago, breeders recog-

nized the unusual possibilities for high production in the Leghorn and set about to develop them. As a result, they today have the satisfaction of seeing the S. C. White Leghorn far ahead of all others in the field of "bred for egg production."

A most important part of her claim as the ideal fowl, is her beauty. Here again the Leghorn breeder basks in the record of his achievement. The Leghorn of 1870 was a bird with great chunks of meat on the head, a body all angles, and often blocky, and with a pinched, upright tail. Today the S. C. White Leghorn seen in our big shows and even in many obscure small shows, is a thing of beauty—an artistic creation. She is the incarnation of grace, symmetry and beauty. She offers the combination of the purity of feather, the beauty of form, and the poise of bearing which is demanded from an artistic and fancy viewpoint. Thousands of professionals and amateurs have adopted her. No hotter competition occurs than at the shows in White Leghorn alley—which shows that she is widely bred to the Standard. Count the breeds represented in the display advertisements of the poultry journals and you will find more Leghorns there than any other variety, and fanciers use the bulk of this space.

A well defined system of breeding is the surest way of building up a flock of general merit. This calls for a knowledge of blood lines and of line breeding; records of every chick hatched and grown, and of the performance of adult fowls in the laying and breeding pens. Wry tails, crooked breast bones, and brassy plumage are often the result of incorrect methods of care and handling, so that proper rearing plays an important part in producing good birds.

All points should be given due consideration in breeding, and none neglected. I look for type first, since that makes the breed, and gives especially to the Leghorn, both her

utility and her beauty. Aside from the fact that any slight defect in type is more readily detected in the female, it is generally agreed that she has more to do with transmitting type than the male, while the latter is depended on for color. I have used females with erect combs to get good combed males, but now I select a hen with a firm comb and no weakness in the lop, as this secures good combs in both sexes.

A mating in which both sexes are close to Standard requirements will, I believe, give best results, if followed when selecting birds for the breeding pen. I like a neat, medium sized comb on the male. A female rather heavily feathered

on back, with a good suggestion of cushion and strong coverts, is usually an excellent breeder of cockerels with good tails. A male having a well-spread tail will often give pullets with the objectionable pinch of tail absent. Where so large a percentage of the birds run close to Standard, as they do in this variety—if Standard points are followed in making selections, then the chief essential aside from this is to select specimens possessing good sound constitutional vigor.

I believe that the S. C. White Leghorn is ideal as a utility and beautiful fowl, and, that as she has a big present and has had a thoroly tested past, she has a bigger future.

S. C. White Leghorns—A Desirable Breed

There Is No Breed That Will Give Better Results Under Right Conditions Than the World's Popular Favorite, the Little White Leghorn Hen. *By George R. Williams, St. John's, Newfoundland*



LIVING AS I DO in the City of St. John's, about 60 miles distant from the famous lighthouse at Cape Race, in the Island of Newfoundland—Britain's oldest colony—I cannot resist the opportunity of writing an article (which I hope will be accepted) in order to let our American cousins know how very much we Newfoundlanders prize and appreciate the great qualities of the world's famous egg producers, the Single Comb White Leghorns.

I will give you the history of our personal interest in the breed. I am a busy insurance man engaged all day at the office and having purchased a residence in the city suburbs with a good-sized lot, my wife and I decided to keep some thorobred poultry for pleasure and urofit. First, we decided to visit and see the various breeds at the exhibition of the Newfoundland Poultry Association, and make inquiries from exhibitors and see

the specimens in their best feather. We then and there admired the beauty, and the well set-up appearance of the White Leghorn as compared with all the others—their grand white plumage, intensely red combs, yellow legs and beak, their vitality and alertness—all proving their attractiveness. The exhibitors all testified to their good points, and after keeping them now for years, we can speak with our friends and eulogize them as the best breed of fowl for the following reasons:

First, they lay more eggs than the average breeds, as proved by the tested laying competitions in various parts of the world.

Second, they do not become broody and so unproductive.

Third, their eggs are always strongly fertile in the early Spring—an urgent necessity when early pullets must be had for the egg supply at a time when the hens are moulting.

Fourth, the fine flavor of flesh which the White Leghorn possesses and which is a feature peculiar to the breed. The cockerels make delicious broilers.

Fifth, the hardness of the breed for the rigors of a Northern climate, such as we have in Newfoundland, where the lilac blooms in July and August is the month of roses.

Sixth, the Winter laying abilities of the pullets in the healthy open-front houses, when the birds will lay regularly during the coldest season, and where the snow lies piled around the poultry house two to four feet deep, at a time when eggs of other breeds are scarce, and the egg market is at its top notch.

Seventh, the snowy white shell of the egg and the superior flavor of the contents—our Leghorn pullets are now laying large size eggs weighing 24 ounces to the dozen.

Eighth, the quick maturing nature of the breed, the pullets often laying at five months old.

Ninth, the smaller amount of food required for the greater results as compared with the heavier types.

We have proved the above facts with our own White Leghorns and can heartily join with others in saying: "You cannot beat the Little Leghorn Hen."

When we commenced to keep the Leghorns we knew nothing of the scientific side of keeping fowl. We began by importing a cheap pen of White Leghorns from Prince Edward Island, Canada, as foundation stock, not being as well informed then as we are now. In order to compare our birds with those of others, we decided to send them to the annual poultry show and take notes. Judge Landry, of Truro, Nova Scotia, who kindly visited our island awarded us third prize for hen, and thus being encouraged we aimed for higher results. Needless to say the name of "D. W. Young" and "White Leghorns" are now even household words in far-off Newfoundland, where Mr. Young's reputation is well known for having the best White Leghorn blood. We wrote a New York friend to secure a setting of Mr. Young's best eggs, but owing to long delays in the mails and the season getting late we had to abandon the idea. We then made local inquiries and succeeded in buying a "White Leghorn Cock" imported from D. W. Young the previous season, and to which we immediately gave the name of "D. W.



First prize White Plymouth Rock cock at the Greater Chicago Show, January 1916. Owned by P. J. Olle, Route 4, Racine, Wis.

Young" as a distinguishing characteristic. This cock bird was not of the exhibition type by any means, and was only an ordinary looking bird, but he had the goods—the D. W. Young blood—which he proved in his cockerels and pullets when they carried off the silver cup donated by Sir Walter Davidson, the governor of the Island of Newfoundland, for the best display of locally bred "White Leghorns."

Needless to say we were very proud of our achievement in the hardest and biggest competitive class in the show. The following year we repeated the trick, using the same good stock, winning the cup a second time. This cup so far has always been won at the Newfoundland Show by breeders using in their breeding pens stock from D. W. Young.

Our birds are prepared for the show by beginning with the mating pens, selecting the best types and unrelated males as far as possible, hatching out early chicks in the incubator, feeding properly, giving the growing chicks special attention. In this work my wife practically has the entire care. A month before the show we select the "Liklies," coop them and train them as far as time allows, some do not get any special attention whatsoever, and the night or two before the show my wife and I wash the birds as recommended, by using three washing tubs of water. In the first we use warm water and plenty of white soap and borax, the second tub contains tepid water only, and this is where the soap is washed out of the feathers, whilst the third contains blue water. The birds are wiped with towels, and this is where all the family assist in the job, wiping the feathers all one way carefully, from the head toward the tail. A little vaseline on the combs and

legs completes their toilet. We have a big fire going in the kitchen range and the birds dry out during the night in their boxes containing planer shavings. It's a lot of work when you have to do it yourselves, but a real source of genuine pleasure, and after all, it's well worth while, when we go to the show room and hear our competitors and friends all extending congratulations and patting us on the back!

Besides the great pleasure the birds give us, they more than pay for their keep, as our accurately kept accounts prove. We sell our eggs direct to the customer at 60 cents per dozen from December 1st to March 17th, and 40 cents the rest of the year. Broilers realize 30 cents per pound, and we kill the two-year-olds, which realize 25 cents per pound. For settings of eggs we get \$2.50 for 15, and breeding cockerels \$2.50 each. In Newfoundland we pay \$20 for 2,000 pounds of straw used as litter, No. 3 wheat costs \$2.60 per 100 pounds, oats 85 cents per 38 pounds, bran, \$1.60 per 100 pounds, and scratch grains \$2.50 per 100 pounds. Oyster shell and grit sells at \$1.50 per 100 pounds, yellow corn at \$2.30 per 100 pounds. When poultry men pay these prices to feed Single Comb White Leghorns, they must get the financial returns. Our birds paid us a good profit last year, altho our feed bill was nearly \$300, but to be successful with the poultry, take our advice, even from far off Newfoundland, start right by buying stock or eggs from a recognized breeder of the breed, treat the birds with kindness, study their needs, and I am sure there is no other breed that will give you better returns than the world's popular favorite—the Little White Leghorn Hen.

A Study of General Purpose Breeding

Health Is the Fundamental Requirement for Successful Poultry Keeping, Since All Other Considerations Rest Upon It.

By Maurice H. Decker, La Porte, Ind.



HERE ARE IN THE MAIN, two things which stimulate the domestic hen to an increase in her production of meat and eggs. These are first good care which includes agreeable surroundings and second, the hereditary influences of good breeding present in her make-up. Methods and formulas for the feeding and care of fowls have probably reached the zenith of their development as far as practical results demand, but the science of special purpose breeding, the development of strains of fowls for maximum

yields and performances in special lines present a new and inexhaustible field for the poultry breeder.

I believe the most profit in poultry in the future will go to the man who bears this point in mind. The day of the "shift as shift can" and "root hog or die" farm flock is firmly on the decline and taking its place we find the uniform clean cut flock of fowls bred for profitable production in some special branch of the poultry industry.

The domestic hen possesses two traits which hold forth promise of certain success to the careful breeder—extreme prolificacy, and a ready adaptability to environment, and better results are noted almost immediately when special mating for improvement begins.

There are six general lines along which fowls may be bred for improvement and increased profits by the farmer and professional poultryman. These are:

1. Better health.
2. Quick maturity and full regular size.
3. More and larger eggs.
4. Better fertility and hatching averages.
5. Longevity with continued profitable production.
6. Prize winning form and feathers.

I regard health as the fundamental requirement for success with poultry. It is the keynote which sounds the success or failure of all endeavors in the remaining special lines of breeding, for without strong, sound constitutions, it is impossible to produce quick maturing, heavy layers, longer lived and

prize winning fowls or secure strongly fertile, hatchable eggs. Breeding for health is probably the least difficult to begin and pursue. Its successful attainment is hinged upon two inviolate rules for procedure. These are, to never allow in the breeding flock a fowl which has at any period of its life suffered from any disorder and to do the best possible to insure present and future health by the liberal use of fresh air, wholesome food and sanitary surroundings. Close watch should be kept on all fowls liable at some time to be used as breeders, beginning the day hatched and the instant one loses even the least part of its good health or vigor, it should be marked accurately as an undesirable. For this purpose we use celluloid leg bands which slip on easily after the manner of a key ring. They are colored red as a warning signal against using the wearer to reproduce its kind and by having three sizes, baby chick, Leghorn and Plymouth Rock on hand we are able to fit any size of growing or mature fowl.

The elimination of roup from our flock of Plymouth Rocks by four years of careful selection and breeding I regard as our most important achievement in the line of special purpose breeding. Before attempting this course as the only permanent remedy, it appeared as tho our fowls were fairly saturated with the germs of this discouraging disease, awaiting only a favorable opportunity for breaking out. Commencing with the first cold wet spell of Fall we were doctoring and dopping some of our birds continually until the warm weather of Summer set in for good.

Working upon the principle that a tendency toward this or any serious disorder can be transmitted from parent to offspring as surely as a tendency toward heavy laying, we carefully culled down our flock of breeders, removing those individuals most subject to the disease. A marked improvement was noted as the result of this culling. Fewer of the young stock contracted the disease in Fall and early Winter and the following Spring we were able to reserve for our breeding pens a sufficient number of pullets that had never been even touched by the roup. At present this disorder is of very rare occurrence among our fowls and I am positive a continuance of our policy of selection breeding will insure their immunity in the future.

Breeders of market poultry should make special efforts to

develop strains of fowls which quickly mature to full even size. Even uniform chickens always bring higher prices, dressed or alive, and there is much time and food saved when



Second prize Columbian Wyandotte cockerel at the Greater Chicago Show, January, 1916. Owned by Leo. A. Lee, 5626 Wilson Avenue, Chicago, Ill.

developing a flock of broilers or roasters by having them all reach about the desired weight in a uniform period of time. A short time ago, while interviewing a large breeder of Plymouth Rocks, Rhode Island Reds and Orpingtons, I received an account of his experience in selective breeding, which so clearly illustrates what may be accomplished along this line, that I give it here:

Said he,—“Until I devoted special efforts to develop strains of fowls capable of producing regular even broilers in a uniform period of time I had serious difficulty in filling broiling orders from large consumers with satisfaction. For example, a banquet is to be held at a certain restaurant which is in the habit of buying my table poultry. The manager telephones out to the farm and orders say two hundred two-pound broilers. Now it was formerly well nigh impossible for me to furnish two hundred youngsters weighing even fairly close to two pounds each, but being after the business I would promise to fill the order. Of course, some of the lot I would send would be oversize and some undersize. The restaurant manager knows his customers will be better pleased if each is served a uniform portion, so my goods create an unfavorable impression upon their arrival. And if by chance one patron receives a very small bird and his neighbor is served an extra large one, there is liable to be petty dissatisfaction which if repeated to the management, is fired back to me with interest.

“It didn’t take many incidents of this nature to set me to thinking that special efforts on my part to develop my strains with a view to producing more uniform and regular crops of market chickens would pay me well, not only in giving better satisfaction with large sales but in the labor and feed subsequently saved.

“Accordingly that season all of my pullets were kept under close observation and not a one which did not weigh over 24 ounces at ten weeks of age was allowed to enter the breeding pens when matured. The next year the limit was raised to

26 ounces and the next 28. Now I have no difficulty whatever in filling my pens with desirable females who tipped the scales at 30 ounces in two and a half months and the prospects are very favorable to my being able to show up the limit another two ounces next year. Not only are the pullets carefully selected, but all males are graded as well. I mate my stock for producing market poultry in flocks containing one hundred females and five to six males and to further even results I use in each pen only cockerels who have made uniform growth together.

“The result is my broilers and fryers are setting new records each season for even, regular growth, mature in shorter periods of time than formerly, saving me considerable expense in grain and labor and my large customers are well satisfied with the goods I deliver. The past season the number of runts and extreme underweight ten weeks old birds among the 6,500 I reared, was a trifle less than 4%, which I consider a very creditable showing for my five years of selective breeding. Another point is, I find I have considerable less mortality in my young stock which represents another substantial saving in my business. A quick maturing pullet must be of a strong, vigorous constitution, with well developed digesting and assimilating faculties, and these are the only sort I find it pays to allow to reproduce their kind.”

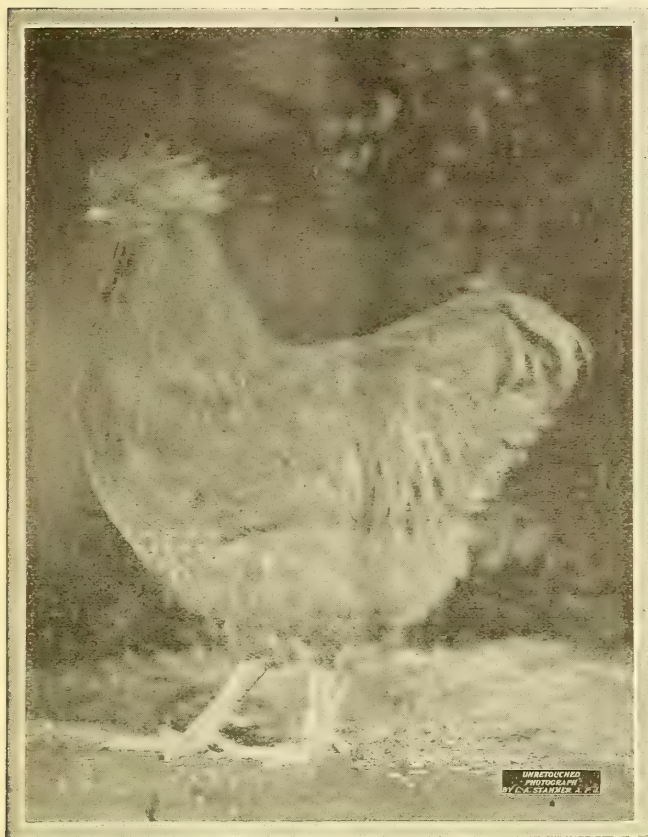
Of vital importance to every class of poultry raiser is the question of getting more eggs per year per hen. The items of labor, depreciation, interest charges and to some extent, that of food remaining the same whether a hen lays fifty or one hundred and fifty eggs per year, it becomes apparent that the most logical method of increasing poultry profits is to increase the yields per unit rather than developing plans for maintaining a larger number of fowls. With grains at the present prices, it is going to take around the value of ten dozen eggs at the ordinary market prices to maintain one hen a year and with the average yearly production of hens in the United States fixed at six dozen, only those poultrymen who have made special efforts to increase prolificity will be able to make their fowls pay. The excellent records accomplished in the laying contests of this and foreign countries clearly illustrate what may be done in the line of breed-



First prize Rose Comb Rhode Island White cockerel at Cleveland, O., January, 1916. Owned by Mrs. B. Bottenus, 89 Burton Avenue, Cleveland, Ohio.

ing for eggs and establish records which every poultryman should strive to imitate.

Here again the ancient rule of "like produces like" should



Unretouched picture of first prize Buff Orpington cock at the late Madison Square Garden Show. Owned by Sunswick Poultry Farm, South Plainfield, N. J.

be followed and never lost sight of for an instant. The first step is to install a sufficient number of trap-nests to accommodate the fowls and promptly spot and make away with the indifferent layers before they have an opportunity to perpetuate their characteristics. In most flocks of uncultured hens will be found individuals that lay but a very few eggs a year and occasionally one that never lays. These must be removed from the flock at once, for the additional reason that they lower the average egg record of the better layers. I have known a number of instances where the weeding out of a small percentage of drones have changed flocks kept at a loss to profit makers.

Next the performance of the better layers should be closely followed and at the end of the year those that it is judged have paid their way retained for breeders. It is not absolutely necessary to use the trap-nest the year round to get in touch with a layer's desirability. It will be usually found that the heavy layers are the early layers and pullets that perform well during the months of September, October and November generally make desirable breeders. When a flock of above the average layers are selected they should be mated to the best cockerel of heavy laying breeding it is practical to secure. Poultrymen who give this plan a trial will not lack encouragement in the shape of early indications of improvement. As evidence of this, I give the results of our first three years breeding for better egg yields. We started with a flock of 46 hens, having an average yield of 124 eggs each in their pullet year, no individual with a record of less than 120. A selected flock of 60 pullets from these hens averaged 146 eggs their first year, an increase of 14%, and pullets from this selection made an average of 165, a 13% improvement. These were selected pens, remember, and were bred each year to cockerels from hens of unquestionable worth as prolific layers. From that date on our gains in average egg yields have been smaller, but steady, and at present we breed only from hens possessing a record of 180 eggs and over their first year.

We are not attempting to produce any individual layers of sensational records, just striving to establish a large commercial flock of above the average profitable performers.

I believe it very probable that the near future will bring regulations to govern the minimum weight of eggs when sold by the dozen. It certainly does not seem consistent that eggs weighing 18 to 20 ounces a dozen from scrub hens should realize the same price as heavy 24 to 26 ounce per dozen eggs laid by selected pure bred fowls.

There are two profitable reasons why the poultry keeper should begin immediate steps to increase the average size and weight of the eggs laid by the fowls. First, when regulations pertaining to the selling of eggs with reference to weight do come into effect he will be in on the ground floor, comparatively speaking, and in a position to reap the profits due the producer of large size eggs. Second, as a producer of a high class product he will gain under the present system of marketing by being in a preferred position to compete for the more select remunerative egg trade.

Breeding for larger eggs requires the exclusive use as breeders of both male and female descendants of hens who have been steady producers of heavy normal shaped eggs, supplemented with the best of care in the particular of food embracing both quantity and variety which will enable them to accomplish the best that their selective breeding encourages.

Particular care in determining the individual ability of each breeder to lay fertile eggs that hatch well is another line of development capable of returning profitable results to every poultryman. Our trap-nests have taught us that occasionally there will be an extra good layer of healthful appearance laying infertile eggs or eggs that hatch badly. One of the few extra good laying White Plymouth hens we have ever bred laid perfectly infertile eggs, while two other of very good performance were detected last Spring in laying eggs of which less than one-third hatched and this in spite of all three being shifted from pen to pen containing different cockerels. Eggs from hens that lay poor hatching eggs cannot hatch into chicks capable of developing into valuable breeders and there appears to be no reason why the elimina-



First prize White Plymouth Rock pullet at Coliseum Show, Chicago, December, 1915. Equal to the best we have handled this year. Owned by H. W. Halbach, Waterford, Wis.

tion of such hens each year will not only increase the fertility and hatching averages of the flock but do away with the losses resulting from attempts to hatch poor eggs.

When trap-nests are in use each bird should be banded with a leg band bearing her individual number, which number should be penciled on every egg she lays. Thus it is a simple matter to follow up her product until hatched, accurately recording fertility and hatching averages. If it is thought desirable to keep further tab, the chicks may be toe-marked or banded with chick bands and followed up until grown. Altho such a course means work and trouble, it is the right one for the beginner to pursue. By starting with a few choice birds and carefully following up and improving their increase each year he can develop a small flock of exceptional quality and worth, tho only devoting a portion of his time to the task. Then when he is satisfied he possesses



First prize White Wyandotte cockerel at Ohio State Fair, 1915. Owned and exhibited by H. J. Riley, Box A, Bryan, Ohio.

a first-class paying strain he can begin hatching wholesale and in a short time expand his foundation stock to a flock sufficiently large to stock an egg or broiler farm all of the original quality.

The first point in the list of special purpose breeding lines is one, I believe, too few poultry raisers appreciate or consider. So many are taking it for granted that pullets are the only class of fowls profitable to keep for layers, the fact that it is possible to breed a strain of fowls which will suffer little mortality in their second and third years and produce sufficient market eggs to show a profit over their cost of maintenance is largely overlooked. The advantages of being able to retain yearlings and two-year-olds as layers are several. First it costs somewhat less to "summer" a hen than it does to raise a pullet to laying age, and considerable less labor and capital tied up in hatching and brooding appliances are required. It generally costs about sixty cents to mature a pullet, while we have repeatedly carried hens over the few months between their laying periods for as little as thirty-five cents each. Summer and early Fall eggs are produced principally by hens and not pullets, a fact to be remembered by poultrymen possessing year-round demands for fresh eggs. And again, hens suffer less from colds and kindred ailments in early Winter

and having passed thru one season of laying are less liable to suffer from disorders of the egg organs. Losses from "egg bound" pullets are always to be reckoned with on commercial farms where large flocks are being forced for egg production.

I have in mind a case, where the retention of hens until their third year, is making money and saving considerable labor and trouble for a small poultry man a short distance from our farm, which he visits frequently to swap experiences. He has unwittingly followed this branch of special purpose breeding by hatching eggs only from vigorous Leghorn hens in their third year, the pullets and yearlings being used to fill the laying houses. He hatches but a few chicks each season, less than half the number that would be required if pullets only were utilized as layers, and tells me he clears nearly as much per year from the hens, in fact more if the trouble of extra hatching and brooding is figured in. Another White Leghorn breeder from a Southern state writes that he clears \$1.20 from pullets, \$1.00 from yearlings and \$0.90 from two-year-olds. Another point of superiority of the hens is the larger size and uniformity of the eggs they lay. A pullet's first dozen are generally undersize and during their whole first year there are liable to be a number of cull eggs. Healthy vigorous hens may be kept as breeders up to their fourth year with profit, especially if they hold heavy laying records as pullets. I know of a farm in northern Illinois which makes a specialty of heavy laying strains whose heavy yielding hens are kept for breeders until they die. The manager tells me that if he gets but half a dozen chicks a season from his oldest best layers he considers they are paying their way handsomely.

Breeding purposely for prize-winning fowls of show quality is the oldest and most practiced form of special purpose breeding. This is an art requiring considerable skill in choosing one's breeders, in supplying an equal balance of good and undesirable points on each side of each mating by selecting a male possessing sufficient strength in certain points to balance a weakness of those same points in the female and vice versa. All of which is mastered only by experience and experiments. There are two methods by which show birds may be reared. The first is the way of the specialist, who, possessing a thorough understanding of his particular breed or breeds, is able to accurately determine in advance the results produced by a certain mating; who hatches and rears his fowls in small flocks and keeps an eye on surroundings and care which may influence the color or shape of his stock. As examples, yellow corn and beef scrap are generally regarded as producing a yellow tinge in white plumage and sun and rain impair the tint of the buff varieties. Second, the course often pursued by large plants who do a combined utility and fancy business which is to hatch large numbers of pure bred chicks and later pick the cream to develop into ribbon winners.

There are four aids to the man who is breeding with a special purpose in view. These are the trap-nest, scales, record sheet and a trained eye. The first three can be easily employed at once by even the novice, and the fourth may be acquired with a little practice of the others. Decide upon a definite ideal, breed only from individuals approaching it closely, use with each mating good healthy males bred along the same line, use good judgment in the matters of food, care and sanitation—there you have special purpose breeding in a nutshell.

Organized poultrymen of New Jersey, 4,000 strong, have launched a campaign for new and further legislation against the misbranding of cold-storage poultry products. While recognizing the value of the storage houses in handling perishable provisions, the New Jersey poultrymen object to having the storage eggs sold under "fresh" labels in competition with the really fresh product. It not only hurts the legitimate business, but the consumer is swindled.

Several months ago the board of regents created a poultry department to be added to the Nebraska Agricultural College at Lincoln, but nothing further has been done, because, so they claim, they have been unable to find the right kind of a man to take the position of professor of poultry husbandry. Nebraska poultrymen are getting anxious that the department be installed at an early date and have recently sent the regents a petition asking that prompt action be taken.



First prize Golden Campine cockerel at Madison Square Garden, 1915-16. Also winner of first at Panama-Pacific Exposition. Owned by Martling Hennerly, Ridgefield, N. J.



The above Barred Rock female was first pullet at Chicago Coliseum, 1914, and first hen, 1915. Owned by Howard O. Sears, Box 6, Garden Prairie, Ill.



FIRST PRIZE COCKEREL MADISON SQ. GARDEN DEC 31, 1915 - JAN. 5, 1916
BRED AND OWNED BY ARTHUR G. DUSTON, 50 FRAMINGHAM, MASS.



FIRST PRIZE WHITE ORPINGTON COCKEREL
PALACE NEW YORK SHOW DEC. 1914 BRED & OWNED BY
OWEN FARMS, VINEYARD HAVEN, MASS.

"WE LEAD, OTHERS FOLLOW"

EDITORIAL

American Poultry Journal

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certifies that the American Poultry Journal
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G. M. ATWELL.

Subscribed and sworn to before me this
15th day of February, 1916.

[SEAL]

HENRY G. EISERT,
Notary Public.

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best writers on poultry matters contribute
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and endorsement of the foremost repre-
sentative breeders of standard poultry and
manufacturers of poultry appliances in the
country.



WITH THE MAJORITY of our readers
this is the baby chick season, the time
of hatching and rearing. Eggs for
hatching and day-old chicks are sell-
ing well and at reasonable values,
quality considered. Since the farmers'
great crops of grain have been turned
over to the elevators and distributors,
the prices of grains have advanced

sharply, speculators are trying to "bull" the mar-
ket, we are told that a very large part of the oat
crop and wheat crop was spoiled by the wet season,
that much of the corn is soft and that good sound
grain will command high prices on account of de-
mand for export.

Altho we were promised lower prices on feeding
grains, by those optimistic about "bumper crops,"
we are not likely to experience lower prices for some
time to come and there is a great deal of poor feed-
ing grain on the market. The season is approach-
ing when grain spoils quickly, and, even tho an ad-
vance in price may be looked for, we do not believe
it is wise to buy feeds in large quantities. To suc-
ceed in growing poultry it is necessary to use good
sound grain and, even tho prices may be high, it is
better to buy small lots and insist on good quality.
Poor or spoiled grain is not cheap at any price.

The prices paid for poultry and eggs have ranged
rather lower than usual, but many growers are
looking forward to a sharp advance in selling prices
of poultry and better prices for eggs. A great many
poultry keepers, during the winter just past, have
sold out their flocks to below the average size for
the season; some have cut down the number of fowls

to a very considerable extent. Within a few weeks
the demand for fowls has increased and prices of-
fered by buyers have improved considerably. 1916
ought to prove a good year for poultry growers
who are working to produce more eggs and better
poultry. In our locality a good many producers are
marketing direct, and more will do so,—in this way
eliminating the middlemen who, as distributors,
used to gobble nearly all the profits.

It ought to be a good year for those who grow
good chickens. Make it a rule to grow only as many
chickens as you can care for properly. A small flock
well cared for and brought to the highest degree
of excellence will pay far better than larger flocks
indifferently cared for and of inferior quality. Strive
to produce the best. It is better to have a few hun-
dred good ones than a thousand or more scrubs.

March chickens should produce cockerels that will
sell at good prices in the summer months and pullets
that will lay next fall and winter when eggs are
high in price. They will do well if you feed and
care for them as you should. And your success will
be measured by the amount of enthusiasm and in-
telligent work you put into growing the chickens.
Little details must be carefully attended to. Chick
rearing is a simple matter if you go about it right.
It is not a pleasing occupation if it is done wrong.
Every poultry keeper who intends to rear chicks this
season should read and study Dr. Woods' book
"How to Raise Chicks," published by this Journal
and obtainable in neat cloth binding at 75 cents per
copy, postpaid. Our book department is busy fill-
ing orders for this book and would like to include
yours.



THE MUCH HERALDED American Poultry Association text book for use in the public schools, entitled "Twenty Lessons on Poultry," by C. T. Patterson, and edited by Frank E. Hering, is now ready for distribution. On the whole it is a very creditable elementary text book on poultry and the best effort in the publishing line that the American

Poultry Association has accomplished to date.

The text is presented in such a manner that it is certain to interest the public school pupil and it will undoubtedly help to create a greater interest in Standard-bred poultry, as well as prove of assistance in teaching the elements of poultry culture.

The book is published with an attractive cloth binding, the type is clear and most of the illustrations are reproduced from the Standard, with a few original photographs added. While there are some minor points in information, like the teaching that lice suck the blood of fowls—altho we know that poultry lice have biting mouth parts and are not supplied with sucking equipment—and a few other matters that the author will find that the authorities do not concur in, it is a very good text book for the purpose for which it is intended and a credit to the American Poultry Association. As a whole the illustrations are well presented, altho by unfortunate error of the types the Buff Leghorn title got under the White Leghorn picture and vice versa. Beginners in poultry will certainly find this book useful and there are suggestions contained therein that might well be heeded by poultry keepers who are far from being beginners. The book is printed on good paper, contains 92 pages and 56 illustrations.



ENGLISH POULTRY and English poultry keepers are playing a very important part in the big European war. Eggs are necessary food for the sick and wounded soldiers. The hospitals in France and England stand in great need of a constant supply of new-laid eggs. Many millions of eggs have been shipped from America to the front, sold

thru regular market channels, but these could scarcely be considered new-laid eggs. It is not possible at this time to obtain an accurate statement of the number of eggs required by war hospitals, but it is an interesting fact that *Poultry*, an English weekly, is endeavoring to secure donations, thru an egg collecting system, of seven hundred thousand new-laid eggs weekly for the wounded soldiers and sailors. English poultry keepers have responded nobly and on January 7, 1916, it was reported that new-laid eggs, freely given for the cause, amounted to a total of 10,915,049 dispatched to base hospitals in France and 1,966,663 sent direct to English hospitals. In addition English poultry keepers had contributed to the egg fund in cash £6,432 17s 10½d. That is evidence of practical and life-saving patriotism on the part of English poultry keepers.

A correspondent asks the Editor of *Poultry*, "Are poultry farmers exempted from military service, and if so, on what ground?" To which the editor replies: "I certainly hold that a person producing eggs and poultry is helping to keep up the food supply of the country, and doing thereby excellent war service. The Board of Agriculture since the outbreak of the war has been untiring in its efforts to

persuade poultry keepers to stock "more and better poultry," but so far the Board has not supported poultry farmers in the direction our correspondent mentions."

The same editor comments on an article, "Mobilize the Women," on this subject in this wise:

"As the removal of so many men may mean a serious difference to the food supply of the nation, the author is of opinion that we should take immediate steps to mobilize our reserve forces—the women and children—to carry on such interests as poultry keeping. He further thinks that a national campaign is urgently desirable to arouse women to a sense of their duties in this particular respect."

There can be no doubt that English poultry and eggs are playing an important part—a sustaining and life-saving part—in the great war and the English government will welcome effort that will result in increased production of poultry and eggs. But the men and boys are needed for "cannon fodder," there seems to be no help for that. The women not only have to bear and rear the children from which to recruit new soldiers and sailors, but they will also be called upon to furnish labor and to increase the national food supply. It is a significant fact that women are being recognized as an important asset of a nation at war, just as important and necessary as fighting men,—for "an army travels on its belly" and must be fed and supplied with war material, as well as recruits. Will the war place women on an equal national footing with men? There would seem to be no doubt about the right in this matter. Meanwhile we can ponder on the wastefulness of war and wonder how much generations to come will have to pay to settle the bills of this one.



WE WOULD LIKE to see new-laid eggs, from well fed, well kept hens, selling at five cents each at retail the year around. It is a reasonable price, a fair and honest price, and one that delivers unusual value for the price. If the value of eggs as food was properly appreciated, if the buying public understood the worth of an egg from flocks

kept under sanitary conditions and fed on wholesome foods, if they had more confidence in the quality of eggs, and producers generally knew more about what it costs to produce eggs, we believe that it would be a comparatively easy matter to get 60 cents a dozen for new-laid eggs the year around.

In an article "On the Trail of the 5c Egg," in the *Sunday Magazine*, E. I. Farrington says:

"Eggs at \$1 a dozen or even more are not beyond the range of possibilities unless poultry keepers learn to coax more eggs out of their hens.

"Sixty cents a dozen has come to be considered a fair winter price for eggs. Certainly they cannot be sold for less at a profit. This makes the five-cent egg a standard of value. Five cents we assume as the price of a street car ride, a milk shake, or a cheap cigar. Oddly enough we cheerfully flip the coin over cigar counter or bar, but it sticks to our fingers when we buy an egg. You, however, who merely grumble at the price, know nothing about the difficulties involved in the production of that egg, clean, non-fertile and guaranteed not over two days old.

"Poultry keeping, once an incident, is now an art. The minds of trained men by the score are focused

on biddy. Inventors, called in to help, have found a fertile field. Inventions have come so fast the past few years that they have revolutionized the industry. Without these inventions the five-cent egg probably would be a ten or even fifteen-cent egg by this time."

Which is very good as far as it goes, but does not afford much relief to the millions of poultry keepers who are not getting over 25 cents a dozen for their eggs and who have to sell eggs at production cost or below it. If we could make "the five-cent egg a standard of value" it would be an accomplishment well worth while and would help many earnest and hard workers to earn a living such as they deserve to have.

G. R. Smith, in an article "The Meaning of Twelve Hens in a Back Yard" in the *Boston Herald*, says:

"Ah, the luxury of a 'strictly fresh' egg! But at 60 cents a dozen this delicious article of diet is rather too much of a 'luxury' for the average purse. Run a little egg factory of your own. Raise your own chickens, or buy them. Produce your own 'strictly fresh' eggs—and eat them too. Be a millionaire in one respect. Begin any season of the year. It's easy. The man who starts and starts rightly will never wish to stop."

Mr. Smith is mentioned as an "experienced poultryman," and for that reason we are surprised to find him terming eggs at 60 cents a dozen "too much of a 'luxury'."

Certainly a good new-laid egg ought to be worth as much as a cheap cigar, a glass of soda, a polished apple, an orange, or any one of the many things we now pay five cents for cheerfully and eagerly. Where can you get a better or cheaper breakfast than two new-laid eggs costing ten cents?

We would like to see more people

keeping "twelve hens in a back yard." Back yard poultry keeping is a good thing for all members of the family. The hens will pay their way in pleasure, profitable employment out of doors, and in eggs or chickens that may be used on the home table and offered to guests without any misgivings. The back-lotter may learn a few things about the cost of poultry and eggs and he will not be as ready to believe the wonderful tales of get-rich-quick profits from poultry, but, if he is in earnest and has a fondness for poultry, he will find pleasure and profit in his poultry work. It may not be a cash profit, when time, labor, and feed are considered, but there will be profit and real satisfaction for all the family just the same.

By all means keep a small flock of fowls of your favorite variety if you can possibly do so, and enjoy the pleasure and satisfaction that comes from producing at least a part of your own food supply for the family. There are no better foods produced than home-grown chickens and eggs.

Poultry Judges.

WITHIN a few months some of our poultry judges have been held up to ridicule, because when questioned off-hand they were unable to give exact Standard weights of certain breeds.

It is hardly a fair test or reasonable criticism. We never could understand why anyone should be expected to carry around in mind a lot of figures that could so easily be found in a reference table or book, and it seems to us that mere inability to quote the Standard weights, school-boy fashion, like a recitation of the old time tables, is a very long way from showing either lack of

knowledge or incompetence on the part of a judge.

Personally, we have never attempted to carry dates, weights, or other figures that we could easily refer to in handy memoranda. We cannot and do not see the need of cluttering up the mind with an accumulation of "junk" of that sort, when accurate data and figures are easily available for reference. There are other things that it is much more important to remember.

A poultry editor is almost daily called upon to quote the Standard weights of some variety. It is a part of routine work with us, yet we doubt if we could answer questions about Standard weights off-hand with any great degree of accuracy. In the American Standard of Perfection there are sixty-two weight tables. It seems to us that any poultry judge would be foolish to trust to memory for these figures when he could much more conveniently handle them by means of an accurate reference table. It is easy to criticise poultry judges, but it is probable that they really know quite as much about Standardbred poultry as do the rest of us.

Clean Journalism.

A GOOD many years ago some one ventured the opinion that fighting with an editor is like having a hand to hand scuffle with a skunk, since every one knows the following morning who has been in the fight.

This was voiced in the palmy days of the "fire eating" editor who was more interested in "nursing grudges" than in giving his readers something to think about.

Time effects its inevitable change upon all things, not excepting the editorial custom of publications. The average reader of today is not particularly interested in the editor's personal scrap with his neighbor or tradesman, and most readers are bored to the point of disgust at public airing of private grudge. Gradually, clean periodicals of whatever class have tabooed the "blood and thunder" brimstone editorial; which does not mean that an editor, in his personal word



RED SUSSEX EGGS

Send for a copy of my 24-page mating list, free.
Don't miss this as the book is worth having.

F. L. PLATT

SWANTON, OHIO



Fashion Plate Buffs

The established Strain that all breeders seek to improve their flock or buy into when they desire to win. Orpingtons the amateur recognizes without resorting to shanks and beaks to classify.

30 Yards

30 Yards

Mated to supply the demand for eggs—all raised from trap-nested families that produce our first prize winners at the best shows. Send for our 60-page Fashion Plate Book, describing our matings, sale stock, care of poultry, etc., FREE.

A. E. MARTZ

Buff Orpington Specialist
and Judge

Box A, Arcadia, Indiana

Leitner's Single Comb Buff Leghorns

Have made another great win at Rochester, N. Y., February, 1916, on two birds, winning 2nd cock, 3rd hen. At Chicago, 1915, 1st pullet, 2nd cockerel. My winnings for the season were the most consistent of any Buff Leghorn breeder anywhere. Grandest matings in the country for 1916—matings that will produce real quality. Let me prove it. Circular telling about my Leghorns sent free.

C. H. LEITNER,

R. F. D. No. 4, Box 8,

Elgin, Ill.

to his family of readers, is necessarily flabby, without character, or lacking in fearlessness.

The aim of the modern publication is to bring to the public mind whatsoever is of educational value or for the betterment of its readers, regardless of whose "ox is gored." But the really conscientious editor bent upon bringing about the greatest good to the greatest number, and whose hands are clean, refrains from entering merely a wordy combat against unfavorable personal attack.

There was once a man engaged in an important public pursuit who in going about his honest affairs was struck a malicious blow by an undersized assailant. It would have been an easy matter to have struck back to the point of annihilation, but instead of so doing, he kept quietly on his way unmolested by a pugnacious human reversion to an early trouble-hunting ancestor.

Obviously his course called for a certain amount of self-control and earnestness of purpose, but none can doubt his wisdom in pursuing it. The intervention of private animosity where public uplift should be the order, is not countenanced by modern journalism. An editor, today, in order to wield a worthy influence in the cause to which his journal is pledged must possess a certain broadness of mind, stability of character and great discrimination as to what is really worthy of publicity.

The object of any periodical should be that of arousing thought among its read-

ers, and this is best done by picturing actual operations, and fearlessly voicing sincere and honest opinions as to their worth.

In clean journalism there is no place for personal animosities or petty prejudices.

STANDARD BREED ARTICLE CONTESTS.

A Double-header! \$25 in Cash for Best Article on "Reasons for Selecting My Variety." \$10 in Cash for Best Article on "How I Produced and Prepared 1915 Exhibits." Read the Requirements Carefully.

MR. FANCIER-BREEDER: Here is a double-header prize article proposition that should appeal to your sportsmanship and stimulate you to put some real earnest effort and thought into an endeavor to win one of the prizes.

You have a favorite variety of Standard fowls that you fancy. You should know why you selected that variety, why its beauty appeals to you, wherein you see the beauty, and wherein you find enjoyment in overcoming the difficulties of breeding your favorites to closely approach Standard requirements. There are many breeders who have considerable sentiment about being known as "fanciers"—well, here is your opportunity to present your case and incidentally compete for a cash prize of \$25. Bear in mind that this article must be solely from the fancier's viewpoint and must not make reference to utility values or eggs and meat. After all, utility qualities are found in all varieties and the popular breeds do not differ materially in the eggs and meat values, so eliminating this feature will save repetition and any charges of extravagant claims. This article should be "Reasons for Selecting

Smith's White Leghorns

Another Great Win! My strain made the greatest winning at the Greater Chicago Show, January, 1916, of any exhibitor in the class. Won 1, 2, 3, 4, 5 cockerel; 1 young pen; 2 old pen; 2, 5 cock; 2, 3, 4 hen; 2, 4, 5 pullet; best display; etc. This great win, together with my big win at the Chicago Coliseum Show, December, 1915, and at the World's Fair at San Francisco, November, 1915, proves the quality of my strain. My winnings for the season were the most consistent of any White Leghorn breeder anywhere! Grandest matings in the country for 1916—matings that will produce for you and for me real quality! Let me prove it. Catalog telling all about my Leghorns sent free. Eugene Smith, 317 Galena Boulevard, Aurora, Illinois

A. A. CARVER'S 1916 Mating List R. I. Reds and Sussex OUT

Contains the greatest lists of winners in the history of Carver's Red Farm. Why not buy this season of the man who mates and grows his own winners? Our last season's egg customers have won in the strongest competition.

Rhode Island Reds

CARVER'S QUEEN QUALITY STRAIN WINS
AT CHICAGO COLISEUM

First Young Pen, Second Old Pen. Also 10 Firsts in Ohio's two big shows—Forest City and Ohio State Fairs. Caesar The Great, also won First N. Y. State Fair, defeating over 50 cocks the season. All above winners grown from our own matings. Our last season's egg customers also report heavy winnings.

CARVER'S RED FARMS

Lock Box 200

Seville, Ohio



Sussex Speckled and Red

Importers from England's Best Sussex Breeder

Now on our farm, direct from England, the Great Champion International Cock King, First Crystal Palace, London, England. At National Sussex Meet, Chicago Coliseum, in tremendous competition—First Young Pen Red Sussex, and 15 Firsts in Sussex alone at the three big fall shows.

Our Sussex customers win at Buffalo, Philadelphia, and other shows too numerous to mention. Will it not pay you to buy of one whose customers Win as well as himself?

A. A. CARVER, Specialty Breeder

Lock Box 200

Seville, Ohio

"Lady Beautiful" Barred Plymouth Rocks

PULLET LINE ONLY

Again Win First Hen at the Madison Square Garden Show, Dec. 31, 1915 to Jan. 5, 1916

Making a Record Seldom Equalled by Any Exhibitor at this World Renowned Poultry Exhibition. During three years showing at Madison Square Garden, Philadelphia, Pa., Hagerstown, Md., Williamsport, Pa. and York, Pa., in the strongest of competition the "Lady Beautiful" Strain Has Never Lost a First Prize on Hens.

MATING LIST NOW READY

MADISON SQUARE GARDEN

1912—1st Hen; 2nd Pullet; Special for Best Shape Female.

1913—1st and 5th Hen; 2nd and 3rd Pullet.

Champion Female.

1916—1st and 5th Hen.

PHILADELPHIA, PA.

1913—1st, 3rd, 4th, 5th and 6th Hens; 1st, 2nd, 5th and 6th Pullet; 1st, 2nd, 4th and 5th P. B. Cockerel; 1st Pen to produce exhibition Pullets.

1914—1st, 2nd, 3rd, 5th and 7th Hens; Pullets, 1st, 4th and 8th; P. B. Cockerels, 1st and 4th.

1915—1st and 5th Hen; 2nd and 3rd Pullet; 1st, 2nd and 5th P. B. Males. And Many Specials.

HAGERSTOWN, MD.

1913—1st, 3rd and 5th Hen; 2nd and 4th Pullet; 3rd and 4th P. B. Male.

1914—1st and 3rd Hen; 3rd and 5th Pullet.

1915—1st, 2nd and 3rd Hens; 1st and 2nd Pullets; 1st, 2nd, 3rd and 5th Pullet-bred Males. And Other Specials.

SIX CHAMPIONSHIP FEMALE SWEEPSTAKES at Madison Square Garden, Phila. Pa., Hagerstown, Md. and Williamsport, Pa., during the past three years.

C. N. MYERS

Box E

HANOVER, PA.

My Variety." Be sure you name them.

The second prize contest will be for a prize of \$10 cash, open only to exhibitors who made their first exhibit in 1915 and calls for the best article on how you mated, cared for, reared, and prepared the birds you exhibited in 1915, to be entitled, "How I Produced and Prepared 1915 Exhibits."

These prizes are offered by Chiles & Company, Mt. Sterling, Kentucky, and it is a good clean sporting proposition well worth your while and open to fanciers of all varieties. Just the kind of a proposal you would expect to have come from "Old Kentucky." Here is the letter, read it and carefully observe the conditions therein:

Mt. Sterling, Ky., January 7, 1916.

Editor American Poultry Journal:

We note that breeders are offering prizes in your Journal for articles on various subjects, —we are always willing to get into the band wagon.

We know nothing about values save in dollars and cents and judge that the public, like ourselves, value money more than so-called cups, which may be low grade tinware.

Therefore we offer twenty-five (\$25) dollars in current coin of the realm, for best article on "Reasons for Selecting My Variety," giving the author's reasons why he selected the particular variety he is breeding, based solely on Beauty or the difficulties to approximately reach the Standard requirements. No egg bosh, utility, or anything of that kind to figure in the article.

We will give ten (\$10) dollars in hard money to the person writing the best article on "How I Produced and Prepared 1915 Exhibits," telling how he or she mated, cared for, reared, and finally prepared the birds exhibited in 1915. This prize limited to those who made their first exhibit in 1915.

As to who shall judge these articles we

leave that to American Poultry Journal. Our further interest in the matter is to pay whoever you may determine are the winners.

CHILES & COMPANY.

There you have two worth while prize offers for articles that are different from the usual competition articles. Go to it! The contest will close March 31, 1916.

Articles may contain about 1000 words and should be written on one side of paper only. Do not fail to observe the conditions named in the letter. We reserve the right to retain all articles submitted and to publish such as we consider worthy of space. Announcement of the winners and publication of winning articles will be in May AMERICAN POULTRY JOURNAL.

Send all articles to Dr. Prince T. Woods, Lock Box 4, Silver Lake, Mass., and mark them plainly "Chiles Co. Contest." Get busy now!

S. C. White Leghorn Contest.

ARE Single Comb White Leghorns popular? Well! Well! Just note what D. W. Young started by offering that \$50 cockerel as a prize for the best article on S. C. White Leghorns. Our January issue with the announcement was scarcely in the mails when the articles began to come in. How they did come in! Just a few at first and then the flood broke loose and the editorial staff offered to surrender unconditionally. When the final count was taken we had ninety articles on S. C. White Leghorns, and most of them good ones. No doubt

about our readers wanting that cockerel and not a shadow of a doubt about the popularity of the little egg machines.

Illinois sent in 11 articles; Indiana, 9; Pennsylvania, 8; New York and Ohio, 7 each; Canada, Iowa, Michigan and Wisconsin, 4 each; New Jersey, Oklahoma and Washington, 3 each; Kansas, New Hampshire, Massachusetts, Montana, California and Alabama, 2 each; North Dakota, Missouri, Oregon, Colorado, Tennessee, Kentucky, Arkansas, Minnesota, Idaho, Texas and Newfoundland, 1 each. That is *some* contest and well distributed. When it came to making the award we wished that there were many cockerels instead of one, but there was only one prize and but one article of the ninety could win it.

When the contest was about half over we wrote to Dan Young and told him that it was going to be a hummer. He sent the following reply:

Editor A. P. J.—Am glad to know that the contest has stirred up a lot of White Leghorn articles. I will see to it that the winner gets a full-fledged Fifty Dollar cockerel.
Monroe, N. Y. D. W. Young.

The final heat in that contest was a hot one when we got them thinned down to a dozen and all running close in a bunch. We had to organize a committee to help make the final decision. We congratulate the winner and all of the other S. C. White Leghorn enthusiasts who helped to make the contest such a success.

The \$50 cockerel is awarded to Karl Dittmer, Napoleon, Ohio, whose article was considered best in all requirements.

The winning article appears in another column of this issue of AMERICAN POULTRY JOURNAL and we also publish several other excellent articles received in this contest. From time to time we shall print more of them.

Have a Home Garden.

BE SURE to have a home garden this year. Plan your garden now. Even a very small plot of ground, intensively cultivated, may be made to yield a boun-



TRAPPED NESTED
BRED TO LAY

McDannell's White Leghorns

200-Egg Strain Win-Lay-Pay

Before placing your order for Hatching Eggs or Day-Old Chicks, write me. I know I can please you. Wonderful Type and Color. Free range, meaning sturdy, vigorous birds. Order early. Circular free. Satisfaction guaranteed.

M. O. McDANNELL, 1430 24th Ave. A, MOLINE, ILL.

REGALS ARE RECORD LAYERS



Regal White Wyandottes have always been a great winning strain, but this alone does not account for their wonderful popularity. It consists in the fact that they stand today as the greatest known combination of beauty and utility. They are grand layers, make rapid growth and are true Wyandottes in type. Mr. M. K. Boyer of Hamonton, N. J., is one of America's oldest and best known fanciers. The following letter gives his opinion of the Regals:

My Dear Mr. Martin:

It may interest you to know that I have a pen of Dorcas hens that are doing remarkable laying. I bought them in the fall of 1913, while pullets, from a party who purchased the eggs from you. There were ten of them and for the year beginning November, 1913, they laid 1,920 eggs, or an average of 192 eggs each. This year is not quite completed, but at the rate they have been laying, I know they will not fall far short of repeating their performance as yearling hens.

For the combination of beauty and utility, I do not believe there is a strain in the world that can beat yours.

Respectfully,

(Signed) MICHAEL K. BOYER.

State of New Jersey } ss.
Atlantic County

Personally appeared before me Geo. E. Strouse, a Notary Public for the State of New Jersey, Michael K. Boyer, who being duly sworn according to law, deposeth and saith, that the above statement is true and correct.

Sworn and subscribed to before me this eleventh day of September, 1915.

(Signed) GEO. E. STROUSE, Notary Public.

2,000 Cocks, Hens, Cockerels and Pullets For Sale, 2,000

SPECIAL—500 beautiful exhibition cockerels and pullets ready now to win the blue ribbon for you. One hundred well matured cockerels from my heavy laying Dorcas line, \$8, \$10, \$15, \$20 and \$25 each. Dorcas pullets, \$3, \$4 and \$5 each. Breeding pens (male and four females), \$20, \$25, \$35 and \$50. Stay white, vigorous utility cockerels, \$3 and \$5 each.

Eggs for hatching, Exhibition Matings, pens 1 to 20 (as they run), \$5 per 15, \$9 per 30, \$12 per 45, \$24 per 100. Dorcas Matings, \$5 per 15, \$15 per 50, \$27 per 100. Special Matings, \$10 per 15, \$18 per 30, \$25 per 45, \$50 per 100. Utility Matings from heavy laying stock, \$9 per 100, \$25 per 300, \$75 per 1,000.

Send one dime for the Regal White Wyandotte book telling all about the Regal Strain. **FREE**—Send for my 20-page catalog and mating list giving description of all my matings.

JOHN S. MARTIN

Box 51

PORT DOVER, CANADA

tiful supply of vegetable food fresh from the garden.

Last year we had an unusually fine garden in spite of the cold and wet season. We had peas, beans, asparagus, lettuce, chard, corn, squash, melons, potatoes, carrots, turnips, beets, tomatoes, cucumbers and other truck in abundance; plenty for the home table and some to give away and some to sell. Possibly this "garden sass" cost us in seed, fertilizer, and labor as much or more than we would have had to pay at the market for stale and shop-worn vegetables. We can't say positively as to that, for we didn't have a garden for the purpose of keeping account of the cost or the cash profits. However, it did *pay big profits in satisfaction and convenience*. We had a bountiful supply of good things, of the sorts we prefer, and we had them fresh from the soil.

We would not be without a family garden, even if we had to cultivate a tiny plot of ground and grow things close and tied up to stakes and trellis, and each new crop close on the heels of the preceding one. The home garden is worth many times its cost and the cost need not be much.

Be sure to add a flower garden also just for the beauty of it. It brightens up the home place and helps to make everybody happier. Even if you have to plant in borrowed earth in pots and boxes, don't be without a garden of some sort this year. It will do you good just to watch things sprout and grow. We have seen some wonderful gardens on the roofs of city blocks, on porch roofs and in window boxes. Plan your garden now, make ready for spring. Get the real pleasure that comes from making plants grow, blossom and bear fruit. It is worth while.

You need a garden of both flowers and vegetables. Be sure you have one.

NET COST OF A DOZEN EGGS.

Twenty-one Dollars in Prizes for Best Articles.

WE WANT actual facts concerning the net cost of producing a dozen marketable eggs, for every month in the year and for all sections of this country. Every utility poultryman ought to keep an accurate account of what it costs him to produce eggs. We desire to make it an object to you to figure your net cost of eggs for us. Therefore we offer the following cash prizes for best articles on net cost of producing a dozen eggs, figures to include each month in the year.

First Prize for best article, \$10.00.

Second Prize for next best article, \$5.00.

Third to Fifth Prizes for next best articles, \$2.00 each.

Now, we do not want any stories of *faked profits*, we want facts about production cost. Any story that tells about a remarkable record hen with a wonderful yield of eggs, many of which were not marketable, and that attempts to show returns by subtracting the cost of that hen's feed from the presumed total value of her eggs, presents a faked profit tale that is misleading. We don't want that kind.

Figure your cost just as any manufacturer would. If you wish to attempt to show profits, state actual returns for eggs sold or for eggs used at the selling price.

Your cost account should include: *Investment cost*. Figure this at 5% for the year on money actually invested in land, buildings, layers and equipment. To this add taxes, insurance and repairs. If you rent the land, figure your rent instead of the 5% of land value. Do not forget to also figure and add *depreciation*. On buildings and equipment, in-

cluding fences, the depreciation may be conservatively figured at 10%. If you pay a water tax, or maintain a water system, the poultry should be charged with their proportionate amount of same. An important item of depreciation that must not be overlooked is the loss from sickness or death of members of the flocks, or losses from sale at pound

NAPOLEON at the zenith of his colossal career never gained a more complete **VICTORY**

—over all his powerful enemies than was gained by—

Halbach's W. Plymouth Rocks

In the Arena of the Recent COLISEUM CHICAGO SHOW



Madam Snow-drop

IT WAS A BATTLE ROYAL. The Kings, the Monarchs and Rulers in the World of Wh. Plymouth Rocks had marshalled the flower of their forces in battle array at this show, so that it was asserted again and again that never had any show-room in America seen such a magnificent gathering of the truly greatest birds in White Rocks. Chicago this year was without a doubt the stage for the greatest White Plymouth Rock battle that has ever been witnessed by man. It was in this **GREAT BATTLE ROYAL** that Halbach's White Rocks won such a

Glorious Victory

that it will go down in White Rock history as the greatest, most complete and most decisive ever chronicled. They won—not only one first—not only two or three firsts—but **EVERY** first prize,

except one, in the entire show. **First Cock, First Hen, First Pullet, First old Pen, First young Pen**—and they didn't stop even there—oh no!—but won **EVERY** second prize in the show down the entire line, except one, and **EVERY** third, but one. Such a brilliant victory in such a show, where only the best, the very best, were in competition with each other means but one thing—that

Halbach's White Rocks Are Unequaled

WISE BREEDERS will take notice and will study the above with care and with thought. While this strain of birds has been the foremost winner for the past seven years, they have never been boomed and boosted as they should have been—NOW, HOWEVER,



King Champion 2d

THE HALBACH STRAIN OF WHITE ROCKS

will be boomed and advertised as never before. They seem to be the best now being bred anywhere in this wide world and the world shall know it.

Every Halbach White Rock is positively guaranteed to please the purchaser or the entire purchase price will be refunded. If you are interested on this basis, write me. A big, beautiful illustrated catalog sent for 20 cents. Keep this in mind;

HALBACH HAS THE MOST BEAUTIFUL WHITE ROCKS

H. W. HALBACH

Rural Route 1, Dept. C, WATERFORD, WISCONSIN

Eggs from the Best Show Birds ever produced
\$12 per 15, \$23 per 30 or \$70 per 100.

SPECIAL

300 cocks and cockerels at cut prices. Head your pen with one of these Champion-bred males at \$8.00, \$10.00, \$15.00 and \$25.00 each. Breeding trios, perfectly mated that will start you with this great line at \$15.00, \$20.00, \$30.00, \$35.00, \$50.00. Order direct from this advertisement. Get satisfaction.

prices of birds necessarily culled from the flocks and selling below cost.

Food expense should be figured at actual cost of food used for feeding the flocks. You will find that non-producers greatly increase the cost of maintaining your flocks.

Labor expense must be figured whether you do your own work or not. Charge for the actual time required in care of fowls and eggs at the usual rate paid for such labor in your section. We have to hire our poultry labor and the actual cost is 23 cents per hour.

Marketing expense should be figured if you intend to be absolutely fair with yourself in this matter. Profits cannot begin until your eggs are delivered to the customer. When you ship eggs you have to pay express, losses by breakage, cost of cases and return of same. If eggs are sold at the door they have to be packed in cartons. Our cost of marketing eggs will average the year around about 3 cents per dozen.

For the past five years we figure that it has been costing us an average of from 24 to 29 cents a dozen to produce eggs and place them in the market. Figuring the actual net production cost month by month for four years we obtained the following results:

NET PRODUCTION COST OF A DOZEN EGGS IN CENTS.

Month	Av. Cost	Low	Av. Market Price
January	42	32	35
February	38	25	35
March	17	15	30
April	15	13	21
May	16	14	21
June	18	11	22
July	21	12	25
August	25	14	27
September	33	15	30
October	45	35	35
November	50	36	45
December	40	30	40

This high and low average cost per dozen is given to show variation which occurred in the same months in different years and due to variable causes over which the poultryman has little or no control, fluctuations in egg yield, grain prices, etc. To some extent weather conditions affect the yield.

From figures from egg producers in various parts of the country we have received statements showing net cost per dozen eggs varying from 20 cents to 29 cents average for the year. According to the Thirteenth U. S. Census the average selling price of eggs thruout the farms of the United States in 1909 was 19.5 cents per dozen. The average production per hen was then about 80 eggs per year, 200-eggers are still scarce and it is a pretty good flock that will aver-

age better than 12 dozen eggs per hen for the year.

It is all very well to say that Madam X produced 360 eggs in a year worth \$9 at 30 cents per dozen and that she consumed \$1.80 worth of food, thereby showing a *fake* profit of \$7.20 on one hen in a year. But how about Madam X's 999 companion hens, who also ate at the same table and who brought the flock average for 1000 hens down to 144 eggs per hen per year? Also how about the other items of expense besides just cost of food alone? How about the "marbles," soft shells and other unmarketable stuff she laid and had counted?

We do not intend to say any more here about production cost. We want you to enter our contest and send us facts about what it costs you to produce eggs from your flocks. You are not limited to any special number of words. Simply state your facts and tell your story as plainly and thoroly as necessary and stop when you are done. Please write on one side of the paper only.

The contest will close May 1st, 1916, and all competing articles must be in our hands by that time. Announcement of the winners and publication of the winning articles will take place as soon thereafter as possible.

We reserve the right to retain all articles submitted and to publish such as we consider worthy of space. Don't submit fiction, give us straight facts and figures.

Send all articles to Dr. Prince T. Woods, Lock Box 4, Silver Lake, Mass. Mark them "Egg Cost Contest."

Get down your egg records and account book for your flocks for the past year and get busy. Most manufacturers figure that in order to live and show a profit they have to set the retail price at not less than three times the production cost. How about the egg farmer who ought to get 5 cents each for his eggs the year around, but doesn't?

Hon. Chas. M. Bryant.

HON. CHARLES M. BRYANT, ex-president of American Poultry Association, died at his home at Wollaston Heights, Mass., of pneumonia, on February 8, after an illness of a few days.

The news was a decided shock to his friends who had met him hale and hearty as ever, only a few weeks before at the big Boston Show. Mr. Bryant was mayor of Quincy, Mass., in 1902, 1903 and 1904, and was known as "Quincy's most aggressive and progressive mayor." He was a prominent business man in Boston and reckoned both shrewd and honest and an enemy to all grafters.

He was president of the American Poultry Association in 1907, 1908, 1909

and 1910, and later was a valued member of the Executive Board, bringing to the association business experience and executive ability that was of great value to the organization.

As a fancier of Rhode Island Reds and member of the Rhode Island Red Club he did much good work for the advancement of his favorite variety and was widely known as a judge of Reds.

He was an active sportsman and a member of the Megantic Fish and Game Club, Brookline Country Club, and was well known as a yachtsman in Boston Harbor and Quincy Bay.

DR. WOODS' NOTES AND COMMENT.

MARCH.

Ah, March! we know thou art Kind-hearted, spite of ugly looks and threats, And, out of sight, art nursing April's violets! —Jackson.

The American Poultry Association's annual nominating ballots will soon be counted. Wonder who the candidates for office will be? Quite a few members believe that we need a change.

Isn't it good to see those early chickens; such husky, sturdy little fellows? Well fed and well cared for they should yield good early cockerels and pullets.

All good mother hens that come broody this month should be set on selected eggs. It should be a good month for both incubator and hen hatching.

The demand for hatching eggs has been very good and some big hatcheries take most of the surplus. That is very satisfactory, as the market price of eggs has been slumping steadily. If we can hold enough hatchery trade for our output we intend to set 35 cents a dozen as the low asking price for table eggs sold at the door this season, to automobile, and other transient trade. We believe that if poultry keepers would co-operate and endeavor to fix the price of market eggs themselves, instead of permitting the middlemen and grocers to set the price for them, that the strictly fresh new-laid egg business could be put on a much more satisfactory foundation.

One customer on being told that our price was 40 cents, said: "Why, I can get eggs at so-and-so's for 30 cents a dozen." "Very well, Madam," we replied, "why not get them there? Our eggs are new laid, from well fed healthy hens and are fresh from the nest." "But I prefer your eggs," said she; and she took them at 40 cents and is still a regular customer.



KEELER'S WHITE WYANDOTTES

The Aristocrats of the White Wyandotte World

Have again demonstrated their superiority by winning at Chicago, January, 1916, in a class of 194 White Wyandottes, 1-2-3-4 cockerels, 1-2-4 cocks, 1-5 hens, 1-5 pullets, 1-3 young pens and 2-4 old pens. Seven specials, including Silver Cup for Grand Championship, \$50.00 Silver Cup for most points on any breed in whole show (3,500 birds); also \$25.00 membership cup.

The World's Greatest Strain. EGGS! EGGS! EGGS! EGGS!

The pens that will produce 1916-17 winners were mated December 15th, and I am in a position to supply you with eggs from the 16 best matings of White Wyandottes in America. These pens contain my Chicago winners, also the best birds reared the past three years—sons, daughters, brothers and sisters to these winners. They are bred right and mated right and will produce the winners for America's best shows. Send for my 1916 64-page art catalog and mating list (5 red stamps appreciated). Eggs, \$5.00 per 15; \$9.00 per 30; \$14.00 per 50; \$25.00 per 100. Special matings, \$10.00 and \$15.00 per 15.

CHAS. V. KEELER

R. F. D. 11

WINAMAC, INDIANA

An egg collector, on our refusing to sell him a case of eggs at his price—30 cents a dozen—told us that we would not be able to get more. To which we replied, that in such case we would not sell. After waiting outside in his wagon for a little while, he knocked on the door and said: "I want your eggs for my customers and will give you 36 cents a dozen for that case."

* * *

We believe that a little co-operation and real effort in the selling of market eggs on the part of producers in any community would result in better and steadier prices for good new-laid eggs. Too many producers are afraid that they will not be able to sell and so take what they can get. In our home town, at present writing, collectors are paying all sorts of different prices at the farm for eggs. One collector offers 30 cents a dozen, but will give 36 cents rather than not get the eggs. Another will pay no more than 32 cents; another offers 34 cents, and still another will not offer above 28 cents per dozen—all in the same locality and the same week. A buyer of live poultry paid a neighbor of ours 14 cents a pound for fine fat old hens, refusing to give more. On the same day the same man came to our place and offered 18 cents a pound for similar birds and finally paid 20 cents a pound for old fowl and 25 cents a pound for young. Also he short-weighted the man who sold at 14 cents a pound, but took our birds at our weights on our own scales. He always tries to "dicker" at our place, but he generally takes what we have to sell at our "take them or leave them price." Most buyers around here are Europeans and they don't think much of a producer that takes the first price offered. They are accustomed to haggling and dickering, in fact seem to enjoy it, though we don't. However, it is the only way one can trade with them and not leave all the profit in their pockets. It is interesting to note that they appear to enjoy the treatment they get at our place, as they come regularly and usually leave a gift of queer long cigars of plain rolled tobacco leaf when they drive away with their purchases. If we got left with the goods on our hands we should ship to market ourselves, but so far we have made the top price at the door without having to go to the expense of dressing and shipping.

At this season eggs can be incubated and turned into chicks that sell at better profits. There is good local demand in most places for day-old chicks from pure bred stock at from \$12 to \$20 per hundred. You can generally figure that \$12 per hundred for chicks is practically 6 cents each for your eggs. We do not expect to have any surplus chicks to dispose of this season that cannot be sold at good prices right at the door without the bother of shipping.

* * *

For private trade in market eggs we use a 2x6 egg carton, which costs us, printed and delivered, \$7.50 a thousand. This case bears the card:

SELECTED NEW LAID EGGS

*From Well Fed, Well Kept,
Healthy Fowls*

THE ANCHORAGE FARM

PRINCE T. WOODS, M. D., Prop.
Plympton Sta., Silver Lake, Mass.

This carton packs neatly into regular market cases. Later on we expect to seal it with the Massachusetts Poultry Society seal and serial number, when such are available. As only the best selected eggs right from the nest are packed in these cartons, we believe that they will help to create a greater demand for eggs from our farm.



Unretouched picture, showing the type of Leghorns that are bred by M. O. McDannell, Moline, Ill. Note the long back and low, well spread tail.—F. D. R.

Whenever we write up a poultry plant we always try to tell our readers just what we saw and learned that we believe useful and helpful to them. Every poultry farm has its lesson or lessons of value to other poultry keepers and readers are entitled to the truth and a faithful presentation of the facts as we see them. Altho the reports are written for readers, we are pleased to say that, to date, we have had only letters of commendation from the proprietors of the plants written up. They know that when we visit any farm we will tell the truth about it as we see it, without being influenced in any way by the amount of advertising they carry in this magazine or the lack of it. We are glad to say that the proprietors of this magazine have made this plainly understood. We have been encouraged to give our own personal view without fear or favor. During the coming summer we expect to visit and obtain the story of several plants that have never spent a dollar in advertising with us and may never do so. We have never yet visited a plant that did not have worth-while lesson and some real human interest story in it.

When we visited Dan Young last December, we wished that we could have spent more time there; we could have done so with profit, for there is much there that it is worth while to see and to study. We intend to go again and to make a longer stay. Our report in February issue, tho hurriedly written, was sincere and honest in its presentation of our views and we are glad to be able to give here a letter from the proprietor expressing his appreciation:

Monroe, N. Y., Feb. 5, 1916.

Dear Doctor:

I received a copy of your article from Mr. Bell and am using it in my mating list, so you may know what I think of it. Am glad to let you know that it is the best and truest article that has ever been written about my birds or place, and think if more of the editors would tell the real truth in their articles, the outside world would have more faith in the poultry business and not think that we were a band of hypocrites and crooks. With kindest personal regards to you and yours from Mrs. Young and myself.

D. W. YOUNG.

Mr. and Mrs. Young stand high in our esteem, and tho this was our first visit to their home, they are friends of many years standing. Naturally we are glad that they are pleased, altho we are sure that with more time at our disposal we could write a much better story and give

William Cook & Sons

Originators of all the Orpingtons

Box A

SCOTCH PLAINS

NEW JERSEY

(Established 1873)

EVENTUALLY if wanting the Best Orpingtons, any variety, you will end to their Originators. Why not now, and avoid loss and disappointment? Our guarantee of satisfaction is backed by a reputation of 43 year's standing; this means something to you.

Lower prices and better quality than anyone else. How do we do it? By breeding thousands of birds from the best in the world, and having made the Orpingtons, we KNOW how to mate for the best results. This knowledge *saves you money*. Advice free.

We have won over fifteen thousand first prizes. Our birds are recognized as the finest layers in the world.

Send for our new 1916 Illustrated Catalog with history of the Orpingtons and hints on poultry keeping.

EGGS from our winners and the finest Orpingtons in the world \$20 a setting; from fine stock at \$10 and \$5 a setting. Ornamental land and water fowl for sale.

Cook's Roup and Worm powder and Laying and Condition powder, at \$1 a box, are recognized as the best.



more interesting and helpful details about the work on that plant, for we know that it holds a great deal that is of worth-while interest to us and to our readers.

* * *

In November issue, giving our opinion concerning crooked breast bones, we



Mr. O. B. Warren, Hibbing, Minn., has really some remarkable S. C. Rhode Island Reds. The fine type of the birds bred by him is very much in evidence in the above picture.

said: "Generally a crooked breast bone indicates malnutrition at some period of growth or some lack of constitutional vigor. * * * * We are satisfied, whatever other folks' chickens may do, that

in our experience we never get crooked breast bones without some constitutional cause for it. The early roosting is not the cause."

Referring to this, a letter from R. A. Chiles, Mt. Sterling, Kentucky, says: "Read with interest Dr. Woods' ideas relative to crooked breast bone in your November number. I never knew of one where the foundation stock was vigorous and had plenty of good whole-some feed."

* * *

Our big February issue was a bit late and the several big shows and large number of pages put a lot of extra and rush work on everybody, printers included. As was to be expected, there were quite a few typographical errors and some whole lines left out, but the most ridiculous error of all was on page 237 where the types made us say: "Mr. Bell will testify that, when he was on our place last Spring, he saw 3 chicks that came from 30 eggs, hatched under two hens in our barn loft during April." A truly remarkable thing for Mr. Bell to see and testify to! But what we said and what Mr. Bell saw was "30 chicks from 30 eggs," a one hundred per cent hatch from two hens set in our barn loft. We hope that the printer gets this correction straight.

* * *

Reviewing the lengthy and tiresome discussion of the Harrison-Penick case in the December and January *Reliable Poultry Journal*, we are reminded of that old saying of Scott:

"Oh, what a tangled web we weave,
When first we practice to deceive."

Editor Curtis in his December issue on page 1157 tells how he stood with

Ex. Board report in hand and asked to be enlightened as to its origin. But, "no one saw fit to answer." Later on he tells that "neither Mr. Harrison nor anyone else volunteered to answer Mr. Curtis' question as to where this report came from in typewritten form." Then in his January issue, page 1252, he apparently



Single Comb Buff Leghorn cock, owned and bred by C. H. Leitner, R. F. D. 4, Box 8, Elgin, Ill. A winner at the Rochester, N. Y., Show, January, 1916. A bird of grand color and good type.—F. D. R.

flatly contradicts his December statement by giving what purports to be a verbatim stenographic report of his question and a thirteen line reply to

LATHAM'S Barred Rocks WIN

BEAUTY AND UTILITY STRAIN

Their record to date over 320 prizes, including 42 first prizes. All these winning birds were bred, raised and exhibited by the originator and owner of this strain. Heading my matings for 1916 are 13 of the finest pullet-bred males I ever had in my yards, including five first and second prize birds at the Palace and Boston shows of this year. All these males are either winners or bred from winners. Females in the matings are the cream of 30 years study and successful breeding of this line of Barred Plymouth Rocks. This strain is the richest blood line of high winning females at America's greatest show that are living today.

Eggs for Hatching, \$10 per Sitting

Better value in eggs for hatching cannot be bought anywhere at any price. Every egg I sell for hatching I guarantee shall come from the females that are in these matings, being the same matings I shall breed for myself.

The BEAUTY and UTILITY STRAIN is bred exclusively for production of Exhibition Females.

C. H. LATHAM

Box 145

LANCASTER, MASS.



2nd Prize Pullet Bred Cockerel, Palace Show, 1915

A. C. WILLIAMS Ravenna, Ohio

BREEDER OF

Speckled Sussex and Buff Orpingtons

SPECKLED SUSSEX

At the National Meeting and Club Show, Chicago, December, 1915, we won 1st Cock, 1st and 4th Hens, 4th Cockerel, 5th Pullet, 2d Old Pen, 3d Young Pen. At Cleveland, January, 1916, we won 1st and 2d Young Pens, 1st Old Pen, 1st and 2d Hens, 1st Cockerel, 1st, 2d and 5th Pullets.

BUFF ORPINGTONS

At the National Meeting and Club Show, December, 1915, we won eleven (11) prizes out of fifteen entries. At Cleveland, January, 1916, we won 1st, 3d and 4th Young Pens, 1st and 3d Old Pens, 2d, 3d and 5th on Cocks, 3d Hen, 1st, 2d and 5th on Cockerels; 4th and 5th on Pullets.

Stock of Both Varieties for Sale. Mated Trios and Pens a Specialty. Eggs in Season. Write Me Your Wants.



same by Mr. Harrison, in which said Harrison denies all knowledge of the typewritten report. It has been said of gossips that a tale oft repeated grows wonderously with each telling, and this much discussed case appears to be no exception to the rule. It is truly marvelous how it grows and changes with each new telling. At its present rate of growth it will soon crowd everything else out of both of Mr. Curtis' publications.

* * *

After reading Editor Curtis' many and ever increasing pages of "evidence," discussion, and remarkable tales of detective work, spying, charming confidences with hotel stenographers, wonderful deductions in which a Latin dictionary becomes transformed into a "law book" of unknown potentiality, water pitchers become imbued with untold significance, members look at one another with unknown meaning, and even Robert's Rules of Order becomes a storehouse of malignant deductions, we are lead to believe that the *Reliable Poultry Journal* editor's version of the Harrison-Penick case is even more remarkable in the annals of sleuthing fiction than Emile Gaboriau's famous *Monsieur Lecoq*. Altho we had some eight years experience with Mr. Curtis' unpleasant system of spying, we really did not know that he prided himself so much on his Sherlock Holmes' methods.

We believe we have read all that Mr. Curtis has written about this famous case; also the statements of Messrs. Veach and Bailey, and most of the evidence which has been presented, including the fact that Mr. Harrison sent three extra birds with his shipment which more than covered the one hen claimed

as missing. Also we have read Mr. Harrison's simple and manly presentation of his side of the case, which was received just as we were about to go to press. Considering all the facts, and other statements, which we have so far seen in connection with this case, we do not



see how the Executive Board could do other than exonerate Mr. Harrison and it really appears that it was asking a good deal of him to refund any part of the money. In fact it does not appear to us, personally, that the customer had any right to a refund according to the evidence and that such refund was a

matter of courtesy on the part of Mr. Harrison and not of right. We have known Mr. Curtis a long time, worked for him for eight years or over, and we know very little about Mr. Harrison, having only a speaking acquaintance with him, but we can say frankly, and without prejudice intended, that we believe Mr. Harrison has been both fair and reasonable in this matter. It should have been dropped at the close of the first hearing when both parties agreed to abide by the decision of the Executive Board as final.

* * *

We do not believe that any breeder should be called upon to accept the return of birds as unsatisfactory after they have been uncooped and introduced into the new owners yards or have been shipped by him to some other place for handling and inspection. There ought to be some limit in such matters. If any purchase is unsatisfactory it should be returned immediately, without delay. Today the city department stores are all changing their rules regarding "on approval" purchases and hereafter most of them will not exchange goods held more than three days by the customer. It is no more than right. In the case of fowls or other live stock found unsatisfactory by the purchaser the shipment should be returned within, not over, 48 hours after received. We had one customer last spring who bought a breeding cockerel and kept it two months without complaint, then he wanted to return it as unsatisfactory. We sent him another bird as a gift, altho we do not consider he had any right to one, but we were glad to satisfy him at the price, and we refused to permit the first bird to be shipped back,—told him to kill it or keep

Young's Strain s.c.w. Leghorns

I Have No Other Breeds

Another Phenomenal Win at Madison Square Garden just closed



Cocks—1-2-3-5

Cockerels—1-2-3

Pens—1-2

Hens—1-2-3

Pullets—2-4-5

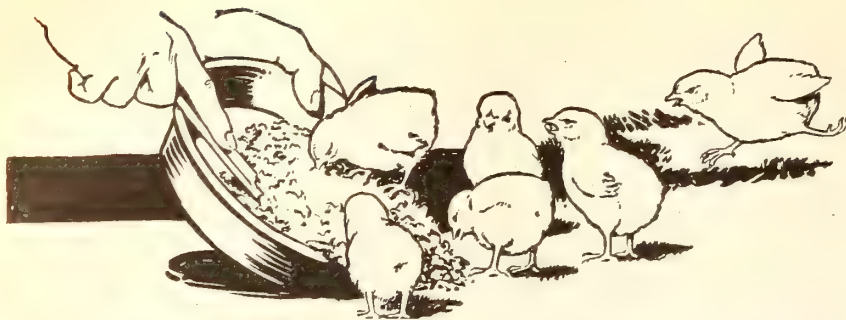
The one Strain that has made good. This is the fifteenth consecutive year that I have won best display and from three to five first prizes at the world's supreme show, Madison Sq. Garden, New York. My strain is acknowledged thruout the world as being the standard for all the Leghorns of all America. They have been line bred for heavy egg production alone, since 1853, and the show birds have simply been chosen from the record layers, a point worth noting.

Hundreds of grand breeding Cockerels for sale that will improve your stock both in laying and exhibition qualities. Why not come to headquarters and get the best.

Mating List FREE.

Box E-12

D. W. YOUNG, Monroe, N. Y.



Careful feeding pays, and you know it

THE men who make the big money in poultry raising are experts on feeding. They watch their little chicks. They provide a feed having just the nutritive elements the chicks need. That's why they get results.

You don't have to worry—you don't have to mix your own feeds. We do that for you, and we have done something you cannot do—prepared a special feed your chicks can digest easily and thrive on. Its name is

H-O Steam-Cooked Chick Feed

Preferred by poultry raisers because the starch is easily digestible, owing to our process of steam-cooking. Free from excess moisture, so does not spoil, but keeps sweet for a long time.

Try H-O Steam-Cooked Chick Feed this year. One of our customers says: "I did not lose a single chick last year, and never was so successful in raising a lot of healthy, vigorous chicks."

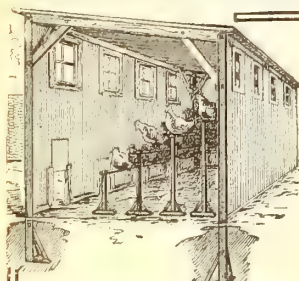
Write for free sample, prices and descriptive folder.

THE H-O COMPANY

Mills:
BUFFALO, N. Y.

JOHN J. CAMPBELL

General Sales Agent
HARTFORD, CONN.



Carbo Units

are best for supporting chicken houses, garages, sheds or other buildings.

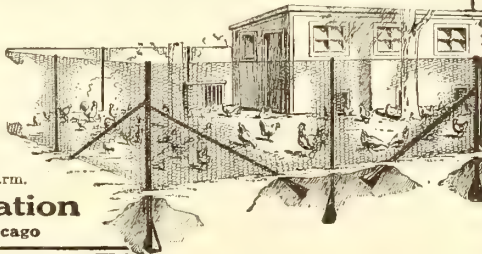
Just set in earth. Life ten times that of wood. For supporting fencing between terminals, use Carbo Spring Supports.

Write for Catalog 16, which tells about Carbo Units and their 101 uses about the farm.

The Carbo Corporation
301 Rand-McNally Bldg., Chicago

Carbo protects life and health

Use Carbo Units to support your poultry yard fence, and have a fence that is vermin, filth, dirt, moisture and disease proof. No wood to gather dampness and rot. Three Carbo Units make a fence corner that will outlast the fencing wire. One man can set this corner in a half-hour. Carbo sets in earth—no concrete used. Less expensive than wood, concrete or semi-steel posts.



World's Champion S. C. White Leghorns

Cockerels for sale bred direct from The World's Champion Laying Pen composed of ten hens from Tom Barrons' Pen O, international contest winners, 1914, at Mountain Grove, Mo. They are large, vigorous cockerels in good condition and health. March and April hatch. Absolute satisfaction guaranteed. Write today for descriptive circular.

ULTRA-AVES POULTRY FARM

M. H. WAUGH, Proprietor.

511 Loucks Avenue

PEORIA, ILLINOIS

43 Varieties

Poultry, Squab-breeders, Fancy Pigeons, Ducks, Geese, Pea Fowl, Pheasants, Wild Game, Dogs, Incubators. Feed and Supplies. Handsome catalog in colors free.

MISSOURI POULTRY & SQUAB CO.

Dept. R

KIRKWOOD, MO.

it as he pleased. He was delighted with the second bird and we heard no more after getting his letter of thanks.

* * *

Referring to the article by J. F. Robinson in January AMERICAN POULTRY JOURNAL on "The Production Cost of a Dozen Eggs," Editor Harker in *The Pacific Fanciers' Monthly* says: "Mr. Robinson elaborates on the cost of keeping poultry, and produces all sorts of figures in the expense account to prove that one must get 25 or 26 cents per dozen for eggs the year around before any profit can be realized. Why not knock the business on the head and be done with it? But the point we wish to make, and which both Mr. Robinson and the editor of the AMERICAN POULTRY JOURNAL both entirely overlook, is the fact that, as we stated plainly in December *Pacific Fanciers' Monthly* we referred only to the food cost of one dozen eggs, not to the mass and mess of other expenses: labor; interest on investment; depreciation; axle grease for the wagon which takes the eggs to market," etc., etc.

We are glad to know that the Editor of *Pacific Fanciers' Monthly* was counting food cost only, but in his article which we quoted in November AMERICAN POULTRY JOURNAL he made it very plain that he was talking about "clear profit" and "net cost of a dozen eggs to the poultry keeper." On so important a question we do not care to make any mistakes and we certainly do not wish to have it appear that Mr. Harker was in any way misrepresented by us. However, we do not understand how any business man can talk about "clear profit" and "net cost" unless he figures all legitimate expenses; or if he refuses to include "the mass and mess of other expenses" and counts only the "food cost" of the fowl, which is only a part of the real cost of production. Now we do not believe that Mr. Harker would count the "net cost" or "clear profit" of his excellent poultry monthly by counting only the cost of ink and paper and leaving out consideration of the other expenses of publication.

We have no desire to "knock the business on the head," quite the contrary, but we do believe it is high time that poultry keepers had more definite knowledge concerning the actual cost of production of both eggs and poultry meat. We believe that by encouraging them to adopt business methods and to take accurate account of their expenses, we are helping them toward putting their business on a more safe and sane foundation. Poultry keepers have so long been fed on fake profits and tales of "clear profit" derived from subtracting the cost of the hen's food from the market value of the eggs she produced—which is not clear profit and certainly food cost is not net cost—that every season some enthusiast puts his hard earned savings into "egg farming" only to learn to his cost that it is not the golden road to easy riches that some have mislead him into believing.

A subscriber writes on this subject as follows:

Goshen, Ind., Jan. 30, 1916.

Editor American Poultry Journal:

Do you want to help the commercial egg farm to make a living and keep out of the poor house? If so, keep hammering away at cost of production and the necessity of getting a profit. I estimate the food cost only for my Leghorns at 15 cents per bird per month or \$1.80 per year. The actual cost of production for nine months is 20 cents per dozen and for the remaining three months is 40 cents per dozen. Labor and overhead expenses are 5

cents per dozen. Containers and postage 5 cents per dozen, to which must be added a reasonable and decent profit of say 5 to 8 cents per dozen. I am talking about strictly fresh, new-laid eggs, to reach the consumer in from three to six days from the time laid. I would like to hear from any commercial egg farm that is making money. Mr. Ott, of Waukegan, told the writer that there was not a commercial egg farm in the United States making any money. What say you?

A. C. LOOMIS.

That is only one letter out of many of like tenor. What we want is facts. Eggs are an important food product and egg farming is very necessary for increasing and improving the food supply of the nation. The only way to improve conditions in egg farming is to get it on an efficient business basis and there can be no real efficiency until egg producers get a better understanding of the actual cost of production and, if possible, learn how to lessen that cost, or how to get a better price for their product so that they can make a good living profit. It is possible that the cost of production



Winner of first White Indian Runner, old duck, Madison Square Garden, 1916. Very good type and color. Bred and owned by E. G. Curtis, Atsion, N. J.

may be made less by intelligent effort, but it is certain that the selling price of the best new-laid eggs should be higher than it now is the year around. Tales of easy profits, and profits based on food cost only, encourage poultry keepers and would-be poultry keepers to try season after season to make a living out of the business. Each year they struggle manfully and hope that it will prove better than the last. Yet, the past year the "high price season" has been shorter than for many years and in the low price season last spring the selling price of eggs dropped so low that only the favored ones could show a profit even above food cost.

Now, there is a fair living profit to be made from market eggs if the egg farm is well managed and the selling end of the business properly attended to. A good location on a good road helps, but even in poor locations we know men who have made a comfortable living out of producing eggs, making 2,000 hens show a profit of about \$1 per year per hen. There are successful egg farms, but the proprietors are hard workers and cut close corners on expenses; also they put a lot of effort into the selling end of their business. The more successful ones contract to sell the major portion

A Revolution in Egg Production



is the title of a new book by George G. Newell, just from the press, and its name states exactly what it is: A Revolution in the Methods of Securing a Large Egg Production, and

IT WORKS!

Mr. Newell leaves nothing to theory or imagination—he gives all the "whys" and "wherefores"—the cold figures and plain facts—he is a hard-headed business man himself—of just what this system will do and why it does it. He not only supplies detailed knowledge of how to care for poultry, but also gives the reader something in the way of a post-graduate course, and, besides all this, he brings forward subjects which, to our knowledge,

Have Never Been Taken into Consideration Before

This is not a book for beginners. This is not a book for past-masters. It is a book for every man, woman or child who keeps poultry for pleasure or profit, because it not only carefully analyzes the already well-known factors of heredity and environment, but takes up the heretofore un-

explored subject of lengthening the hen's working day in the Winter, when the egg yield is lowest, and shows that by application of the **new principles** laid down in this book you can secure a much larger egg yield.

The first 12 days after trying his new system

Mr. Newell Increased His Egg Yield Over 100 per cent

and he keeps it up. He received an actual percentage of 43.52 of an egg per hen per day during a very cold February. Other poultrymen are using this system with success—friends to whom Mr. Newell has explained it verbally, and it is now offered to you in a **handsome, illustrated cloth bound book of 112 pages,**

for \$1.00

AMONG THE SUBJECTS COVERED IN THIS BOOK ARE

Chapter I—Feeding and Care—Care and Feed in General; Balancing the Ration; Conditions Should be Watched and Noted; What to Feed; Under Feeding; Over Feeding.

Chapter II—Housing and Appliances—Automatic Feeders; Fussing vs. Economy of Time; Water Problems; Housing, Ventilation and Light; Trap Nesting; Incubators or Hens for Hatching.

Chapter III—Brooding, Breeding and Yarding—Brooding Problems; What Breed? Meat Production

a By-Product; Yards and Exercise.

Chapter IV—Production and Care of Eggs—Spring and Summer Eggs; Fall and Winter Eggs; Care of Eggs; "Ask the Birds, Their Judgment is Good"; Production Under Present Methods; Production Records for 1913.

Chapter V—Basic Theories—"Whys" and "Wherefores"; Limited Fuel Boxes; Value of Light; A Hen's Business Day.

Chapter VI—Remarkable Results—The Problem

Solved; Production Records for 1914-1915; Longer Days Effects on Health and Vigor.

Chapter VII—Practical Application of Proven Theories—Production Possibilities; Averages and Percentages; Press Comments on the Experiment; Corroborations of Long Business Day Benefits.

Chapter VIII—Conclusions—Trying it on the Ducks; Heredity and Performance; Egg Production as a Business Proposition; Capital and Equipment for Large Flocks.

ORDER TODAY OF

American Poultry Journal Publishing Co. 542 S. Dearborn St., Chicago

of their output, without regard for market quotations, to some large consumer at a fixed price of from 40 to 50 cents per dozen the year around. They really should get 60 cents a dozen in order to compare favorably in earnings with workers in other callings. There are also egg farms and market poultry plants that do not have more than one good

year out of three and where the proprietors work on, hoping each season that they will be able to do better.

We do not know of any egg farms or market poultry plants where the proprietors are getting rich out of their profits, but we do know of a good many where—counting good seasons and bad—the proprietors are making a com-

fortable living at healthful work which they enjoy, and earning quite as good a salary working for themselves as they would if they had to work in office, shop or factory. These men—and some women—are hard workers, and they are efficient in both keeping down cost and in selling their product to best advantage.

* * *

After a war the belligerent nations generally arbitrate to settle the differences which started the war. Wouldn't it be a little better and more civilized to arbitrate first? For some time now the national government has been skating on pretty thin ice, and likely to break into the war at any moment. One thing that has helped to keep us out of trouble was the fact that some of our experts did not consider us sufficiently prepared to fight. The story of the world to date proves that there is no surer way to have war than to prepare for it.

Just now a good many people are enthusiastic for preparedness. Later on, when they figure out who is to pay for it all—themselves, their children, grandchildren and great grandchildren—there may not be so much enthusiasm; but we shall know a good deal more about how pork barrels are filled. Governments—not the people—make wars. Wars keep the minds of the people on war and national patriotism and off of their own affairs and community interests. When the people begin to think, or have time to think, it is not so soft a snap to govern them.

But in the days to come, when armless, legless or hopelessly maimed old soldiers and sailors fill our public institutions or sell notions on our street corners, we hope that those who are now so keen for making soldiers and sailors of our young men, will help these shattered defenders of our country with their small change and encouraging support. Too many people turn the cold shoulder on the crippled patriots after the war has become history. We have helped a good many needy veterans to get a beggarly pension and seen many a "boy in blue" of other days dying neglected in the city slums. If we must have and will make fighting men, we should not neglect them when disabled and unfit to struggle with the world for a living.

* * *

Some poultry editors by ranting about misleading advertisements have been misleading readers to believe that the poultry business is the only one in which advertisers make extreme and extravagant claims. As a matter of fact, if one will look over the various magazines and trade journals, he will find that the majority of poultry advertising is pretty clean when compared with general and special advertising in other lines. In a recent bulletin issued by the Automobile Legal Association attention was called to this particular form of exaggeration in the following comment:

"In looking over an automobile trade journal recently, a motorist discovered that by using certain patented devices, enumerated below, he could save gasoline in the percentages which follow:

By using Blank's tire.....20%
By using Blank's car on remover.....25%
By using Blank's carburetor.....40%
By using Blank's gasoline feed.....25%
By using Blank's gas saver.....20%

"We have no doubt that by reading other trade journals, other patented devices could be found that would bring the total up to 200% or more, so that an automobile, instead of consuming, would produce gasoline."

"Peerless-66" is the Most Remarkable Hatcher in the World.—H. M. SHEER

Over 50 Improvements for 1916

FRIENDS, whether you are buying your first machine or figuring on an addition to your equipment—or replacing of old machines, the one hatcher in the world for you is the 1916 Peerless-66. It is pre-eminently the incubator for everybody.

For 1916 I have introduced over 50 improvements. And that, mind you, in a hatcher that had already set a world's record for results. Now, the 1916 Peerless-66, delivered to your home for \$6.60, stands absolutely as the only practical, all-metal, fireproof, everlasting machine produced. It is the only machine of its size with a perfect heating and heat distributing system. It is the only incubator ever produced alike adapted to the largest poultry raiser and beginner as well. Tens of thousands of users have

Proven Peerless Principles Perfect

They have proven that this hatcher, all metal, round like a nest, built on the famous Sheer Unit System, is just the right size to give the greatest efficiency. It is the right size to give the greatest economy. It will last for years. They have proven this by the profits this hatcher has put in their pockets. That's why J. H. of Georgia, reports:

97% Hatches

That's why Mrs. J. D. of Mo. reports 51 chicks from 53 eggs. That's why L. M. F. of Ill. says his poorest hatch was 46 chicks out of 50 eggs, and his best 50 chicks out of 51 eggs, this last record with the new Peerless-66. There are thousands more. Let me send you the names of users to convince you that the Peerless-66 is right in price, results and satisfaction.

\$6.60
East of Rockies
DELIVERED

Heat, Moisture, Ventilation
All Are Perfect

all working together as a self-regulating unit. The machine is equipped throughout with the famous Sheer Fixtures. The wonderful Sheer Water Thermostat Regulator automatically controls heat, regulates moisture and ventilation. Overheating is impossible. The heating plant is a marvel. Simple, positive, unfailing.

Guaranteed

We give the broadest and most liberal honest guarantee ever given on a hatcher. Guaranteed to hatch every hatchable egg.

Hot Air or Hot Water

We supply the PEERLESS-66 with either hot air or hot water heat, as you wish, for 1916 at the same price. Never before has such an offer as this been made. We recommend the hot air however, as absolutely efficient as any hot water machine.

No Freight to Pay The Marvelous Price of the Peerless-66 for 1916 is \$6.60. Delivered anywhere East of the Rocky Mountains. Pacific Coast price, \$7.00, delivered.

Send for Book and Record of Results which tells facts about the Peerless-66 which we have not space for here. Send for it today—free—or better yet, send us your order now.

Peerless Brooders

are as wonderful as Peerless Incubators in efficiency, in economy and in rearing strong chicks. Round like the hatcher, 66-chick capacity, all-metal. Simple heating system, hot water run.

Saves lives of chicks



Actual Capacity,
70 Average
Hen Eggs

ulated automatically the "Sheer" way: lamp outside, instantly accessible, cannot overheat, injury to chicks impossible. A more efficient or economical brooder is impossible. Send for additional facts.

H. M. Sheer Co., 165 Hampshire St., Quincy, Ill.

30 Years Making Better Hatchers.
Globe Grain & Milling Co., Pacific Coast Dist., Los Angeles, Cal.

MINORCAS Giant Strain S. C. BLACKS

Have again proven their superiority at Chicago, Cleveland and Indianapolis. Present day mating list of real Minorcas of the present day winning type. Large, pure white eggs that DO hatch.

JOHN L. BROWN

1515 W. 7th Street

ANDERSON, IND.

Horticulture for Poultry Keepers

Conducted by Thos. F. Rigg, Iowa Falls, Iowa.



I AM writing these lines in my hotel in Miami, Fla. The weather here is delightful. The thermometer registers about 72 each morning at seven o'clock and the whole country hereabouts is looking its best now. The flowers are in free bloom, as are the shrubs. The thousands upon thousands of grape fruit trees hold an abundance of golden fruits. The birds are mating and nesting and all Nature is in a happy mood.

The great market gardens stretch out toward the Everglades. Here are thousands of acres of tomato, pepper and egg plant gardens and it is most interesting to visit these gardens and the packing houses also. The negro pickers sing as they gather the vegetables, and it seems as if it were a gala day on each and every plantation. Just now the prices received for vegetables are high. At one egg plant farm the proprietor told me he had already received \$6,000 and figured he would take \$12,000 off his ten acre place by May 1st. Some of the vegetable growers here make a lot of money, and some of them fail.

The grape fruit growers are getting good prices for their fruit and are happy. The canker which was so prevalent in this section last season has been pretty well stamped out by the government workers, who burned many thousand trees last Fall. Whole orchards were burned to the ground. It was a severe and costly treatment, but the only one which would effectually rid the country of the dread disease.

Fresh eggs are selling at from 60 to 70 cents per dozen. There are but few large flocks of poultry here and several attempts to maintain egg farms in this section have resulted in failures. I am of the opinion that, in time, egg farming will be profitable here. But the northern man who comes down here will find that he must first learn to adjust himself and his hens to a new condition, and one wholly unlike, what he now holds, as good poultry farming.

White Leghorns and Rhode Island Reds are about the only poultry I see here. These two breeds seems to be better adapted to conditions here than are any of the other Standard breeds. Breeders here tell me that the Reds seem to forget all about becoming broody and that many of them here are really non-setters. They do not seem to be subject to the ravages of insects, and in this respect are a most desirable breed. They certainly do adapt themselves more readily to the new order of things than even the sprightly Leghorn.

* * *

I note your very kind offer to write about Florida conditions and wish to avail myself of your offer. I have a residence property in Cody, Wyo., a conservative valuation of which would be \$2,000. It rents for \$20 per month. I wish to trade it for land suitable for fruit and poultry farm. Am not particular about the location, or rather, will accept the location that offers best advantages.

I have an offer of an even trade for twenty acres at Vero, Fla. It is drained but un-

cleared. Has light palmetto and pine. I do not know the name of the promoting company. The agent here assures me that it is a great place to make money on fruit and poultry.

I have another offer of fifty acres in De Soto County, seven miles from Arcadia, which is merely fenced. No other improvements.

I note the advertisement of another company offering what they call fine hog and corn land in the Everglades. Another offering what is called the "Famous Ridge Country."

As I have no proper conception of what Florida is like, and presume that there are plenty of lemons being offered under the guise of citrus lands, almost any information you can give me would be of help in solving my problem.

I might add that I can also get a trade for Southern Indiana hill land, said to be good for fruit, with fair improvements.

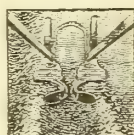
I trust that you may not find this request too much of a nuisance.

Indiana.

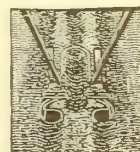
W. S. Jennings.

Grow your own Vegetables

Cut down your living expenses. You'll be astonished how easy it is to save time, labor, and money, and get bigger and better crops when you use



Opening Furrow



Closing Furrow



First Hoeing



Cultivating

Planet Jr Garden Tools

They do twice the work in half the time

They take the drudgery out of garden cultivation and make it pleasant recreation. Thousands of Planet Jr hand tools (seed drills and wheel-hoes) are used in kitchen-gardens as well as in market-gardens, and wherever best and biggest crops are wanted with least work. Fully guaranteed.

No. 11 Planet Jr (shown above in action)—A Double and Single wheel hoe in one. Straddles crops till 20 inches high, then works between rows with one or two wheels. The plows open furrows and cover them. The cultivator teeth work deep or shallow. The hoes are wonderful weed-killers. The rakes do fine cultivation and gather up trash. Unbreakable steel frames. 14-inch steel wheels and specially hardened steels, both new this year. *The greatest hand-cultivating tool made.*

No. 4 Planet Jr Combined Hill and Drill Seeder, Wheel-Hoe, Cultivator and Plow pays for itself in a single season in the family garden as well as in larger acreage. Sows all garden seeds (in drills or hills), plows, opens furrows and covers them, hoes and cultivates easily and thoroughly all through the season. 30 other styles of seeders and wheel-hoes—various prices.

New 72-page Catalog (184 illustrations) free!

Describes over 70 tools, including 12 entirely new ones, and improvements to our Seeders, Wheel Hoes, Horse Hoes, Harrows, Orchard-, Beet- and Pivot-wheel Riding Cultivators. Write for it today!

S L Allen & Co

Box 1107 T

Philadelphia

GOOD SEEDS



**GOOD AS CAN BE GROWN
Prices Below All Others**

I will give a lot of new sorts free with every order I fill. Buy and test. Return if not O. K.—money refunded.

Big Catalog FREE

Over 700 illustrations of vegetables and flowers. Send yours and your neighbors' addresses, **R. H. SHUMWAY, Rockford, Ill.**

**Trees
Shrubs**
15 to 18 in.
Roses
Second Size

Everything needed to beautify your home and garden, direct from Nursery at one price, 10c. One million fruit and ornamental trees (3 to 4 ft.), shrubs and vines, to be sold under guarantee to name, free from disease, or money refunded without question. We can give highest bank references. Illustrated catalogue listing our big variety, and nothing over 10 cents. FREE.

**Ten
Cents
Each**

POMONA NURSERIES, 133 GRANGER AVE., DANVILLE, N. Y.



SAMPLE OUR SEED

Three earliest vegetables in cultivation for 10c. One packet each, Robinson's Earliest Tomato, Earliest Round Red Radish, Earliest Lettuce, 12c to new customers. Regular price 30c. CATALOG FREE, C. N. Robinson & Bro., Dept. 66, Baltimore, Md.

I wish I could make a good trade for Mr. Jennings and place him on a fruit farm that would yield him financial profit and contentment. But I cannot do this. I do not know that I can even wisely advise him. The land at Vero, Fla., is good fruit and vegetable land when cleared and subdued. How little the northern man knows what it means to "make a farm" out of the Florida forest! It means a great deal of work and the expenditure of a great deal of money. Not only that but the northern man finds conditions wholly different from those in the north. He must begin all over again, as it were. Not one northern man in ten succeeds down here upon the farm. There are no local markets here of importance. It is a shipping proposition almost wholly. If a man has sufficient capital, is a good business man, and willing to work very hard he can make money here, as well as elsewhere.

De Sota County is one of the best in the state for the production of grape fruit and oranges. There are many profitable growers there.

I want to advise all my readers to beware of the men and companies offering lands in the Everglades. The northern cities are full of these men and agencies. The Everglades are a great swamp, consisting of several million acres of land covered largely by water. Do not believe the promoters when they tell you that the lands will some day be drained and thus cleared of water. This great swamp is below sea level in many places and can never be made farm land.

If Mr. Jennings wishes to make orcharding his work I advise him to go and look over the land in Indiana. He says this is hill land. If it is the sort of hill land adapted to apple growing, he had far better trade his western land for an orchard site there than to exchange it for Florida land. An apple orchard in Indiana, consisting of the best varieties of apples, will, when properly handled, yield a large annual profit. Such an orchardist is near the best markets in the United States. He is producing something which everybody wants and will buy, something which he does not have to rush to market and sell at the other fellows' offerings. He is engaged in a sane and safe business. Florida is a land full of beauty, and I may say, full of opportunity. Here men are enjoying life and prospering but not to the extent they do in the fertile north. No man who is able to labor—and we all must labor wherever we may locate—need in my opinion, fear the Winters of the north, disagreeable as they are. Up there, as well as here in the land of sunshine and flowers, the great law of compensation is always at work and he who is called upon to bear the inconvenience of the long cold Winters is rewarded, just as he who is given perpetual sunshine and balmy weather must pay the price for it all. Out in my Iowa orchard I have to fight insects and fungus diseases for a few months in the year. Then Winter sets in and does away with all that. Down here the fruit grower must combat the pests 365 days of the year. You see he is paying the price for the lovely weather and his ever present flowers and birds and sunshine. Just as I must pay the price for the service nature renders me in my orcharding by sending weather to clean and purify my trees. And so it goes on, always the law of compensation. We may choose Florida or Iowa or elsewhere, but we must pay the price for all the good things any climate yields.

* * *

Thought I would take advantage of your offer to A. P. J. readers to give them information regarding poultry raising in Florida. With the mercury down to 20 or 30 degrees below zero, a person thinks of a warmer climate in which to raise chickens. Have some land near St. Cloud, in Osceola County. Spent a Winter there several years ago and certainly enjoyed the climate. Had not begun raising poultry then and did not pay particular attention to the matter, but it seems it would be an ideal country for the business, but I know there must be some very serious drawbacks, as I know that Florida does not rank very high in the production of poultry. Wisconsin.

Frank Merrill.

St. Cloud would not, in my judgment, be a favorable location for a poultry plant, as the local market would not be of much importance. My advice to Mr. Merrill is that he had best go to St. Cloud and make a very careful investigation before deciding to establish a poultry plant there. I venture the opinion that after he has made the investigation he will decide not to go into such a deal.

Poultrymen!

**Berries Will Pay
Your Feed Bills**

Plant your waste spaces to Allen's true-to-name berries. People are always willing to pay top prices for them. Allen's plants are hardy, healthy and heavy-bearing. Many varieties adapted to your soil, climate and markets. Packed fresh for shipment. We have over 300 acres in small fruits exclusively. Our 1916 Book of Berries describes each variety, and tells clearly how to select, plant, etc. 48 pages, 12 plates in natural colors. Send for your free copy today.



The W. F. Allen Co.,

**106 Market St.,
Salisbury, Md.**



\$7.25

For twenty years we have been getting ready for the wonderful offer we can make this year. Lower prices on the highest grade incubators and brooders than ever before.

Mankato Incubators are made of genuine California redwood with triple walls, lined with heavy asbestos. Heavy pure copper hot water heating system. Perfect automatic regulator. Correct ventilation. Safety lamp. High nursery. Strong, well-made egg tray. Tested thermometer and egg tester. All extras free. Buy direct from the biggest incubator factory in the Northwest. Thousands of successful users back the Mankato.

SEND YOUR NAME

so that we may send you our big book covering this great offer. Doesn't make any difference when you expect to buy. **Mankato Incubator Co. Box 752, Mankato, Minn.**



Send your name now—it will only take a minute of your time. We will do the rest.

Burpee's Seeds Grow

The Fortieth Anniversary Edition of Burpee's Annual, the Leading American Seed Catalog for 1916, is brighter and better than ever before. It offers the greatest novelty in Sweet Peas, the unique "Fiery Cross", and other novelties in Rare Flowers and Choice Vegetables, some of which cannot be had elsewhere. This book of 182 pages tells all about proved and tested Seeds. It is mailed free. A post card will do. Write today, mention this publication.

W. ATLEE BURPEE & CO., Burpee Buildings, Philadelphia

Hansen's Buttercups

Eggs from first pen, every bird a prize winner, \$5.00 per 15. Eggs from utility pens, every one headed by a prize winner, \$2.00 per 15, \$10 per 100. Write for mating list.

DR. M. A. HANSEN

won at the Coliseum, Greater Chicago and Milwaukee Shows.

OSAGE, IOWA

Your column in December A. P. J. refers to "Alberta peach." Is this a new variety, or is Elberta meant? Am a stickler for correct names of varieties. I dislike to hear Winesaps called "Saps" in local parlance. Virginia. C. A. Langston.

Mr. Langston is correct. I too, dislike to see fruitmen, and especially writers, careless in this handling of the names of established varieties of fruit. I think, perhaps, in the case referred to by Mr. Langston, I was guilty of carelessness. I intended to write it "Elberta." A few years ago an Illinois man brought out a new peach which he named "Alberta," but the people and the trade refused to accept it.

(NOTE—It is very good of Mr. Rigg to shoulder the blame for this error but when we consider the list who come after him in handling his manuscript, we think more than likely one of the following may be to blame: transcriber of notes, editor, printer, proof reader.—Ed.) * * *

Only about one-thirtieth the number of citrus fruit trees that were infected with citrus canker one year ago have been located by the state plant board inspectors this year, ac-



Cockerel heading 1st S. C. White Orpington pen, Chicago, January, 1916. An excellent type. Bred and owned by J. L. Schabell, 3331 Cuyler Ave., Chicago.—E. W.

cording to Chief Inspector Joy Heck, of this district. This flattering news were told the members of the Dade County Fruit Growers and Truckers' Association last night and was received with applause by the large number of growers present.

Inspector Heck's report consisted of a comparative statement of the conditions that existed January 9th, last year, and the report of Saturday and showed a material falling off of canker infections.

January 9th, last year, according to the report, there were but nine inspectors employed against thirty-two men on the pay roll last Saturday night while on the same date last year there were 7,675 trees inspected. The number of trees inspected this year amounted to 63,851. On January 8th, this year, the inspectors found but one infection against twenty-two on the same date a year ago.

While there are three times as many men engaged in hunting canker as there were a year ago, the four weeks ending last Saturday, resulted in the finding of three infections against ninety-two during the corresponding period a year ago or less than one-thirtieth of the amount.—Miami Herald, January 24th, 1916.

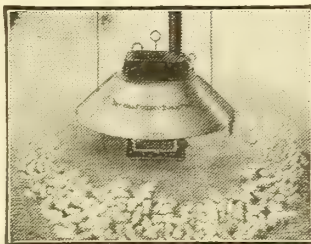
This is a statement of fact that will be welcome news to the numerous northern people who last season invested in citrus groves in this vicinity.

* * *

C. F. M. Smith is doing much to determine what is what in poultry raising in Florida. At his home in Winter Gar-

POULTRY RAISERS, HEAR US!

ARE you satisfied with your chicken business? How many dollars have you to exchange for dead chickens this year? Will you get enough pleasure out of the chicks in a few weeks before they die to pay you for your trouble?



Are you going to keep on hatching chicks for the worms of the earth to feed on? Or, is it time you turned over a new leaf and raised stock which will produce a profit? If so, buy the Hill Colony Brooder, \$30 or the Magic Brooder, \$15. They are absolutely reliable. They have no equal. They are not made like other brooders. They lead the world in construction and efficiency and the fire never goes out. Equipped with both top and bottom draught, coal magazine, gas-proof chamber and the best grate in existence.

If a brooder leaks gas and will not hold the fire it is of no use to you.

BE CAREFUL WHEN SELECTING A BROODER AS YOU ARE DECIDING YOUR OWN FATE.

We will cheerfully refund the money after thirty days trial if they do not do all we claim

IF YOU WISH TO SUCCEED YOU MUST HAVE BROODERS WHICH WILL DO THE WORK, OTHERWISE IT WILL BE IMPOSSIBLE. Write today for booklets describing our brooders. They are full of valuable information which will benefit you. **AGENTS WANTED.**

UNITED BROODER CO., 38-40 BELLEVUE AVE. TRENTON, N. J.

Walker's Barred Rocks

WINNERS AT CHICAGO'S COLISEUM SHOW FOR SIX SUCCESSIVE YEARS

with birds of our breeding. I won December, 1915, 1st exhibition pullet and 2nd pullet mating pen; December, 1914, 1st pullet mating pen and 3rd cockerel mating pen, and many other prizes. Our pens are now mated with my Chicago winners, the greatest matings I ever made. Eggs, \$5.00 per 15, or \$9.00 per 30. Write for mating list. Some good pullet-bred cockerels for sale cheap to close them out.

G. A. WALKER

POLO, ILLINOIS

THE QUALITY STRAIN OF S. C. WHITE LEGHORNS

Fancy-Utility bred. Our pullets gave 50% egg yield Nov. 1st, and are keeping up the good work right thru the cold weather. We guarantee every egg or bird we sell; you take no chance with us. Eggs for hatching from \$1.50 to \$5.00 per 15. Mating list free. J. W. Klein, Kiel, Wis.

Cooke's Black Langshans

Winners at the Largest Shows

Won this year at Milwaukee, 1st and 3rd cockerel, 2nd and 3rd cock, 1st, 3rd and 4th hen, and 1st and 2nd pullet (nine entered, all placed). Many prizes won at Racine, including 1st cockerel and grand champion of the show, all varieties competing. My White Leghorns made a grand win this year at Racine. Sale of Black Langshan Cockerels now on. Prices reasonable. Eggs for hatching, stock for sale. Limited number of pairs, trios and breeding pens at prices to suit in both breeds.

GEO. COOKE

Route No. 1

RACINE, WIS.

Merrell's Columbian Wyandottes

Chicago winners, 1916. Showed 4 birds at Beloit, Wis., with an average score of 92.3-16; Rountree, Judge. Eggs from pens made up of winning birds. Stock for sale. Seven years' experience breeding Columbians. Prices right, satisfaction guaranteed. Arthur Merrell, Solon Mills, Ill.

MEADOWLAWN PARTRIDGE ROCKS

Eggs from our winners at Chicago Coliseum, Michigan State Fair and elsewhere, are now ready. We bred and raised all our prize birds. Eggs, \$7.50 per 100; \$3, \$5, \$7.50 per 15. Stock, Chks., \$5.00 to \$20.00. Pullets, \$3.00 to \$15.00. Send for our 1916 Announcement.

MEADOWLAWN POULTRY YARDS

Dept. C. D.

SAND CREEK, MICHIGAN

No Sunday Business

DAY-OLD CHICKS and HATCHING EGGS

From standard bred, free range flocks of Barred, White, Buff Rocks—Silver, White, Buff Wyandottes—S. C. Rhode Island Reds—S. C. White Leghorns—Silver Campines. Will have 3000 chicks for sale, and ship only strong, vigorous, healthy chicks that will mature true to variety. Write for Prices.

PLAINFIELD HATCHERY

Box B

PLAINFIELD, ILLINOIS

AMERICAN DOMINIKES

America's Oldest Fowl won at Old Glory Show, Boston, 1916. 2d and 4th cock, 1st and 2d hen, 1-2-3 cockerel, 1-2-4 pullet. Write for prices on stock and eggs.

C. W. BESSE

JEFFERSON, MAINE

SUSSEX FOWL—ALL VARIETIES

Strain started in 1907. Eggs for setting now ready. E. K. Conrad, S. X. St., Hackensack, N. J.

Read the announcement of "A Revolution in Egg Production" on page 449.



Make Your Waste Acres Produce

Clear that idle land. Remove the stumps and boulders. Straighten the crooked creeks. Improve your soil. Increase your crops and the value of your farm. Remove the handicaps that hinder your work and profits.



Red Cross Farm Powder

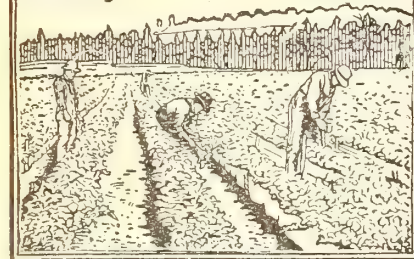
will help you clear land quickly, easily and cheaply. Get those unproductive acres in working order now and crop them early this spring. Thousands of farmers everywhere have found Red Cross Farm Powder a wonderful help.

Big Book Free

contains 188 pages of interesting facts. Explains the use of Red Cross Farm Powder for land clearing, subsoiling, ditching, tree planting and many other things, and tells how this modern farm help has solved for other farmers the very problems that perhaps now bother you. Write today for

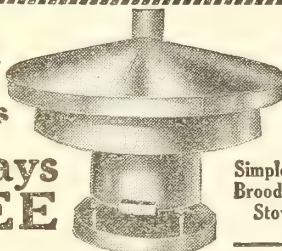
Hand Book of Explosives No. 527 F.

E. I. Du Pont De Nemours & Co.
Wilmington Delaware



Brood Your Chicks

30 Days FREE



Simplex Brooder Stove

Use this wonderful new Simplex Brooder Stove on your own hatch for 30 days, free. Raise 20 to 50 percent more chicks at 1-5 the cost, 1-4 the operating expense, 1-10 the work. Small and large broods. Return it and get your money back if not delighted. Write Today for free brooder book and catalog. Tells how to avoid losses and increase profits from poultry. Also details of free trial offer. Send now. Simplex Brooder Stove Co., Dept. 3813, Grand Rapids, Mich.

den he has a very complete fancier's plant, to which the editor of the Times thus refers:

C. F. Mather Smith, of Oakland, took us up to see his pens of poultry Tuesday afternoon, and the home place and poultry yards are certainly show places. Among his birds are the Royal Sussex, from Crystal Palace, London, which were the winners of the first prize last Spring; Speckled Sussex, first prize, same; Light Sussex, imported by C. A. Case, of Michigan; White Cornish, first prize winners at Boston; Dark Cornish from T. D. Moore, of Kentucky; White Langshans; Buff Cochin Bantams; Sicilian Buttercups; Du Maresque importation; Red Carneux (Belgian) pigeons, and Ideal white pigeons. He has two birds, a cockerel and a hen, that are valued at \$50 each, and all of his stock is of the highest strain. If you have never seen Mr. Smith's birds it is well worth a visit.

* * *

I am giving a number of my Miami friends a treat by presenting them with Delicious, Grimes Golden and King David apples raised on my trees in Iowa. These people who cannot raise an apple are delighted, and highly prize my offering. And I notice that the northern people who are at the hotel are exceedingly pleased to get a few of the beauties. The apple is surely the King of



First prize Barred Rock pullet, Illinois State Fair, 1915. Also won first at the World's Fair, San Francisco, Cal., 1915. Unquestionably one of the best Rock pullets shown to date. Bred and owned by S. N. Tremper, Lock Box 729, Sandwich, Ill.—F. D. R.

Fruits. Paradise would be a barren place for me if I could not raise apples there.

* * *

Practically all men who have only a "backyard" fruit garden, grow things for the family use and for the extreme satisfaction of "just growing things," but where these are combined with a splendid financial profit, the height of interest has about been reached. This exactly fits the case of Dr. T. G. Hetherlin, of Missouri, who has a fruit garden in the rear of his residence of which he is justly proud. It is surprising how the returns from a few choice, high quality fruit trees will count up. He has only seven trees and a small grape arbor. Of course he takes good care of them. Some pruning and spraying and a few dollars invested in a hand sprayer. The Doctor says that the returns from this planting, not including 315 bunches of celery, was as follows last season:

Keep a Record of your eggs

1916 Egg Record and Calendar Beautifully Colored FREE

Just send your name—a postal will do—but be sure to send it N-O-W.

Every poultry raiser should have a copy of this beautiful and useful Monthly Calendar and Daily Egg Record. Designed by a famous poultry artist, printed on special paper in FULL COLORS and is ABSOLUTELY FREE. Nothing else like it. The supply is limited, but if you write TODAY you can have a copy. We want to send it to you so that it will serve as a daily reminder to feed your chickens.

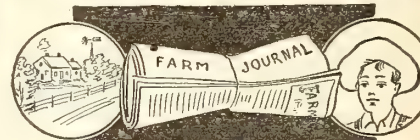
Dickinson's Globe Feeds

You ought to know all about them. They're the profit-making kinds for you. Scientifically blended from pure, sweet, thoroughly cleaned grains, "GLOBE" Poultry Feeds go farther and nourish more than ordinary feeds. Besides, these perfectly balanced rations are cheaper than if you bought the grains and mixed them yourself.

Look up the "GLOBE" Poultry Feed Dealer in your town. If you don't know who he is, write us and we'll tell you.

The Albert Dickinson Company
Poultry Feed Division F
Chicago, Illinois

100 LBS. DICKINSON'S GLOBE FEED MASH
THE ALBERT DICKINSON CO. CHICAGO, ILL.
GET WINTER EGGS



"THE TIE THAT BINDS"

The best loved farm family paper always sold only on approval

Nearly a million steadfast friends, who could get their money back any time, but prefer to keep on getting the Farm Journal, prove that it is indeed "unlike any other paper." You're missing the one farm family paper if you're not one of Our Folks. \$1 for 5 years. If you're anxious to be happier, send today for free sample of Farm Journal and free copy of Poor Richard Almanac for 1916.

The Farm Journal

169 Washington Square, Philadelphia

Increase your egg production 100%.
Learn how on page 449.



Chicks The Kind You Want

GOOD, STURDY,
PURE BLOOD STOCK

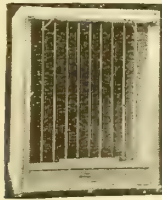
We have some fine show birds, a number of bred-to-lay yards, and many carefully culled utility flocks.

S. C. Brown, White and Buff Leghorns, Barred and White Rocks, Buttercups, R. C. and S. C. R. I. Reds, Wh. Wyandottes, Buff and Wh. Orpingtons.

Write for Catalog. IT IS FREE.

It is our aim to do the right thing at the right time in the right way. Give us a trial. You will come back to us.

TIFFIN POULTRY FARMS AND HATCHERY
Dept. A TIFFIN, OHIO



TRAP-NESTS SHIPPING COOPS

Warner's way for Lice, etc.

Send for catalog for
Poultry Supplies to

WARNER, "The Coopman"
Allegan, Mich.
P. S. Specially constructed coops of
any size. Write your wants.

Live Agents Wanted

to sell our well known line of Poultry Supplies
in every community where we have no dealers.
Liberal commission paid. Write for proposition.

OTIS & MOE MFG. CO.

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White Houdans

The great combination utility and
beauty breed. Prolific layers of
very large white eggs. Unsurpassed
as table fowls. Very hardy and
adapted to any climate.

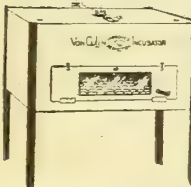
Eggs for Hatching

M. L. Starks, Dept. A, Starks, Wis.

PERRY'S ROSE COMB White Leghorns

won Best Display at the National Meeting of the
Club—Rochester, January, 1916. Bred 14 years for
Eggs and Beauty, and they make good in cus-
tomers' hands. Eggs from our best—\$2.00 per 15;
\$1.00 per 100. Second best—\$1.25 per 15. Grand Cocks,
Hens, Cockerels and Pullets, at extremely low
prices. Free Circular.

Louis H. Perry Route 8 Clay, N. Y.



Von Culin Incubator

The oldest make on the market.
The latest up-to-date incubator.
Made of sheet metal. Double and
packed walls. Light and compact.
Equipped with Von Culin Fireproof
Lamp. Thermometer slides thru
door. Price to compete with in-
ferior makes. Catalog No. 15 free.

BEACH & BARNARD, Mfrs.
126 Liberty St., New York, City

Almendinger's Rose Comb Wht. Leghorns

Won at Buffalo, the past 5 yrs., 4 firsts and 3 seconds
on cks., 3 firsts and 3 seconds on pils., and all firsts
on hens. Choice birds, or eggs for hatching.

A. F. ALMENDINGER, 61 Inwood Place, Buffalo, New York

GOLDEN WYANDOTTES

No eggs or baby chicks. Winners at World's Fair,
1915. Will sell choice breeding females at 2 for \$5.00.
A few fine male birds for sale.

J. S. Pennington Box A Plainfield, Ill.

Use HANDYSIDE'S DIARRHEA and CHOLERA CURE

It's nature's own remedy. It has been tested on over
200 bad cases, and has yet to fail to cure. Large box,
to cure 80 bad cases, \$1.00; small box, 50c; sample
free. A satisfactory cure guaranteed.

J. R. HANDYSIDE Litchfield, Ohio

- | | |
|--|---------|
| 1 Stark Delicious apple tree, 7 years old, 3 3/4 bushels No. 1 apples at \$2.. | \$ 7.50 |
| 1 King David apple tree, 8 years old, 4 bushels at \$1.75..... | 7.00 |
| 1 Grimes Golden apple tree, 4 1/2 bushels at \$1.75..... | 7.88 |
| 1 Missouri Pippin apple tree, 20 years old, 15 1/2 bushels at 75c..... | 11.63 |
| 1 Gold plum tree, 6 years old, 9 bushels at \$2..... | 18.00 |
| 1 Montmorency Stark cherry tree, 8 years old, 20 gallons at 25c..... | 5.00 |
| 1 Peach tree, 5 years old (light crop) 3 pecks at 35c..... | 1.05 |
| 1 grape arbor, 15 pecks at 60c..... | 9.00 |

Total \$67.06

I wish I could do something to awaken an interest in this backyard tree planting, for such a planting should be made by every home owner. Resolve to plant a few fruit trees next Spring—and then do it! You owe it to yourself and your family and to the community to do so.

* * *

As a reader of your valuable department in A. P. J. and an old resident of Chicago, now gone South to "Ole Virginny" to raise poultry and a little fruit away from the whirl, I beg for some advice.

On account of necessity for shade, I had figured on planting some fruit trees, apples, peaches, pears, etc., in the chicken runs. In order to keep down the parasites, incident to trees, it will of course be necessary to spray them and make the fruit of good quality.

What bothers me is, will the spraying be harmful to the poultry. If so I shall have to plant other trees for shade.

Harry C. Martin.

Occasionally I hear of a case where fowls have been killed by eating grass in yards and archards where arsenate of lead and other poison spray materials have been used. Therefore I take it that there is some danger from its use on trees in the poultry yard. Personally I have had no such trouble. For years I had some poultry runs 24x132 ft. quite closely planted to cherry, apple and plum trees. These trees were sprayed twice each season with arsenate of lead, a poison. I have seen the grass on these runs white with the arsenate of lead after a spraying of the trees, yet the poultry was not affected, and certainly they ate of the grass at will. Have had the same experience in the orchard. I do not hesitate to use this spray freely where the poultry has the run of the yards. I can say, therefore, that in all probability Mr. Martin will have no trouble in using this spray material.

* * *

In answer to P. C. Crowley, of Wisconsin: I think you will make no mistake in planting your proposed orchard to Wealthy and McIntosh Red. They are both early apples and must be placed on the market soon after picking unless you have cold storage facilities.

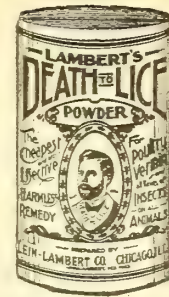
* * *

I am much interested in your department and it is the first one I read in American Poultry Journal. Some eight miles from here is an old apple orchard, of which some few trees of the "Dominie" variety are still alive, which is, to my notion, one of the best of the older sorts.

In the nineteenth annual report of the Ohio State Board of Agriculture for the year 1864, from fifteen reports of Ohio apple growers on "The best six or twelve varieties of Winter apples for market." Fallawater (Tulpehocken) leads the list, followed by Baldwin, White Pippin, Rhode Island Greening, etc., some fifty varieties being named in all.

There is also published in the report a "Fruit Catalog for Ohio," which contains 115 varieties of apple, 69 varieties of pear and 35 varieties of peach.

The Dominie is one of the old sorts which are highly prized by so many people who were accustomed to eating these fruits in their youth. It is a fairly



Coupon for Big Trial Size

Klein-Lambert Co.,
460 Traders Bldg.,
Chicago, Ill.

Dear Sirs:
Please find enclosed ten cents (10c) for which send me Big Trial Size of "Death-to-Lice," as advertised in AMERICAN POULTRY JOURNAL.

Name _____
Address _____
City _____ State _____

Makes 'Em Turn up Their Toes Mighty Quick

There isn't a ghost of a show for lice and mites on hens, chicks or nests after a dust with the old reliable Lambert's Death to Lice. It knocks 'em stiff in a jiff. As one of the big successful poultrymen wrote us, "It is impossible to get along without your louse killer," so it is with every user. There's nothing so efficient.

Don't Experiment

Follow the example of the leaders—ask any successful poultryman which lice killer has been the standard for 30 years—which is acknowledged BEST. He will tell you to

Get Lambert's

OLD
RELIABLE
**DEATH
TO
LICE**



because he
has found
it *always*
the BEST.

Don't expect to make your hens pay and permit lice to worry and annoy them. The lice will get the profit and often the hens and chicks, too. A few cents invested in Death to Lice will bring dollars in profit. Just the thing for layers, sitters, and exhibition stock. Will not injure eggs, chicks or hens or soil plumage. Get a 5 oz., 10c box at dealers to try (or send to us direct if he can't supply you). Other sizes 25c, 50c and \$1.00. Lambert's Latest copy of "POCKET BOOK OF POINTERS," a valuable book for poultry raisers. Mailed for 2c stamp.

KLEIN-LAMBERT CO.
601 TRADERS BLDG. CHICAGO



(Standardized)

DISINFECTANT. INSECTICIDE. GERMICIDE.

Kills lice and mites.

For treating all of the common diseases of poultry.

Prevents the spread of contagious diseases among poultry.

Kreso Dip No. 1 and a little effort will keep your poultry clean and healthy and increase your profits.

INEXPENSIVE. DEPENDABLE. EASY TO USE.

Will not harm poultry when used as directed.

For sale by all druggists.

We have a special FREE booklet on Diseases of Poultry. Write for one.

PARKE, DAVIS & COMPANYDepartment of Animal Industry,
DETROIT, MICH.

"There's Money in Hens"
when they are fed
Swift's Meat Scraps

Experiment Stations have proved that Laying Hens must have meat. Swift's Meat Scraps are fresh meat dried, ground and handled in the most sanitary manner. Made from animals Inspected by U. S.

Government Officials, therefore clean, pure and healthful. They make hens lay. For Free Sample and prices address

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Kansas City, Kas. So. Omaha, Neb. So. St. Joseph, Mo.
So. St. Paul, Minn. Denver, Colo. Fort Worth, Texas
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Harrison Station, Newark, N. J.

LOUSY CHICKENS Won't Lay

Therefore paint your poultry house once a year with

Avenarius Carbolineum
and protect your chickens against mites.

Write for Bulletin 33

CARBOLINEUM WOOD PRESERVING CO.
Dept. 50 Milwaukee, Wis.

good apple but has been supplanted by superior sorts which the buying public consider better.

* * *

In answer to H. P. Porter, Indiana: White Pippin, synonym of Ortley, an old New Jersey variety, which Cox describes under the name of Woolman's Long Pippin. In 1825 Floyd sent fruit of it to the Royal Horticultural Society of London, under the name of Ortley. In portions of the West and South, Ortley is a favorite for home planting. Also known as White Bellflower and White Detroit. Is also synonym of Canada Pippin. Warden says its origin is unknown. It is claimed by some authorities that it was brought West by Silas Wharton. For some time leading pomologists claimed it was the Canada Rienette, but that claim was given up long ago. It is not extensively planted in any of the orchard districts of this country or Canada.

* * *

The tomato growers of Florida are hit hard by the scarcity of potash. It requires a fertilizer carrying not less than 6 per cent potash to mature the tomato here so that it will carry to the northern markets in good condition. At present the growers cannot buy more than a 2 per cent mixture. As a consequence many of the largest growers here have not planted a vine this season. Dr. N. W. Burkhardt, of Cincinnati, who usually has in 300 acres of this vegetable, is working no ground this season, letting his land go back to the native grass.

* * *

James L. Keen, one of the most extensive and most successful strawberry growers on Long Island, N. Y., is here for the winter. Mr. Keen and the writer are having a lot of fun in visiting the big strawberry ranches hereabouts. "I cannot get 50 cents a box as the growers here are doing at present, but I am satisfied that northern growers find the production of their berries more profitable than do the men who are raising them here," said Mr. Keen, who gets from 20 to 30 cents a box for his extra choice berries and does not have to pay out so much money for fertilizers as the Southern growers do. Nor does he have to pay high transportation charges. Another instance where the law of compensation is at work.

* * *

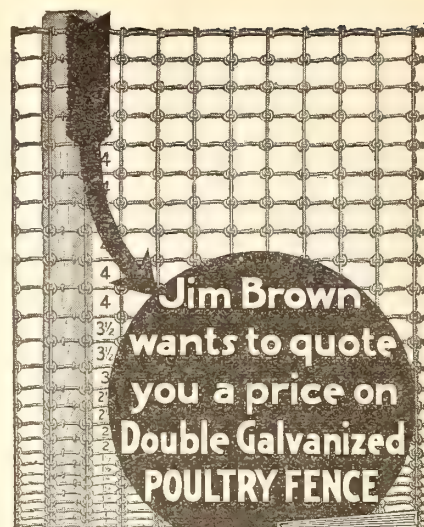
Three years ago an agent of a California firm was here selling the farmers roots of the spineless cactus. It was to "supply the cattle and hogs and poultry with a better feed than grass or hay." As grass and hay are about as scarce as hen's teeth, the farmers bit eagerly, and the agent did a big business. It would not be well for that agent to show up here now. The cactus was a failure—a total failure—just as it has proved to be wherever grown. I wonder what the next "great find" this California firm will spring on the farmer?

* * *

Northern fruit trees, especially apple trees, should be sprayed this month with either scalecide or lime sulphur mixture. This dormant spray is a great benefit. It will rid the tree of all scale and clean it up in good shape. No grower can afford to neglect to so treat his trees this month.

* * *

When I left home my apple trees were full of fruit buds. Since leaving the thermometer there has registered 24



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wants to quote
you a price on
Double Galvanized
POULTRY FENCE

DIRECT FROM
FACTORY TO YOU
FREIGHT PREPAID

FREE
BROWN'S
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Just write me a postal.

I want to send you my grand, big, new fence catalog—free. Let me tell you the finest story of high quality and low prices you ever read. Let me show you why more than 400,000 men have bought over 25,000,000 rods of Brown Fence! Let me tell you how to test Brown Fence or any other fence before you buy—so you can tell which fence is best galvanized and which will last longest.

Write Me a Postal Now
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Brown fence is Double Galvanized. Poultry and Garden Fences have No. 10 top wires; bottom wires spaced only 1 inch apart. Cheaper than ordinary netting—lasts 5 times as long. 150 fence styles, all prices, all freight prepaid. I'll save you money. Just send me your name on a postal. Address Jim Brown, President.



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HARRIS HOME No. 61

\$583 BUYS THE MATERIAL
TO BUILD THIS HOUSE

Clear and knotless lumber and millwork in all exposed places. Creosoted foundation wall plates, galvanized guttering and down spouting; exquisite hardware. All materials in perfect harmony with the design. Complete building plans and expert architectural service included.

Sensibly Cut-To-Fit THE HARRIS WAY

The Harris Way is the most economical and perfect of all cut-to-fit building methods. It is original with us. Better, simpler and different from others. It saves you hundreds of dollars on the cost of your home. See convincing proof of these claims in our free Book of Plans.

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Materials are shipped all at once from Chicago. Quick shipments. You risk nothing. All our liberal terms and guarantees are explained in our Book of Plans.

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Send for our Book of Plans No. AB 8 today. It shows over a hundred Harris homes, barns, garages, etc., in beautiful half-tone engravings. Explains everything in detail, gives prices, floor plans, etc. Mailed FREE.

HARRIS BROTHERS COMPANY
35th and Iron Sts. CHICAGO

degrees below zero. A letter received this morning tells me that a rain and sleet storm was on for twelve hours, followed by a drop in the temperature to 14 degrees below zero. Pretty severe test for several varieties of apples and pears upon my place. But if any are killed I shall have the fun of replanting. I always plant two trees for every one I have to dig out. So you see I am bound to win out at this game.

* * *

While in bathing on the ocean beach yesterday I met Henry A. Caldwell, of Virginia. The waves were pretty high, and we were both resting, with a hold on the guard rope when I overheard him ask a young man if "The box of apples came this morning?" It was not long until we were talking fruit and having a royal good time comparing notes. Mr. Caldwell was engaged in apple and peach growing in Colorado for a number of years. He lost many crops by late frosts, and decided to sell out and remove to Virginia. He is planting a 100-acre orchard of apples in Bedford County on the mountain side, where the air drainage is so good that late frost cannot possibly injure a crop. He is planting largely to Stayman Winesap.

* * *

In answer to O. L. Harris, of Ohio: I think you will make a serious mistake in planting McIntosh Red on the Ohio River hill land. Put in Rome Beauty as a leader. Think you better specialize on this variety.

* * *

Still the calls for information as to where the "good apples I used to eat when a boy" can be found continue to come to me. I am asked to tell where stock or scions of the following sorts can be secured. Milton, Wisconsin. Early Winter, Red King and Early Bright. I cannot give the information as I have never heard of any of these sorts. Can any of my readers locate any trees of these varieties?

* * *

Go over every fruit tree on your place this month and see just what each needs in the way of pruning and re-pairing. The bearing trees should be pruned now if you have neglected this work. The young trees, those set out last year or the year before, in fact, all the trees not yet in bearing, should not be pruned until just before growth starts in April. This is a very important matter with the management of a young orchard.

* * *

Frank C. Stockton, of Michigan, is setting out twelve acres to black currants. He writes me that each season this fruit sells in the Chicago market for double the price paid for red currants. I think the Stockton planting will be the largest black currant field in the whole country.

Ideal Aluminum



LEG BANDS for POULTRY and PIGEONS are the acknowledged leader. Finest and most secure lock. **GUARANTEED** to stay on. Price, postpaid, 12 for 15c; 25-20c; 50-35c; 100-60c; 175-\$1.00; 200-\$1.10; 500-\$2.50. Price list and sample 2c.

COLOR KEY RING LEG BANDS 12-15c; 25-30c; 50-50c; 100-70c. 250-\$1.70; 500-\$3.25. postpaid.

FRANK MYERS BOX 40 FREEPORT, ILL.



BLUM'S PURE BRED Day-Old CHICKS

We have five varieties all hatched in Candee Mammoth machines. We have 10,000 eggs per hatch. Our equipment is so automatically arranged that we can sell you the chicks at the following low prices. Single Comb White Leghorns and Barred Plymouth Rocks our Specialty.



FRANK BLUM

	Per 25	Per 50	Per 100
Barred Ply. Rocks...	\$3.00	\$5.50	\$11.00
S. C. W. Leghorns...	2.75	5.00	10.00
S. C. Brown Leghorns	2.50	5.00	10.00
Broiler Chicks.....	2.00	4.00	8.00
R. C. Brown Leghorns	2.50	5.00	10.00

Chicks all hatched from the very best free range utility stock. Satisfaction guaranteed. Will also have a few Barred Rocks and S. C. White Leghorn chicks to offer from fine exhibition matings. Also have eggs for hatching and a full line of colony brooders. Will be ready to ship chicks after March 6th. Get your orders booked now. Catalog and price list free. Mention A. P. J.

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NEW WASHINGTON, O.

LONGFIELD R. C. REDS

Are again victorious at the great
Chicago Coliseum Show
Winning, December, 1915

3 FIRST PREMIUMS



and many specials. Our complete awards were: 1st cock, 1st old pen, 1st and 5th young pens, 2nd and 4th hens, 2nd pullet, silver cup for best display, silver cup for 4 best cocks, silver cup for 4 best hens, silver cup for 4 best pullets and shape and color specials on male.

We were the only Rose Comb Red exhibitor winning more than one first premium. We have won best display three successive years—a record. Our First and Champion Cock of 1914 was again 1st in 1915, winning shape and color specials both years—another record. At this great show the past five seasons we have won more than four times as many first premiums as any competitor.

We have a fine lot of stock for sale in both good breeding and exhibition birds—on approval always. Write for free illustrated mating list. Fertility guarantee 100%.

LONGFIELD POULTRY FARM
Box 321 Bluffton, Indiana

Spangled Wyandottes

The newest variety of the ever-popular Wyandottes. This is the coming breed. They have the merit to make them one of our most popular breeds within a short time. Start right by getting a string of blue ribbons now while winning is easy. They won at Panama Exposition and Chicago, 7 firsts and 2 championship ribbons in 8 entries. Eggs for sale. Also some fine pairs and trios.

L. COOK, Originator

OAKVILLE, IOWA

WHITE WYANDOTTES

We won at Bridgeton, N. J., November, 1915, 1st and 3d cock, 1st and 3d hen, 1st and 4th cockerel, 1st and 2d pullet, and 2d pen, two large silver cups for best display of Wyandottes. Also Philadelphia, Baltimore and Pittsburgh winners. Our birds are big winter layers, with records of 200 eggs and over: free range stock in the finest condition.

Eggs from all pens, including all of our Philadelphia and Bridgeton winners, \$2 per 15, \$5 per 50, and \$8 per 100. Chicks from the same pens, \$5 per 25, \$9 per 50, and \$18 per 100. A good hatch and safe arrival of chicks guaranteed. Send for free catalog.

CARR BROTHERS CELTIC POULTRY FARM

Box R.

VINELAND, N. J.

BABY CHICKS

from Morse's White Leghorns assure good luck. They live and lay. Selected hatching eggs, 187 eggs per hen last season in flocks of 1000 each. Our birds won wherever shown. Free illustrated catalog describing plant and stock; giving egg and show records, and information for beginners.

RUFUS MORSE

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Taylor's Wh. Wyandottes

es. Order your Eggs and Baby Chicks from our grand matings.

GEO. TAYLOR, R. R. No. 11, Box 30. URBANA, ILLINOIS.

We have some fine MALES and FEMALES left for sale at very reasonable prices.



FRANK McGRANN
Prop. Whatglen Farm

Black Minorcas As I Know Them

by Frank McGrann
WHATGLEN FARM
LANGASTER, PA.



HIRAM J. DEMMY
Superintendent

I HAVE often been asked in letters from people contemplating going in the poultry business, why I recommend Black Minorcas. As I have bred Black Minorcas so long and know their good points thoroly, naturally I do not hesitate to recommend them in the highest terms to anyone desiring to go into the poultry business for pleasure or profit. Keeping poultry for pleasure or profit has its interesting features for old and young alike. There is no other industry or profession that combines greater opportunities from which to derive pleasure and profit than this safe and sane occupation.

Poultry work in itself is very interesting. It is out of door work, healthful, and as a profit producing business adapts itself very readily to the finances, ability and capacity of everyone.

Of course, to derive a certain amount of pleasure and profit, the strain of fowls has something to do with it. I, for instance, like the Minorca better than any breed I know of. I have tried them for years and have not once found them wanting. The S. C. Black Minorca is one of the oldest and best known varieties of standard-bred poultry. While the history and origin is not known as well as some of the more modern varieties, it does not matter, as it has no special importance. After the American fanciers care for them there is ever present a modern high quality condition which has been attained only after years of careful intelligent line breeding, and the results that have been produced in this breed are most satisfactory. There is no breed that breeds more true to type and color than the Black Minorca. They are strong and vigorous by nature and the size which we have attained at Whatglen Farm is greater than ever and by careful selection we have produced an excellent laying strain.

We have Black Minorcas on our farm weighing 10 to 12 pounds or more; females weighing as high as 9 and 10 pounds. The standard for Black Minorcas calls for weights as follows: Cocks, 9 pounds; cockerels, 7½ pounds; hens, 7½ pounds, and pullets, 6½ pounds. These weights are most easily attained by the Black Minorcas and I believe quicker than by any other variety.

S. C. Black Minorcas lay absolutely pure white eggs of the largest size produced by any known variety of fowls and are easy winners in competition with eggs of other breeds. Minorcas are consistent layers, mature quickly and begin to lay as early as any variety, and when they begin, they produce these large eggs in a perfect rhythm thru all seasons and under all conditions.

Our birds are all kept in open air front houses and the vigorous constitu-

OUR COLOR PLATE.

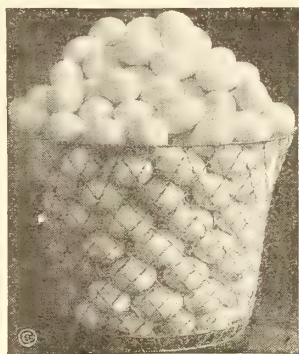
Actual photographs of S. C. Black Minorca 1st prize winners at the Madison Square Garden Show, bred and owned by Frank McGrann, Lancaster, Pa.

The remarkable display of S. C. Black Minorcas at the great Madison Square Garden Show this year was due to the energetic efforts of the members of the American Black Minorca Club, of which Mr. McGrann is president. It was the first time in several years that this club met at the Garden Show and the finest quality of birds that have ever been exhibited were on display.

We have handled a great number of Black Minorcas during the last ten years, but when we say that in all this time we have never handled better birds than those in the accompanying color illustration, we mean just what we say. We have often visited Whatglen Farm of Lancaster, Pa., and the remarkable quality of the birds bred on this farm which we have seen there on each of our visits has caused us to be an admirer of this particular strain.

The fine type of the birds and the great uniformity which runs thruout the whole big flock shows what careful selection and successful mating can produce in a painstaking fancier's hands, and as our color plate is made from actual photographs and not from a made-to-order painting, further comments are unnecessary, as the picture speaks for itself.

L. A. STAHLER, Artist.
American Poultry Journal Pub. Co.



tions in which they can be found at all times we attribute directly to this method of housing.

Black Minorcas will stand the variation of the climate far better than many other Mediterranean breeds. They will do as well in the extreme south as they will way up north where the temperature reaches 20° or 30° below zero. We have very little trouble on our farm with frosted combs, even tho our birds are kept in open air and well ventilated houses.

On a farm, Minorcas do not need to be restrained, while for city or back yard poultry keeping they will be found a great deal tamer than Leghorns or other breeds belonging to the same class. No breed of poultry, single specimens or whole flocks, surpass the Minorca from the standpoint of beauty or utility.

Above all, take the carcass of the Minorca. You have something when you kill one of these birds. It is not necessary to kill a whole flock to make a meal for a good sized family. There is another thing which many people may not have noticed. I defy you to find a closer grained, better tasting meat than that of the Black Minorca. Take a good sized Minorca cockerel and fatten him up for two or three weeks and he will make a meal that will satisfy the most fastidious epicurist.

Another thing which I claim for Black Minorcas is this: The majority of breeds before the public now will have to be double mated in order to produce choice specimens of each sex, which is not necessary with the Minorcas. They breed true to type and true to color from each mating. Of course, attention must be paid to the breeding line and the strain, otherwise the best will deteriorate. By proper selection and observation of variations that occur in a flock one can almost produce anything or get any improvement desired in this breed and as the Minorca is a thoroughbred in reality and not simply a made-up variety like many other newer breeds, it stands to reason, therefore, that a larger percentage of uniform colored and shaped birds will result from a mating than can be obtained from any other breed.

Minorcas are popular the world over. They are bred very extensively in England and some of the best specimens in the United States have been exported to Germany, Africa and many foreign countries where the demand for them is increasing from year to year on account of their all around good qualities. Summing it all up, I say to you, get S. C. Black Minorcas and you will be satisfied with your selection. They will pay their way whether they are kept on the farm or city back lot.

Whitelyden Farm Lancaster, Pa.



S. C. BLACK MINORCAS
WINNERS OF FIRST PRIZE COCKEREL, HEN, PULLET
NADISON SQUARE GARDEN 1914.

Questions and Answers

Conducted by
Prince T. Woods, M. D.

Breeding Related Stock.

Q. I have a trio of thorobred adult fowls that are supposed to be mated for best results. Am told that I cannot hope to breed fancy quality unless I inbreed and understand that to inbreed right, one must do it carefully. I have prepared a table showing proposed breeding for the next five years, assuming that each adult mating may be expected, barring accidents, to yield good chicks for at least three seasons. What I want to know is if my plan is practical, will it work? Or, will I have to go outside the original trio to get "new blood"? If so, what would be the best way to introduce new blood? What will I have to guard against if I follow this plan of mating and breeding? I intend to trap nest all breeders and keep a record of both sire and dam. All chicks will be toe marked and will be banded,—each group having a letter that will indicate the parentage and the year of hatch. For convenience shall use only add numbers on males and even numbers on females, so that at a glance I will know sex when referring to any record. Of course chicks will only get a letter on band until I can determine sex.

What per cent "blood" does the chick take from sire and dam? Can you figure in percentages of blood or not? That is, would you say that a chick represented one-half the blood of each parent?

There is so much confiction of opinions concerning the evils and the benefits of inbreeding that I would like to have you state what the dangers really are and if it is true that one must inbreed to get quality and uniformity. Here is the table:

TABLE SHOWING BREEDING OF RELATED STOCK.—FAMILY GROUPS IN FIVE YEARS FROM A SINGLE TRIO.

1916	1917	1918	1919	1920	1921
Original Trio—					
Cock, 1	.....	.....	.....	.....	.....
Hens, 2 & 4	.....	.....	.....	.....	.....
Chicks..... A	B	C	.....	.....	.....
Old and Young	Ck. 1	.....	.....	.....	.....
	A 6	.....	.....	.....	.....
Chicks..... D	E	F	.....	.....	.....
	A 3	.....	.....	.....	.....
	Hn. 4	.....	.....	.....	.....
Chicks..... G	H	I	.....	.....	.....
Bro. and Sr.	A 5	.....	.....	.....	.....
	A 8	.....	.....	.....	.....
Chicks..... J	K	L	.....	.....	.....
Bro. and Sr.	B 7	.....	.....	.....	.....
	B 10	.....	.....	.....	.....
Chicks..... M	N	O	.....	.....	.....
Bro. and Sr.	D 9	.....	.....	.....	.....
	D 12	.....	.....	.....	.....
Chicks..... P	Q	R	.....	.....	.....
Bro. and Sr.	G 11	.....	.....	.....	.....
	G 14	.....	.....	.....	.....
Chicks..... S	T	U	.....	.....	.....
Bro. and Sr.	C 13	.....	.....	.....	.....
	C 16	.....	.....	.....	.....
Chicks..... V	W	.....	.....	.....	.....
Bro. and Sr.	E 15	.....	.....	.....	.....
	E 18	.....	.....	.....	.....
Chicks..... X	Y	.....	.....	.....	.....
Bro. and Sr.	H 17	.....	.....	.....	.....
	H 20	.....	.....	.....	.....
Chicks..... Z	a	.....	.....	.....	.....
Bro. and Sr.	J 19	.....	.....	.....	.....
	J 22	.....	.....	.....	.....
Chicks..... b	c	.....	.....	.....	.....

Each mating bred three seasons where possible. And so on indefinitely, using, as emergency arises, such combinations of young and old as may be desired. Never using any but sound healthy stock with abundant constitutional vigor and always balancing the mating to offset minor defects of any sort by strength in the same particulars in the mate. Never breeding brother and sister under 18 months old or full maturity. Odd numbers represent males, even numbers females. Letters indicate year of birth and the parent mating.
A. J. C.
Chicago, Ill.

A. Your letter opens a debatable subject. There are vigorous advocates both for and against close inbreeding. Personally we have always been a bit prejudiced, but, from experiments the past five years, we have not found that carefully conducted breeding of related fowls on the home plant shows any degeneration of the stock. Also observations of Standardbred flocks that have been inbred for twenty or more generations shows only improvement of the stock where the matings have been carefully made and only healthy stock used.

Obviously all poultry of any given variety must be more or less closely related. Otherwise we would not have so much uniformity in type and color and also there would necessarily have been

much greater numbers of the original stock than we know to have been the case. Take any individual and assume that for twenty generations he and each of his parents and direct ancestors were the product of an unrelated pair, and you will find that in the 20th generation back of the parents he must have had 2,097,152 direct ancestors, and that the grand total for the twenty generations would amount to 4,194,300 grandparents of varying degree of greatness, and from any one of them he may have inherited something. Of course we know that there must have been much mating of related stock, as in many varieties we had no such multitude of originals twenty generations back, in fact the "ancestors" twenty generations back of some of our present day popular varieties were comparatively few in number, tho we would be at some difficulty to prove the precise relationship.

No two individuals have ever been produced that were exactly alike,—there is always individuality and each new individual differs in some way from any others that have been produced. That is one of the great wonders of Nature. Closely inbred individuals are more like, possess greater family resemblance, than



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the only baby chick food with buttermilk in it.

Just right for the first three weeks. Helps keep off chick diseases, gets chicks started right. It makes strong sturdy chicks that grow into big birds, good breeders, big egg producers—real money makers.

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Brood up
to 1000
CHICKS



More Chicks More Profit

are assured
with the coal -
burning, all-cast-iron
MacKay Colony Brood-
er Heater and its double
automatic regulation that
takes care of sudden weather
changes by automatically and in-
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Both Bottom and Top Drafts

The bottom draft of the MacKay is below the grate and below the fire, where it should be. The MacKay was the first self-regulating Brooder of its type. It is the one longest in use, that has passed the real test of time.

A Turn of Thumb Screw at the Thermostat gives any Temperature Desired.

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The chicks do not crowd with the MacKay because the healthy heat is properly deflected first down toward the floor over the backs of the chicks; and then through the room, making the room of a comfortable temperature so that the birds will leave the heater to exercise and keep healthy.

With the MacKay you can brood more chicks in one flock, and you will soon save enough birds to pay for the equipment. A few cents a day for coal, and attention only twice a day is all required for its operation and care.

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It will prevent most of the big chick losses that usually occur through these complaints. Pan-a-ce-a contains tonics, blood builders, internal antiseptics and other ingredients that will do nothing but good to your chicks—help them over the danger period. Feed Pan-a-ce-a now—read this guarantee: So sure am I that

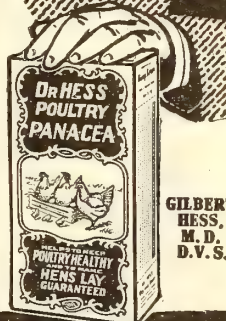
Dr. Hess Poultry Pan-a-ce-a

A Tonic—Not a Stimulant

will help your chicks grow—help them safely to maturity—help to make your poultry healthy and your hens lay—that I have told my dealer in your town to supply you with enough for your flock, and if it doesn't do as I claim, return the empty package and get your money back. Pan-a-ce-a costs 1c a day for 30 fowl, 1½ lbs., 25c; 5 lbs., 60c; 12 lbs., \$1.25; 25-lb. pack, \$2.50 (except in Canada and the far West).

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HESS,
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Our winnings at the Cleveland Show, January, 1916—Cup for best display Leghorns; cup for best display of W. Wyandottes; cup for best display in the Mediterranean class. Also cup for best cock, hen, cockerel and pullet in W. Wyandottes. Twelve times winners of best display at Cleveland. Stock and eggs. Circular free.

H. C. & C. W. SIXT

WEST PARK, OHIO

cross-bred individuals, but each has its separate individuality and its points of difference that a keen and close observer will be prompt to note. Even the ova and the sperms which unite to make the fertilized cells from which new animals are produced, possess individuality, or points of difference, visible or not according to our powers of penetration.

Whatever is inherited from the parents, or from ancestors more or less remote, is not handed down in any positively fixed or definite percentages or quantities. Some particularly prepotent ancestor of any generation may hand out some special characteristic at any time. Where the stock has been carefully inbred for many generations the progeny is more uniform and it matters less whether the inheritance (whatever it may be) comes from the parent, the grandparent or some ancestor several generations back. There is an interesting German theory that, while not confined to exact proportions, may be expressed as follows:

The present progeny takes:—

1. One-half its inheritance in more or less known characters from the parents, one-fourth from male and one-fourth from female, or less or more from either, according to prepotency.

2. One-half its inheritance in unknown characters from ancestors, more or less remote.

In other words, the individual is made up of one-half known and one-half unknown and more or less uncertain characters. No one knows how far back the hereditary influence may extend.

Obviously, on this assumption, if we have a line bred stock in which we know many generations of direct ancestors are known to possess desired characters, it does not particularly matter what certain ancestors such are derived from. It is the unknown that upsets our calculations and when we out-cross we materially increase the unknown element and also promote reversion.

Of course "blood" in reference to lines in breeding is a figure of speech, for the embryo makes its own blood some time after the union of the male and female elements, the ovum and sperm, which unite to make the perfected fertile cell in which the new life and new individual develops—and we have always to deal with more or less unknown individuality with each new life. Until we know more about what life really is, we will always have to do a great deal of guessing and theorizing. Always we will have to deal with individuality and individual prepotency.

The more one studies the subject and carefully observes the close breeding of related stock, the more one is compelled to believe that inbreeding, of itself, does not necessarily bring harmful results. But we have to remember that all inbreeding while it intensifies desired characteristics also intensifies undesirable ones. In order to escape from the dangers of inbreeding, from the intensifying of defects and undesired characteristics, we must carefully observe certain rules:

1. Never breed from specimens that have shown serious constitutional disease.
2. Do not breed from specimens that possess serious defects or deformities.
3. Always use only well matured, sound, healthy stock that possess sound constitutional vigor.
4. Always balance minor defects in one parent by strength in these characters in the mate.
5. Make it a point to know both sire and dam in every given mating, and, so

far as possible, know the immediate ancestors on both sides.

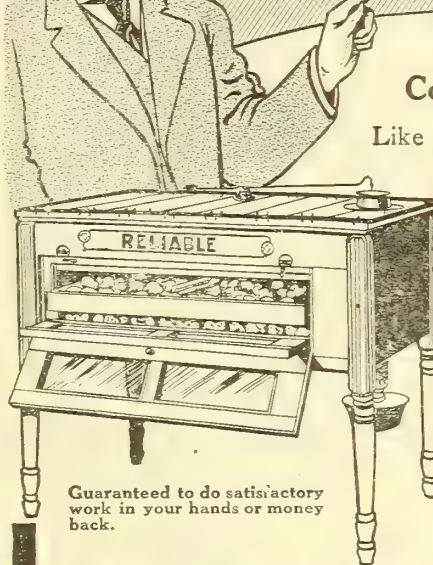
When you know both sire and dam and can observe the progeny intelligently, you are less liable to intensify undesired qualities because you can stop the trouble at its source by abandoning that mating when results are unsatisfactory and you have in your records the key to the condition. You know just which pair produce good and which produce poor results.

Stock is said to "run out" because of inbreeding, to become sterile, to produce smaller eggs and smaller progeny. Such results do come from close breeding of related stock, but it has yet to be proved that inbreeding, *per se*, is the chief cause. It has, however, been pretty well demonstrated that breeding closely related and immature stock will bring about such undesirable results. Full maturity would appear to be the key to the situation here.

Probably none of the smaller varieties arrive at full maturity under 18 months of age, and some the heavy varieties do not reach full maturity until two years old or older. Pigeon breeders will tell you that "color does not set in the blood" until the breeding birds are in their prime, or about four or five years old. By this they mean that breeding birds do not give best results in color of progeny until in their prime as breeders. It is quite probable that with poultry we could breed better color by breeding specimens that are from three to five years old. In fact it is likely that we would get much better results in all desired characteristics if we would breed only from specimens in their second season or older, provided all possess strong constitutional vigor, health, and have not been forced for heavy egg yield.

Your plan for breeding as shown by your table is interesting and it will probably work as well as any other if you observe the rules we have suggested. We have heard breeders say that "inbreeding is breeding the progeny back to sire or dam and likely to produce trouble" and also that "line breeding is the mating of brother and sister, each having half of the blood of each parent, and that in so doing you do not increase the percentage of original blood." While that theory "listens well," it is just as well to take it with a grain of salt. Such data as we have does not show that heredity deals in precise percentages, except possibly in rare instances of some special breeding of certain types and colors. So far as we know the precise relationship of the mated stock makes comparatively little difference, provided both sides of the mating do not possess similar defects or tendencies to similar faults or undesired

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Like the big oak tree that grows from an acorn, the Reliable Incubator factory has grown from a small beginning 34 years ago to the biggest and most modern incubator and brooder factory in the world. Naturally, I can make and sell a high class incubator for less money when I make 500 complete machines a day.

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I can give you only a few general facts in this space. I want to send you my Free Poultry Book, giving full descriptions, besides many pages devoted to facts on poultry raising. Write today for catalog and my low price. It will save you money.

J. W. Myers, President

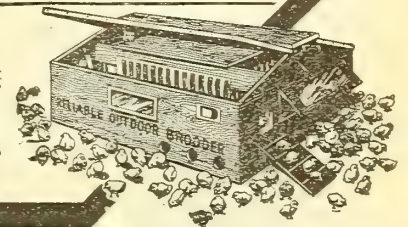
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North American Competition:—154; 156; 170; 165
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Average N. A. Competitions, with Norwich Feeders:—167½ eggs per hen
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With eggs valued at 3 cents each, this amounts to 60 cents per layer, or \$600 for a flock of 1,000 hens.

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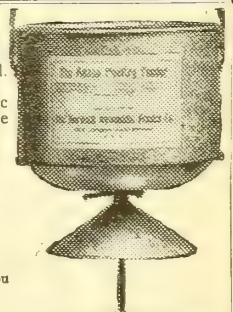
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"Have brought off two 100% hatches in my Progressive,"
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PROGRESSIVE INCUBATORS bring off Blue Ribbon Hatches like these because they are built from the best materials with latest improvements. Most consistent hatchers on the market. Biggest bargains.

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GENUINE CALIFORNIA REDWOOD. Hundreds of dead air cells to protect eggs against sudden changes. Perfect Copper Hot Water Heating System, Double-disk Temperature Regulator, Heavy Safety Lamp, Double Doors, Strong Egg Tray, Reliable Egg Tester, Accurate Thermometer.



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290 EGGS IN ONE YEAR

Mapleside Bred-to-Lay Barred Plymouth Rocks

ACKNOWLEDGE NO SUPERIORS AS LAYERS

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Won First Prize Pullet, Chicago, December 1915; St. Louis, November 1915. 1st Cock and 2nd Hen, 1st and 3rd Pullet, 4th Cockerel. Young and old stock for sale. Real Cornish type. Satisfaction guaranteed. Write today. **DAWDY & DAWDY, Box M, Greenville, Ill.**

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SINGLE and ROSE COMB Special Matings, \$3.00 per 15 Farm Flock - 2.00 per 15

Twenty-four years breeding this variety with the many prizes won at the "Big Shows" should convince the most skeptical that you should send your order for stock or eggs to

F. L. GARNETT, 19021 Nottingham Road, Cleveland, Ohio

characters, and provided both sides of the mating are sound and healthy.

If you always breed from fully matured specimens, breed always for health and sound constitutional vigor, never breed from birds that have been sick or that are out of condition, and try to balance minor defects with strength in one mate, we believe you will get excellent results from your plan. We do not believe you will have to go outside your line for "new blood", but if for any reason you should, we would recommend that you secure a good yearling or two-year-old female for the purpose to mate with your best male and that you use only her pullets for breeding, discarding the cockerels.

Water Supply.

Q. (1) Would you use a large size automatically heated water fountain for fowls, the fountain designed to be filled



First prize Buff Orpington cockerel, Greater Chicago Show, January, 1915. A bird of wonderful color and type. Bred and owned by Struble Buff Orpington Farm, Bascom, Ohio.

only once in several days? Do they keep the water clean enough and fresh enough?

A. (1) Some folks use them and appear to find them satisfactory. Personally, we have no use for water heaters or heated water for our poultry. Our birds have fresh, cold water direct from the spring. It freezes and they pick a drinking hole in the ice on top. When there is clean snow available they get snow in place of drinking water and appear to prefer it.

Q. (2) Would it be a good plan to use a vinegar barrel for several days' water supply and pipe it to the drinking cups to keep same always filled? Would not the water be stale and warm in summer?

A. (2) We keep fowls chiefly to get good eggs for food purposes and we prefer to have them get their water reasonably fresh. The egg is largely made up of water. A good drip system from a flowing spring or from a large reservoir is one of the best ways to supply drinking water. We would not use the barrel plan if we could supply good spring water fresh daily.

Q. (3) Can mites be kept off a roost by covering the roost with sheet metal at the points where it rests on supports?

A. (3) No. Mites will breed in the

dust seams of the metal and between metal and wood. Paint the roosts and supports with crude petroleum every month or two. Be sure to let it dry in before fowls use the roosts.

Q. (4) Can you recommend to me any particular style of caponizing instruments? I want to try caponizing this summer and no one around here seems to know anything about it.

Kewanee, Ill. C. C. C.

A. (4) There is a wide difference of opinion among operators concerning the various kinds of caponizing sets. Nearly every operator has his particular assortment of tools. Personally we like the J. H. Curtiss set as well as any, but the Chinese, Beuoy, Pilling and Greiner outfits all have their advocates. You can buy a set of tools as low as \$2.50 and as high as \$10. A good practical outfit suitable for professional use will cost between \$4 and \$5. If you are going to learn caponizing, the various books on the subject do not cost much and it would be well to look them all over before you buy tools.

Don't Look Like Standard Pictures.

Q. I bought two hens and a rooster, Black Langshans for \$10. I thought they were all right, as they lay fine, have nice red combs and seem very healthy, but my neighbor says I am "stung." He showed me a book, the American Standard of Perfection, and I can see now that my chickens do not look just like the pictures in the book. Should I keep and breed these chickens or will you help me to get my money back? I don't want to be skinned, but these chickens look nice and are tame, just like pets. The man who sold them to me called them a mated trio and says they will breed good. The rooster is a nice shiny black that looks green in the sun, but the hens are sort of dull black and their tails don't stand up so high as the hen in the picture. There is a little gray at tip of wing feathers.

Richmond, Va.

H. T. D.

A. We do not recall that we ever saw any Langshans that looked exactly like the illustrations in the Standard. The Standard illustrations and descriptions are supposed to represent *ideal* show specimens. They do not represent breeding specimens and a lot of the pictures do not faithfully picture any fowl that ever wore feathers. Would not pay any attention to what "neighbor" says. There are lots of folks in this world whose chief occupation seems to be trying to make other folks dissatisfied with what they have or to try to make them think they have been cheated.

If you could secure a pair of Black Langshans that were even fair likenesses of the Standard pictures, it is quite likely that \$150 would be considered a low price for them.

We would breed that trio of Langshans. It looks to us as if the breeder had tried to give you exceptionally good value for your ten dollars. In fact, we would be willing to take that trio off your hands at the price you paid, if they are in good order and as you describe



White Orpingtons

Eggs from my Big, Magnificent, Massive high grade stock—with wonderful egg producing records, \$3 and \$5 per 15. If you want eggs from really fine Orpingtons and great layers—you will book your orders now. Supply limited—satisfaction guaranteed. Few choice birds for sale at exceptionally low prices. EDGAR F. ALDEN, Winnetka, Ill.



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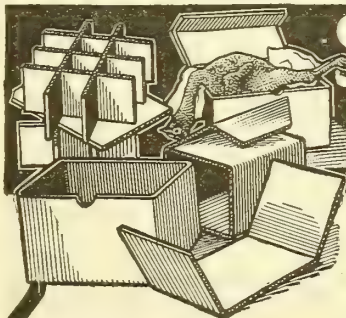
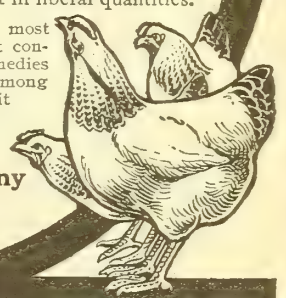
They need Pearl Grit just as badly as you need teeth. They need it to help grind their food—to make it more digestible. Pearl Grit is the best, hardest, cleanest and sharpest grit you can buy. Helps hens quickly pass the molting season—helps them lay more eggs—makes them stronger, healthier, better birds.

Pearl Grit

Serves a double purpose. Its benefits to the fowl are two-fold. Besides helping the digestive organs, it possesses great shell, egg and feather-making properties. Egg shells contain a considerable amount of lime while the egg itself contains, among other substances, sulphur and carbohydrates. All of these ingredients are found in Pearl Grit in liberal quantities.

We have just issued one of the most handsome poultry booklets ever seen. It contains simple instructions and remedies for many of the common diseases among chickens. It also tells why Pearl Grit is such a practical food. Send for a free copy today. A postal will do.

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Our day-old chick boxes are so constructed as to furnish ample ventilation without draft. The boxes are being used daily by hundreds of shippers, large and small. Insist on using

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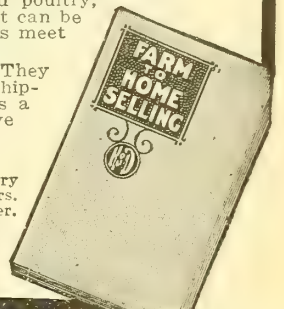
for every purpose. We make special boxes for dressed poultry, live chicks, eggs, fruit, vegetables, berries—anything that can be shipped by parcel post or express. Our parcel post boxes meet the government requirements.

All H & D boxes fold flat and take little storage room. They are easily fastened—no sawing or nailing. Make neat shipments and insure safe arrival. You give your products a pleasing air of distinction when your customers receive them in H & D boxes.

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It tells the secrets of successful mail order marketing of poultry and farm produce. Shows you how to get and hold customers. Send 10c for this book and a 10c rebate coupon, good on first order. We'll also send you free our book, "H & D Poultry Specialties."

THE HINDE & DAUCH PAPER COMPANY,
176 WYANDOT ST., SANDUSKY, OHIO



DARK CORNISH— "Shamrock Strain"

Winners—Cleveland, Forest City Fair, and at Springfield Cornish Club Show. Winner First Pen and Champion Pen of show.

C. L. Woodward - Box 786 - Norwalk, Ohio

ROOFING!

**Galvanized
Freight
Paid
Prices**

Buy Your Roofing Now Prices W-R-E-C-K-E-D

Send us your order now. We will give you the buying treat of your life. We have literally **wrecked and smashed** all previous prices. We absolutely save you from 1/3 to 1/2 on staple quality roofings. We are prepared to furnish you every grade of Ready Roofings, Metal Roofings, Ceiling and everything needed in the covering line.

This is the greatest sale of roofing we have ever advertised. We advise that you order direct from this advertisement. We guarantee satisfaction—your money back if you are not pleased. Our 23 years of honest dealing is your safeguard.

**AJAX
38¢
PER
ROLL**

These Prices For Quick Buyers

Order Now. Be Sure to Mention Correct Lot Number

- Lot No. 8 ED-311.** Ajax high grade rubber surface roofing, put up 100 square feet to the roll, two to three pieces to a roll, complete with nails and cement; 3 ply, 94¢; 2 ply, 84¢; 1 ply, 74¼¢; ½ ply.....**38¢**
- Lot No. 8 ED-711.** 28 gauge painted reclaimed and refinished stock, 2½ in. corrugated only, sheets approximately 2 ft. wide by 2½ to 3 ft. long. Coated with a good grade of heavy asphalt paint. Price per square.....**\$1.33**
- Lot No. 8 ED-411.** Galvanized Roofing, full 28 gauge heavy weight 2½ in. corrugated sheets, 4 and 4½ ft. long only. This material, although used, has been reclaimed and refinished and in addition to being galvanized, will be painted red, free of charge. Price per square.....**\$2.25**
- Lot No. 8 ED-911.** Red and green slate roofing, 108 sq. ft. to the roll, two to three pieces to the roll, complete with nails and cement, high grade covering, full weight and extra heavy. State color wanted. Per roll of 108 sq. ft.....**\$1.08**

All the above prices are f. o. b. cars Chicago, NOT freight prepaid.

FREIGHT PREPAID PRICES

Send us to-day a sketch of your building, showing the size of your roof, length of rafters, etc.; or if you want Ceiling or Siding, give us the dimensions, so we can readily figure out your requirements, and thereby give you freight prepaid prices that are bound to mean tremendous savings to you.

COUPON

**C.H.W.Co., Dept. ED 8
Chicago**

Send me free of all cost, samples of roofing, and quote me freight paid prices. The kind of building I have to cover is.....

Length of Rafters.....

Length of Roof.....

Do you want our Building Material Catalog?.....

Name.....

Address.....

THIS ROOFING BOOK FREE

Mail the coupon now! We will mail you free of cost the most complete book of Roofing, Siding and Ceiling ever published. Shows anyone how to lay roofing without expert knowledge. It contains our latest quotations on Roofing sundries, such as Conductor Pipe, Eaves, Trough, etc. Also illustrates handsome designs in Metal Ceilings; gives you advice as to roofing paints and in every way is a valuable book for every property owner.

We carry everything in the building material line, including Lumber, Millwork, Structural Iron, Plumbing, Heating, Hardware, Fencing, and in fact practically everything "under the sun". If this interests you, ask for the coupon for our Building Material Catalog, as well as the Roofing Book.

**Roofing
Price
Wrecker
ED52**

Chicago House Wrecking Co.

35th and Iron Streets Chicago

Our Million Mark Drive

Over 750,000 People Have Tested My Great Hatcher

They know from experience that in simplicity, ease of management and certainty of results no incubator in the world equals it. The actual, living hens control everything. It's the incubator that can't make mistakes—and you can't make mistakes in operating it.

As Proof Read the Following:

- "Your incubator speaks for itself. I got 507 chicks from 540 untested eggs."—*G. E. Bengtson, Kansas.*
- "It beats them all."—*Edgar Douglas, Missouri.*
- "All you claim for it."—*W. H. Murrill, Indiana.*
- "No bother, no worry."—*Mrs. A. B. Gorton, Kansas.*
- "The greatest success of the age."—*W. Walker, Ohio.*
- "I hatched 225 chicks from 240 eggs."—*B. A. Barton, Texas.*

NATURAL HEN INCUBATOR 200-Egg Size \$3

Costs Only

Artificial incubators cost four times this amount and do not give half such satisfactory results. Remember the Gov't is behind my machine—fully covered by patents. No freight to pay. Agents wanted.

To reach the MILLION mark in 1916, we will send you a SPECIAL INTRODUCTORY OFFER with our FREE CATALOG

NATURAL HEN INCUBATOR CO., 1349 Constance Street, Dept. 4 Los Angeles, Cal.



J. F. SIEMS, Inventor

them. We believe that to get best results with that cock bird the hens should be a rather dull black.

If you get a well mated trio of good healthy, vigorous stock, designed for utility purposes and of fairly good type and color, for ten dollars, you get about all you pay for.

Don't let a tiny bit of gray at tips of flights worry you. It is only a defect and some of the winners at the big shows this winter showed this defect.

Frozen Foot.

Q. I have a Barred Rock cock that has frozen one foot. How he did it I don't know, for his comb and wattles were not touched and he was not out in snow. I fear foot was frozen a couple of days before I noticed it. He has lost his middle claw and toe is badly swollen. Thawed the foot in cold water, cleaned it and gave it a rubbing with camphorated vaseline, which was only thing handy, and I bound it up. This morning it was as warm as other foot, but there was a big blister on ball of foot which had begun to discharge. I made a large opening and let all fluid out. I also gave the foot a rubbing with turpentine and bound it up again. Can the foot be saved or will he have to be killed? He gave me some dandy pullets last spring that have been laying all winter. If there is a chance for him would like to have him have it.

Harvey, Ills.

G. V. A.

A. Your treatment is all right. Keep it up. "Watchful waiting" is about the only course you can pursue. He may come out all right with the loss of a toe or two, but even if he loses the foot, you may be able to breed him to a few good hens if he makes a good recovery and gets a good stump to injured leg. We had a Cochins cock that lost a foot and he bred all right, so a Barred Rock ought to be able to stay on the job. He may have bruised or injured foot, or had a tight leg band that resulted in the freezing; tho why some suffer from frost bite and others do not, or how and why a particular part freezes when apparently more tender parts do not, is a singular fact for which we have yet to find a satisfactory reason.

Investigations.

Q. Since writing you, I have written to Mr. A. and purchased 6 cockerels. "bred direct from champion pen." Can you obtain from some one you know a frank statement concerning A's stock and his standing in the community?

Also find enclosed correspondence with Mr. B., who is a classified ad man and who claims to have this same champion stock, offers birds bred direct from certain hens, but who, I have been assured,



MORE EGGS
by simply
dissolving one

Succulenta Tablet

in your fowls' drinking water. A Government expert has proved it. Just the elements needed for eggs, without the harmful fibre of green food. Money back if you're not satisfied. 100 large tablets 50¢ by mail. Large can, 250 tablets, \$1.00 postpaid anywhere.

THE SUCCULENTA CO. P. O. Box 405-1 Newark, N.J.

"A Revolution in Egg Production." See page 449.

never bought either eggs or stock from these champions. Either there is confusion or somebody lied.
Arizona. W. O.

A. We are holding the correspondence and endeavoring to get more complete information about Mr. B. If he is proved to be misrepresenting his stock he will have to take his advertisement out of this magazine.

As to Mr. A., our representative visited him once only. He has a nice little plant to which, presumably, he devotes his whole time. He has letters to show that he bought champion pen stock. He has good references and is well thought of in his home town. With a very few exceptions his flocks are in excellent condition and of good quality.

We look up, as far as possible, all cases reported to us and endeavor to be fair to both sides and to adjust any differences without undue publicity. Generally we find that in every misunderstanding there is right on both sides. Frequently alleged dishonesty is merely difference in viewpoint, a simple misunderstanding, or plain ignorance of one or both parties.

Personally, we do not think much of this investigation business that some publications are pretending to do. In the first place, we do not believe that it is being done honestly and it savors of practices that bear an ugly name. Secondly, we believe that unnecessary publicity in such cases does more harm than good,—injuries the innocent more than the guilty. Thirdly, we do not see how anyone can expect a great deal in Standard points at prices of \$2 to \$5 per bird, when any birds that really look like the Standard pictures—if such birds ever are or will be produced—would be worth \$100 each, or, at least, would bring that price. Fourthly, it is our opinion that any man who does a crooked business is certain to hang himself sooner or later, and that any man who does not give one hundred cents value for one dollar cannot stay long in business. Fifthly, if it is true that investigations are in order, it would appear that all breeders, big and little, should be investigated, instead of confining the public investigations to non-advertisers or small advertisers. If it is true that an accounting is necessary, then it should cover the whole field, and that will be some job. Meanwhile it is just as well to remember that, apparently, it is difficult to find any two people who view poultry values alike.

In so far as we are able, we are glad to serve you and we do not intend to play any favorites. Whether you are an advertiser or a non-advertiser you will receive the same courteous consideration in our columns.

Sunflower Seed—Lice—Mites.

Q. (1) I had a lot of sunflower seed and fed it freely to layers two years ago. They seemed to relish it and it made them lay too. Do you approve of feeding large sunflower seed?

A. (1) As a variety food in cold weather and in the fall at moulting time, sunflower seed is excellent. We would



Money Making Poultry
Our specialty: Leading varieties pure bred chickens, turkeys, ducks and geese. Prize winners. Best stock and eggs.

Lowest prices: oldest farm. 31st year.
96-page catalog FREE.

H. M. JONES CO.
Box 152. Des Moines, Iowa.

1916 RELIANCE Incubator BARGAINS

Here's the Chance You've Waited For

The four biggest Incubator Bargains ever offered. Buy a 1916 Reliance and get the best. The best built Incubator ever offered. Double Walls—Double top and bottom—Double Glass Door. Hot water heated with heavy copper tank and boiler; has heavy metal safety lamp. Best regulator, thermometer, thermometer holder, egg tray, egg tester, book of instructions. A complete incubator, no extras to buy. So simple that a child can operate it successfully. **And we pay the freight.**

Bargain No. 1—

Reliance 70 Egg Incubator. Worth \$10.00—
Our Freight paid price

\$5⁵⁰

Bargain No. 2—

Reliance 150 Egg Incubator. Worth \$15.00—
Our Freight paid price

\$8⁵⁰

Bargain No. 3—

Reliance 70 Egg Incubator \$5.50
Reliance 70 Chick Brooder \$4.00
\$9.50

\$9⁰⁰

Incubator & Brooder freight paid

Bargain No. 4—

Reliance 150 Egg Incubator \$8.50
Reliance 150 Chick Brooder \$4.00
\$12.50

\$11⁵⁰

Incubator & Brooder freight paid

Freight Prepaid

When you compare these bargain prices on Reliance Incubators and Brooders with others, remember that, besides the Big Saving in Price, you save all the freight.

As a special inducement to you WE PAY THE FREIGHT to your R. R. Station east of the Rocky Mountains. This is a Big Concession and means a material saving to you. Don't be fooled by so-called low prices quoted F. O. B. Factory. WE PREPAY the FREIGHT.

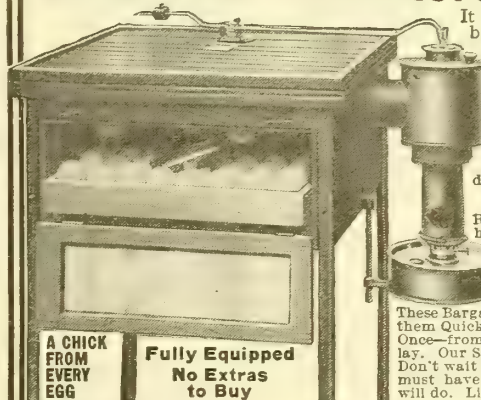
Hatching Guarantee

We guarantee Reliance Incubators to hatch every chick that can be hatched. Reliance Brooders to raise every chick that is worth raising—when operated according to our instructions sent with every Incubator and Brooder.

Money Back Guarantee

We positively Guarantee RELIANCE Incubators and Brooders to be exactly as represented. If any Reliance Incubator or Brooder fails to give PERFECT SATISFACTION, we will take back the machine and REFUND YOUR MONEY.

Reliance Incubators and Brooders



A CHICK FROM EVERY EGG

Fully Equipped
No Extras to Buy

It makes no difference whether you are a beginner or have had experience in the chicken raising business—the RELIANCE will bring you success. It will make good for you—the first time—every time.

Best Construction

That's the keynote of our success—the reason we can guarantee the Reliance to make chicken-raising PAY. Made of the best materials money can buy—side walls, top and bottom double thick. Cold can't get in, heat can't get out.

Complete Equipment

Remember—the Reliance Incubator is Hot water heated with heavy copper tank and boiler and is equipped with the best regulator, thermometer, egg-tester, lamp, egg trays, complete instructions. Satisfaction guaranteed.

These Bargains Limited—Order Today

These Bargain Offers are our New Year Gift to you. Accept them Quick. Order your Reliance outfit today—Now—at Once—from this advertisement. Don't hesitate—don't delay. Our Satisfaction Guarantee protects you absolutely. Don't wait until this New Year Offer is withdrawn. If you must have more information, write us quick. A postal will do. Literature and Details sent on application.

Reliance Incubator Co. Mfrs. of Grain Sprouters
Box 50 Incubators and Brooders
Freeport, Illinois

WHITE ROCKS OF QUALITY

Winners at leading Mid-West Shows. Eggs for Hatching.

\$5.00, \$3.00 and \$2.00 per fifteen from pens. \$6.00 per hundred from flock.
No more Stock for sale until Fall. Satisfaction guaranteed.

MRS. L. R. BUELL

LAKE GENEVA, WIS.

S. C. — ANCONAS — R. C.

OUR WIN AT THE GREATER CHICAGO SHOW PROVES THAT WHEN WE SAY

"'Tis quality you want, 'tis quality we have." Won second cock, first, third hen, first, second cockerel, third pullet, first old pen and first young pen. Single Combs, Rose Combs. We won second cock, first, second hen. Our exhibit of Anconas was the sensation in Ancona Alley. Our display pen of those Mammoth White Leghorns had a crowd around them all the time. No wonder, hens weighing 7 to 8 lbs., and the cockerel 8½ lbs. Big layers of big eggs. Catalog now ready. Are you on our mailing list?

BOWER-KNOFF FARM

R-2, Box 2.

Judge E. G. TEANEY, Mgr.

OLNEY, ILL.

100% increase in egg production sounds pretty good.

Read the announcement of "A Revolution in Egg Production" on page 449.

1915 Revised Edition

American Standard of Perfection

This great book has just been revised and it gives you the correct Standard Shape, Color and Weight of every recognized variety of poultry, including the new breeds that have been admitted. You will also find the disqualifications of each variety.

YOU CANNOT

raise, mate, exhibit or sell fowls intelligently without it. It contains ideal illustrations of the different varieties of fowls photographed from living models and gives the correct color of plumage on your birds. It's your guide to success in the poultry business. No one can breed fowls for exhibition without a copy of the *American Standard of Perfection* as a guide, and it is the only book of its kind published in this country; authorized, copyrighted and published by the A. P. A. Price postpaid, cloth, \$2.00; leather, \$2.50.

SPECIAL OFFER

American Standard of Perfection (cloth) **\$2.50**
and American Poultry Journal for 1 year

If you want leather binding add 50 cents to this price. Canadian subscribers add 25 cents per year for postage; foreign subscribers add 50 cents per year for postage.

AMERICAN POULTRY JOURNAL PUB. CO.

542 South Dearborn Street

Chicago, Illinois

not feed it too freely, as it is quite fattening. Five pounds in 100 lbs. of scratch grain is a very liberal allowance and generally not over one pound is used.

Q. (2) Please tell me of a good lice killer to use on roosts and one to use on hens in cold weather.

A. (2) Nearly all of the liquid lice killers are good to use on the roosts. See answer No. 3. A mixture of one-third blue (mercurial) ointment and two-thirds petroleum jelly, well mixed, applied in very small amounts just above and below the vent and under wings next to body, is a satisfactory remedy to get rid of body lice on fowls.

Q. (3) Fowls have been very lousy all winter. Would like to know if coops that have been left out in the cold all winter will be free from mites and safe for young chickens in the spring? Will the severe cold kill the eggs of lice and mites?

Torrington, Wyo.

C. H. P.

A. (3) The cold will not affect the parasites or their eggs. When they thaw out they will be just as active as ever. Thoroughly clean the coops and paint them with crude petroleum, inside and out, and get it well into cracks. Let coops dry well before using. Same is good to use on roosts. If you mix with a gallon of kerosene one pound of crude naphthalene flakes, you will find it a good lice and mite killer to paint roosts or coops. Be sure it has dried into wood before fowls use the roosts.

Spotted Liver.

Q. What is the trouble with my chickens and what can I do for them? They are sick and sit around most all the time and I have lost several. There are white spots on the liver and liver looks like fish eggs. They are fat and have good appetites.

Baker, Ore.

J. S. S.

A. Trouble may be tuberculosis or may be one of several infectious intestinal diseases. Would send fowls to nearest State Agricultural Experiment Station for examination and diagnosis. It is probable that the best and safest remedy would be to get rid of the whole flock; thoroughly clean and disinfect your poultry houses and runs and make a fresh start with sound healthy stock. Better still, start your new flock on ground that has not been used for poultry and house them in open-front buildings. The "fish egg" appearance of liver is an almost certain indication of tuberculosis.

Black Feathers in Barred Rocks.

Q. (1) I have Barred Plymouth Rocks. I notice in my flock, and in others as well, that the birds show one or more black feathers. What per cent of a cockerel-bred line do not have these black feathers? Do you consider that this is evidence that the stock is not well bred?

A. (1) Even the very best Barred Plymouth Rocks will sport some black feathers. We have yet to see a specimen in natural condition that failed to show one or more black or black splashed feathers. See the excellent series of articles on Barred Plymouth Rocks by C. H. Latham, now running in A. P. J. and which began in January, 1916, number. The black feathers are defects, but you will find them in the best bred stock in the country.

Q. (2) I supposed I bought good stock to start with and have added new



Wendell's

Incubators

Metal inside and out, heavy case well padded and double walls, automatic as near as can be constructed. A cracken good one.

We have specialized on brooders for the past 15 years.

We make all sizes, all metal, hot water heat, Warm Flannel to Lay on Chick's Back. The best on the market. We have not raised our prices this year. 25 to 50 chick brooder for \$2.50—50 to 75, \$3.00—75 to 125, \$4.00. It will pay you to

Send Postal Today for free book

Wendell Incubator Company

Holly, Mich.

100 Egg	\$10.00
150 Egg	12.75
200 Egg	16.00



FOR PARCEL POST AND EXPRESS SHIPMENTS

Use Rippley's Perfect Egg and Day Old Chick Boxes

Ripley's Perfect Egg Boxes

Size	Doz.
15 Egg	\$1.10
30 Egg	1.85
50 Egg	2.50
100 Egg	4.00

gated cardboard. Stand 5 men's weight. Cushion effect. Dead air cells keep out cold and heat. Chick boxes have correct ventilation. Glued tape seals boxes. WRI deliver chicks or eggs 3,000 miles with safety, and eggs in hatchable condition. Satisfaction guaranteed or money returned. Put up in packages of 1 dozen. 25 cts. extra for each package broken. Sample box 25 size chick or one setting, egg 25c postpaid. Use RIPLEY'S EGG CARTONS to ship—mail—eggs to city. Your name or farm printed in 1 color. Made of strong chip cardboard. Folds flat for shipment. 30 doz. can be packed in egg case.

Prices No. 2 Carton. Two partitions. Heavy Card Board.

500 Boxes	\$ 6.50
1000 Boxes	10.50
5000 Boxes	40.00

No. 3 Carton. 4 partitions. Made single manilla pulp lined, chip board.

500 Boxes	\$ 4.50
1000 Boxes	7.00
5000 Boxes	30.00

No. 2 Carton

Perfect Chick Boxes

100 Chick Size	\$2.85 per doz.
50 Chick Size	1.75 per doz.
25 Chick Size	1.25 per doz.

Catalog Free Tells all about Rippley's Boxes, Cartons, Brooder Heaters, Hovers, White-washers, Sprayers, Coops, Carts, Feed Cookers, etc.

RIPLEY MFG. CO. Box 027, Grafton, Ill., U.S.A.

LAYERS OR SHOW BIRDS

We can supply you birds that cannot be excelled for type, color, or as egg producers. Our birds have free range on a 300 acre orchard, meaning sturdy, vigorous fowls; 265 trap-nests in operation, so we know what these birds will do. Wh. Wyandottes and S. C. Wh. Leghorns. Baby Chicks and Eggs for hatching.

STRAINS ESTABLISHED 1906

LAKEWOOD FARM

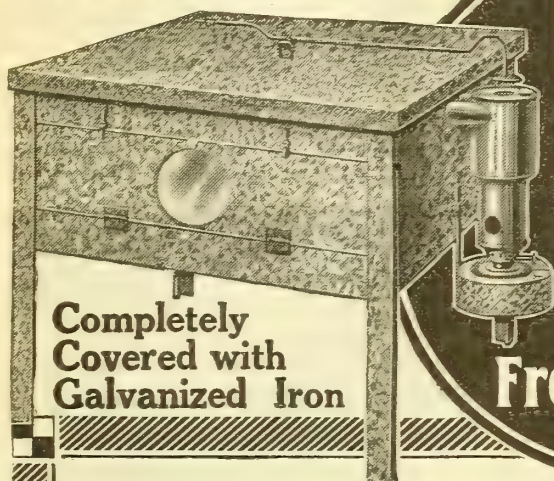
HOLLAND, MICH.

Ironclad Wins

TRADE MARK

IN THE TWO BIGGEST HATCHING CONTESTS EVER HELD

140 EGG INCUBATOR



Completely Covered with Galvanized Iron

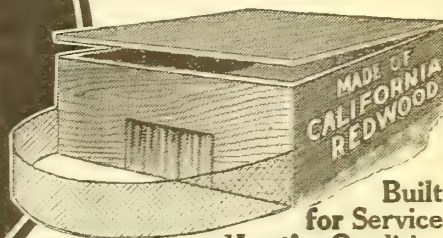
Both for

\$10

Freight Paid

140

CHICK BROODER



Built for Service and Lasting Qualities

THE Hatching Contest conducted by Missouri Valley Farmer and Nebraska Farm Journal were the two biggest Hatching Contests ever held in the world. The IRONCLAD Incubator is the only incubator that for two years in succession won in these Big Contests. The last contest was won by Mrs. C. F. Merrick, Lockney, Texas, with her Ironclad Incubator. If you are going to buy an incubator this year, it will save you time and money to order an Ironclad first. We prove its merits—tell you how they're made and what they're made of right at the start. Read Mrs. Merrick's sworn and witnessed statement.

WE GIVE YOU 30 DAYS TRIAL

You have nothing to risk when you buy an Ironclad Incubator. We will send you machines—let you use them 30 days—urge you to compare them with others in quality of material, hatching ability, workmanship and price. Some manufacturers don't tell you how their incubators are made. *We do.* We want you to know. We are proud of the quality and if you don't find them satisfactory send them back—we'll pay the freight charges and return your money. You are absolutely safe. We do as we advertise, and tell you exactly what to expect.

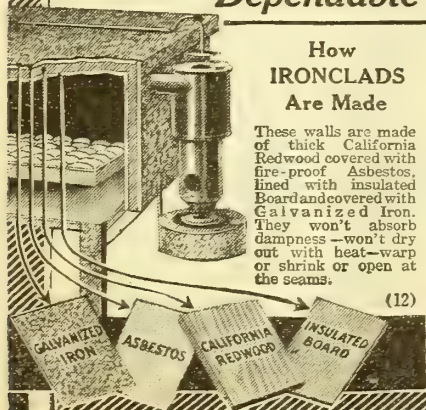
IRONCLAD INCUBATOR CO., Racine, Wis.

Gentlemen:—I am writing to let you know that I won in the Big Hatching Contest held by Missouri Valley Farmer and Nebraska Farm Journal. I placed 148 eggs in my 140 egg Ironclad incubator and hatched 148 strong chicks. I also took off two more perfect hatches during the season and I wish you could see my chicks; they are doing splendid. My success has been perfect. I have examined quite a few incubators and I like none so well as the Ironclad. Respectfully yours, Mrs. C. F. Merrick, Lockney, Texas.

10 YEAR Ironclad GUARANTEE

Ironclad Incubators are made of Genuine California Redwood; on top of the Redwood we place a lining of fire-proof asbestos. Outside covering is galvanized iron; inside is lined with insulated board. When an incubator is constructed of material of this kind, it gives you the strongest and most durable incubator that can be made—a machine that will not warp or shrink or open up at the seams, as every joint is lapped over with our galvanized iron covering, giving you an incubator that will last a lifetime.

Don't Class This Big All-Galvanized-Covered Dependable Hatcher with Cheaply Constructed Machines



How IRONCLADS Are Made

These walls are made of thick California Redwood covered with fire-proof Asbestos, lined with insulated Board and covered with Galvanized Iron. They won't absorb dampness—won't dry out with heat—warp or shrink or open at the seams.

(12)

Ironclads are not covered with cheap tin or other thin metal and painted, like some do, to cover up poor quality of material. Ironclads are made to last, and they are shipped in the natural color—you can see exactly what you are getting. *Don't buy an incubator until you know what it is made of.* Note these Ironclad specifications—making Ironclads the highest quality machines ever sold at the price we quote. Genuine California Redwood, triple walls, asbestos lining, galvanized iron covering. Galvanized iron legs, large egg tray, extra deep chick nursery—hot water top heat, Tyco's Thermometer, glass in door. Complete instructions are sent with each incubator, and every Ironclad is guaranteed for 10 years. All of these advantages and others fully explained in our free catalog. Write for it today or order DIRECT from this advertisement and SAVE TIME.

IRONCLAD INCUBATOR CO.
Box 49 RACINE, WIS.

This Book Sent FREE

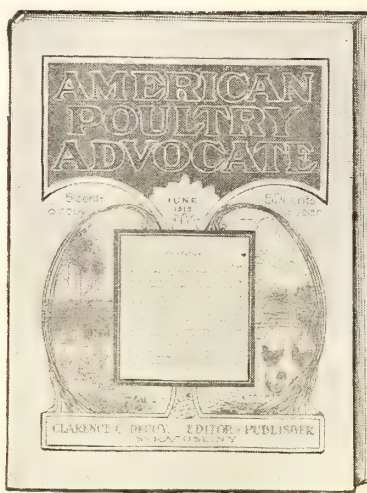
It tells how Ironclads are made and why they win in the Big Hatching Contests.



Value

\$2⁰⁰and extra
good value
at that

Cost

\$1⁰⁰for all 3
magazines
for 1 year

American Poultry Journal, Chicago, Ill. The one great poultry paper of America. Mailed promptly on the first of each calendar month; 68 to 252 pages per issue; price \$1.00 per year.

American Poultry Advocate, Syracuse, N. Y. The leading and most widely advertised poultry paper of the East; published monthly; price 50c per year.

Farm and Home, Springfield, Mass. One of the oldest agricultural publications in America. Conceded to be one of the best papers of its kind. Published twice a month; price 50c per year. (24 issues).

All 3 for \$1

AMERICAN POULTRY JOURNAL, 1 yr.
AMERICAN POULTRY ADVOCATE, 1 yr.
FARM AND HOME, 1 yr.

Order today.

**American Poultry
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American Poultry Journal Pub. Co.
542 South Dearborn Street, Chicago, Ill.

Enclosed please find \$1.00 for which send American Poultry Journal, Farm and Home and American Poultry Advocate, one year each, to

Name.....

Street.....R. F. D.....

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This is renewal to.....

Canadian subscribers add 75c for postage;
foreign add \$1.50.

Wolf's R. C. White Leghorn Winners

Winners at the Great National Shows, Chicago Coliseum, Milwaukee, St. Paul, Duluth and many others. Won this year at Milwaukee, Silver Cup for best display, which included 5 firsts, 3 seconds, 3 thirds, 1 fourth. This record made in competition with birds winning at the World's Fair, San Francisco. Our birds have especially fine type, long broad backs, and real color.

Eggs for hatching. Stock for sale. Catalog free. Write today.

MRS. JOHN WOLF Box 40 MERRIFIELD, N. DAK.

NOVAK'S WHITE ORPINGTONS

Winners at Milwaukee, Racine, Wisconsin State Fair, and wherever shown. Won at Milwaukee this year—1st and 3d cockerel, 3d and 4th hen (4 entered). Racine—1st, 2d, 3d and 4th cock; 1st, 2d, 3d and 4th hen; 1st, 2d, 3d, 4th and 5th cockerel; 1st, 2d, 3d, 4th and 5th pullet; best display. White Leghorns (two entries), 1st pullet, 3d cock, special best female. First White Orpington Cockerel at Milwaukee for sale at a bargain. Eggs for hatching. Stock for sale at reasonable prices. Write at once.

NOVAK POULTRY FARM

R. R. 1, Box 85 MRS. NOVAK Racine, Wisconsin

"QUALITY" GOLDEN WYANDOTTES

Winners at Wisconsin's leading shows and Chicago Coliseum show, 1915. Winning 1st Cock and 1st Hen in strong competition. Eggs at \$3.00 and \$5.00 per setting. Some stock.

F. S. CLAUSEN : : OCONOMOWOC, WIS.

cockerels each year from reputable breeders. Still they throw these black feathers.

A. (2) It is a mistake to add new blood by breeding a cockerel of a different strain each year. It is a wonder that the proportion of off colored feathers is not greater where you make such practice. To get best markings you will have to breed your stock in closer family lines. If on going over a good Barred Rock we failed to find one or more off color feathers, we should suspect that some one had seen them first and pulled them.

Q. (3) A few of my chicks come with twisted wing feathers. What is the cause of this? J. Z., M. D. Flanagan, Ill.

A. (3) Atavism. The Barred Rocks have Asiatic blood in some ancestral lines. Twisted wings are quite common in Asiatic fowls and some ancestor has handed this tendency, which is a strong one, down to your flock. Don't breed



birds with this fault, it is a difficult one to get away from.

Red Sussex—Dark Cornish.

Q. (1) Is a Red Sussex cockerel supposed to have white feathers on lower part of his wings?

A. (1) Defective specimens do show such off color but it is a disqualification under the Standard. Black and red are only colors in primary and secondary wing feathers and when the wing is folded only the red should show on the surface. See the detailed description in Standard.

Q. (2) Should a Dark Cornish cockerel have spots of brown on his back? Should he be short or long in legs? J. H. B.

Rockaway, N. J.

A. (2) Back should be greenish-black intermixed with dark red, the black predominating. Thighs should be of medium length, large and muscular. Shanks should be short and stout.

Chicken-Pox.

Q. About two weeks ago I noticed a brown scab on top of White Wyandotte's comb. Thought it was only caused by other chickens pecking at it. About four days later the bird died. From this time I noticed others with the same symptom. Sometimes the scab

formed near the eye. It seems to be very contagious. Several have died. Kingston, Ont. J. H. S.

A. Trouble is probably chicken pox. The following simple treatment is recommended by a practical poultryman as giving prompt results in most cases. Withhold all food for 24 hours. Then give mash containing 10 per cent flowers of sulphur. Repeat for three days. At this time it is claimed that there will be marked improvement and the pox sores will begin to dry up. Any cases not showing improvement should have treatment continued for three days longer. While the amount of sulphur given is far in excess of the amount that can be assimilated by the fowls, the remedy is simple and inexpensive and well worth testing.

We have had very satisfactory results from use of calcium sulphide in the drinking water. In a quart of drinking water dissolve as much calcium sulphide as will just cover a silver dime, and allow no other drink.

Giving Epsom salts in the mash once a week, alternating with flowers of sulphur given three days after the salts, is claimed to prevent and cure chicken pox. The dose of Epsom salts is one teaspoonful to six birds, given in the mash. The dose of flowers of sulphur is one tablespoonful to a quart of mash. Used as a preventive the salts and sulphur should be given alternately twice a week for one month, both Spring and Fall.

As a local application to pox sores, use carbolyzed petrolatum.

Oats.

Q. (1) What is meant by clipped oats?

A. (1) Oats that have been machined to remove a part of hull and the sharp tips.

Q. (2) Should oats be hulled before using in the dry mash?

A. (2) We use ground oats or rolled oats and do not sift out the hulls.

Q. (3) What kind of material makes the best poultry litter?

A. (3) Any good, bright, clean straw. Do not make it too deep, as it attracts moisture in bad weather and becomes damp; packs down easily and may spoil or mould. Musty or mouldy litter is dangerous.

Q. (4) Would you advise the use of corn husks as litter? A. H. C. Virginia Mills, Pa.

A. (4) If cut small in a shredder they make good litter. May be used without shredding, but do not like them as well.

Clumsey Cockerel.

Q. What can I do for a dandy cockerel that has difficulty in serving. He is very slow and when he makes an attempt falls off about four times out of five. Would be glad to know of any feed or treatment that will bring him round all right. F. J. K. Quincy, Ill.

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For \$2.96, including heater, you can build the simplest, most efficient, and most satisfactory brooder ever made. Wind-proof; fire-proof; rat-proof; fool-proof. Can be built in an hour by anyone with no tools but saw and hammer. Illustrated plans, 25c.

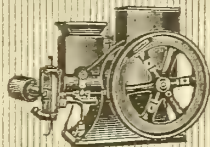
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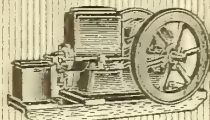
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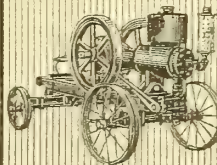
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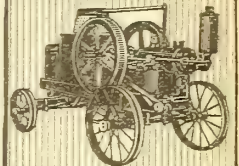
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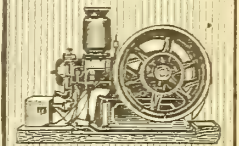
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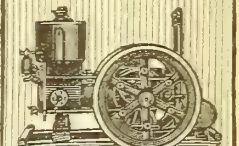
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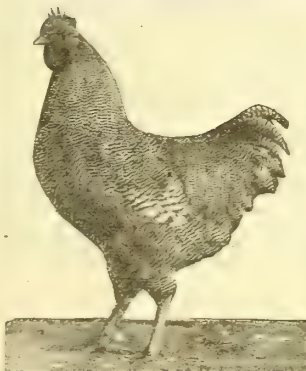
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the most coveted prize, the one that all breeders strive for? Well, that prize was captured at Boston, 1916, by TANTALIZER, 1st Cockerel and Champion

Barred Rocks

In addition to this my birds won 3d cockerel, 4th pullet, color special, 3d cockerel-bred hen, 3d cockerel-bred pullet, 4th cockerel, bred pen. Think of it! This wonderful win with only 8 entries. Also consider that unlike other Eastern shows, the cockerel class was composed of 20 different exhibitors. Have a few brothers and sisters of these wonderful birds at prices within your reach; also eggs from these winners. Send for complete list of our winnings.

W. W. Carpenter, E. Providence, R. I.

"Tantalizer" is a grandson of Boston King.
1st cockerel, Boston, 1913.

WH. WYANDOTTES—REGAL STRAIN

Won 1st and 4th Cockerels, Illinois State Show, DeKalb, January, 1916. 1-23 Ckl. at Batavia, Dec. 1915; also second best bird in show. Stock. Eggs for Hatching and Baby Chicks for sale.

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WHITE WYANDOTTES
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"Champion Layers"—We BRED THEM



WHITE WANDOTTE
Official Record. 265 Eggs

These five White Leghorn pullets won the silver cup and seven medals in the last North American Laying Competition. This pen produced 1,139 eggs, the highest official record made by any pen of five hens bred on American soil. Individuals produced 251, 250, 224, 222 and 192. Remember, we bred these

COMPETITION WINNERS

which defeated the Leghorn entries of Tom Barron and Ed. Cam. We still own them as well as hundreds of other heavy-layers, carrying the same blood. A thorough-bred English cockerel sired a pullet that broke all records, making an official record of 314 eggs, in North American Egg Laying Competition, 1915. If you want Leghorns that lay, if official egg-records mean anything to you, you should secure our strain. Our Reds, Wyandottes and Orpingtons are also wonderful layers. We have many individuals which hold remarkable official records and this bred-to-lay blood is strong in every bird in our great flocks. We supply

Eggs for Hatching, BABY CHICKS, Early Hatched Cockerels, Breeding Stock



BUFF ORPINGTON
Record, 272 Eggs

at very moderate prices. And our customers know what they are getting because we have demonstrated the quality of our stock thru consistent winnings at the great public laying competitions.

Write today for copy of

"THE STORY OF THE 200-EGG HEN"

which contains pictures and records of our competition winners, plans of trap nest, feeding formulas and other valuable information which will help you make your flock more productive and profitable. Price 10 cents; deducted from first order.



S. C. R. I. RED
Official Record, 251 Eggs

PENNA. POULTRY FARM, Box A Lancaster, Pa.
America's Foremost Breeders of "Hens-That-Lay"

LIGHT BRAHMAS — BARRED ROCKS SINGLE COMB WHITE LEGHORNS

The same old story. We don't send out any high colored catalogs but give you your money's worth in birds. We won at the Kansas State Fair, at Hutchinson, 1 Cock, 2-4 Hen, 1-2-4 Pullet, 1-3 Cockerel, 1 Pen, all Light Brahma Club specials on shape and color, male and female.

W. H. WARD - NICKERSON, KANSAS

Chicago Winners Jan. 1916

Won every prize on Silver Penciled Wyandottes. Come to headquarters to save time and money. Wonderful young stock for sale, bred from these winners. Eggs for hatching. Our prices are reasonable. Guarantee to please every customer. Write your wants.

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LOCK'S BARRED AND WHITE ROCKS

Winners wherever shown, including the largest Mid-West shows. Grandest lot of young stock we ever raised. SPECIAL SALE OF BARRED ROCK COCKERELS AT A BARGAIN. Eggs in season. All stock shipped on approval. Every bird guaranteed.

C. W. LOCK 733 Haish Ave. DE KALB, ILLINOIS

A. Let him run with a few yearling or two-year-old hens. Keep them in a yard where there is no other male to interfere or no one to pretend an attack from other side of wire fence. Keep the flock well fed and in condition and let the bird alone. He will be all right if he is any good at all. Probably all he needs is a chance to mature.

Feather Pulling.

Q. I have a fine pen of Rhode Island Reds that have the habit of pulling feathers, over which I am greatly disappointed. Please advise me. F. N. Chicago, Ill.

A. Give yor birds more room and encourage them to exercise by giving part of their grain in clean litter. Feed some fresh green food freely. Close confinement, lack of greens, too little exercise, also crowding, are common causes. A little powdered aloes mixed with lard and applied to the feathers about the picked parts will often help to stop this habit. "Poultry bits" are furnished by supply houses. These prevent closing of beak, but do not interfere with eating, and so discourage feather pulling. It is difficult to break this habit.

White Diarrhoea.

Q. It is said that the germs of white diarrhoea are in the eggs. Does the male bird carry the germ in his system? Can the chicks become infected thru the male? Is there any way of telling by the appearance of the old hens if they carry white diarrhoea germs? Is there any remedy that anyone could give little chicks just hatched to prevent the disease? E. J. H. Amelia, O.

A. White diarrhoea is believed to be transmitted thru infected ovaries of the hen. It is not known whether the male can carry infection or not. We do not know of any way to tell by the appearance of a hen whether she is infected or not. Some believe that a blood test will determine whether or not the hen carries infection. We have engaged a lot of eggs for this season, for experimental work, from hens which the State Station has tested and condemned as carriers of white diarrhoea infection. After we hatch these eggs and try to raise the chicks, we expect to know more about the value of this particular test.

The best way to prevent the trouble is to breed only from hens that appear in every way to be sound and healthy. Hatch the eggs properly, give the chicks good care. Do not feed the chicks too soon after hatching. Keep them in clean brooders and give them only good sound wholesome food. With proper attention given to the breeding stock, always breeding for health, good hatching and cleanliness and good management during brooding—feeding no spoiled food—we believe the danger is slight.

Rocks or Brahmas on Small Lot.

Q. I have a lot 50x75 feet, where I intend to raise chickens and will Winter about 50 hens and pullets. Shall use an open-front house. I like the White Rocks and the other side of the family would rather have Light Brahmas. We would like to have your opinion as to which would be best for us for utility. We will try to raise 200 chickens and want the best for Winter eggs. Salina, Kans. H. W. W.

A. Either White Rocks or Brahmas

will give you good table poultry and a good yield of Winter eggs. It takes a little longer and costs a little more to grow Brahmas to full maturity, but you get a bigger bird. Properly handled the Brahmas will lay just as well as the Rocks. On a small lot you will find it easier to handle Brahmas and to keep them confined. Brahmas are disposed to be rather quiet and to stay at home—a 3-ft. fence will keep them in. White Rocks are great wanderers and foragers and easily learn to climb fences. If they have never been allowed to range you can keep them inside of a 4 or 5-ft. fence very comfortably. If they have had free range you will find that they make no difficulty about walking up and over a 5-ft. fence. Any active fowl is much more likely to develop bad habits in confinement than is the heavier and more quiet bird.

Peanuts for Poultry.

Q. I have a chance to get chips from roasted peanuts cheap by the hundred pounds. Are they good for poultry? How should they be fed? How much?



First prize Columbian Wyandotte cock, Greater Chicago Show, January, 1916. This win made with but one bird entered in the class. Wonderful specimen. Bred and owned by Jos. Hauk, Waukegan, Ill.—F. D. R.

How would they affect egg production? Cincinnati, O. C. W.

A. We have never fed any to poultry. Would try them in scratch grain, about 10% of whole mixture. Being rich in protein and oil they will probably prove a good food.

Cholera.

Q. What are the symptoms of chicken cholera and what causes it? Is there a cure? Are pullets subject to it? What is a good preventive? Creston, S. D. R. F.

A. Symptoms: Foul smelling diarrhoea with yellow coloration of urates (part usually white and lime like); frequent discharge from bowels; yellow urates becoming greenish; comb and headgear usually pale; bird is weak on legs and walks with staggering or trembling gait; crop usually full of food, due to paralysis and inability to digest food; all symptoms follow rapidly; bird generally falls over and dies in convulsions in from a few hours to a few days after first symptoms are noticed.

Poultrymen, Increase the Value of Your Flock

in poultry yard and showroom. Infuse into it winning Wilburtha blood. Our birds are bred to lay, to pay, and to win. Our strains have been improved to the highest degree, for utility and show purposes, by careful selection, mating, and every good practice known to us, as experts of many years' experience. Nowhere have we spared a dollar or an ounce of labor to attain the highest standard. Every feature of our model plant contributes to the health and excellence of our winning birds—from the best type of buildings, to the best disinfectant to keep them bright and sanitary. Fine birds, well cared for, win for us. They will win for you, too. Pay us a visit and make your own selection of the famous

Wilburtha

S. C. White Leghorns

—perhaps the greatest of our strains. Over 3000 birds, choicest specimens, both male and female. Bred for utility and exhibition purposes. Large, early maturing, and heavy layers. Chicks mature rapidly. Excellent table birds at exceptionally early age. Our S. C. Whites are always in the ribbons. They won at

Palace
Cock 1-3 Cockerel 1-2
Hen 2 Pullet 4-5
Pen 1-3

Madison Sq. Gardens
Cock 4 Cockerel 4
Pullet 3
Pen 3

Wilburtha

S. C. Buff Leghorns

are a source of pride to us, and of profit to the many buyers of this splendid strain. They are exceptionally fine specimens of a great utility breed—and show-winners of merit, too. This year they won at

Palace
Cock 3 Cockerel 4
Hen 3 Pullet 4
Pen 2

Madison Sq. Garden
Cock 2-5
Hen 3
Pen 2

Wilburtha

Columbian Wyandottes

are noted as wonderful egg layers, and for great size and the excellent quality of their flesh. No where can you get better all round quality in this splendid breed than from our farms. They have an enviable show record this year, too, at

Palace
Cock 1-5 Hen 1
Pullet 5
Pen 3

Madison Sq. Garden
Cock 1 Cockerel 5
Hen 1-2 Pullet 3
Pen 1

Wilburtha

Col. Ply. Rocks

are unusual general purpose fowls. Rapid growers. Good layers. A superior strain where large brown eggs are the market's favorite. A highly satisfactory breed—and Wilburtha has the premium flock. See our winnings this year at

Palace
Cock 1-2 Cockerel 3-4
Hen 3 Pullet 1-3
Pen 1

Madison Sq. Garden
Cock 3-4 Cockerel 1-3
Hen 3 Pullet 2-5
Pen 1

Wilburtha

S. C. R. I. Reds

—a breed to which we are giving special attention. Ours is a likely strain, and is making good. We have some splendid specimens of both sexes, at attractive prices. We did not show them at the Palace or Garden this year.

Eggs For Hatching

selected with the greatest care, and rigidly inspected for uniformity and fertility, are sold under our liberal guarantee. Order these and be sure of a good hatch. You do not experiment when you start with our hatchings, eggs or baby chicks.

Baby Chicks

of all our famous strains are ready. These hustling day-olds are from pens carefully mated for best results. Behind them is the remarkable record of older Wilburtha birds. Lively, vigorous—they give assurance of a valuable future. We have also chicks from special matings, at attractive prices.

Make this a season of improvement and greater profits—in table eggs or birds, quality matings, better hatches, winnings at the shows. Wilburtha birds are making greater profits for us, and for our hundreds of customers. They will make good for you. Don't fail to get in touch with us before you buy. Our new mating list is ready. Send for it and our handsome catalog today.

Chas. J. Fisk
Owner

Wilburtha
POULTRY FARMS

Trenton Junction, New Jersey

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OWEN FARMS

**Buff and White Orpingtons
White Plymouth Rocks
S. C. Rhode Island Reds
White Wyandottes and
S. C. White Leghorns**



Have proved they have no superiors. They have made good in the show room, the breeding pen, the laying pen. They have demonstrated that they live, grow, lay and pay.

1916 Matings

Are better and stronger than ever before. Never before in the history of the Farms have the minor details been so perfect in every male and female as they are today. My new Mating List will give you a careful word picture of every male used in my best pens and a general description of all females. Every mating in White Plymouth Rocks, White Wyandottes and White Leghorns has been put together by the master hand of Frank H. Davey. Every mating in Buff Orpingtons, White Orpingtons and S. C. Rhode Island Reds has been made by Maurice F. Delano. Our combined experience in successfully breeding strong, healthy, winning birds amounts to nearly SIXTY YEARS. This experience means much to us and should mean something to you.



First Prize CkL., New York, 1914

1916 Mating List

Tells the story and will be ably seconded by my grand new Catalog, which will be out early in March. You cannot afford to purchase eggs in my varieties without sending for these books and carefully considering Owen Farms quality. My customers have won highest honors all over the country with chicks raised from my eggs, and 1916 quality is better than ever. Owen Farms guarantee is original, and different, and really means something.

Eggs from the Best Matings in America
\$10 per 15. \$30 per 50. \$50 per 100

Eggs from Grand Good Matings
\$5 per 15. \$15 per 50. \$25 per 100.

No Reserved Matings. If you must have eggs from special pens they are yours at prices stated in Mating List.

1915-16 Winnings:

BUFF ORPINGTONS

At Madison Square Garden, New York, in the Best Quality Buff Class Ever Cooped

1st and 4th Pen; 2nd and 4th Cock; 1st and 5th Hen; 2nd and 4th Cockerel; 1st Pullet, and 1st Collection by a very wide margin. The TENTH OUTSTANDING BUFF WINNING during the past thirteen years Owen Farms birds have made at this great show.

WHITE ORPINGTONS

At the Great Palace Show, New York

1st, 2nd, 4th Cock; 1st, 2nd, 3rd, 5th Hen; 1st, 2nd, 4th Cockerel; 1st, 5th Pullet; 1st, 2nd, 3rd Pen and ALL SPECIALS. The strongest team we ever showed. Our customers won at the other leading shows.

First symptoms may be noted at any time from three days to two weeks after infection. Disease is a germ disease. Best means of prevention is to quarantine all birds brought onto plant for two weeks before admitting them to flock and to forbid visitors in the poultry yards or houses. Treatment after disease has started is generally unsatisfactory. Kill affected birds without drawing blood and burn the carcasses. Burn all droppings and litter. Clean up and thoroly disinfect the premises. Valuable specimens can be cured by careful treatment if discovered in time, but the disease is so rapidly fatal and the first symptoms so easily overlooked, that when the sick fowls are discovered it is generally too late for effective treatment.

Double Yolked Eggs.

Q. I have a White Leghorn pullet six months old and she has been laying for past three weeks. Her first two or three eggs were normal, but for past week she has been laying a double yolked egg every other day. I have had four such eggs from this pullet and one from another in the same pen. What shall I do?

Merritton, Ont.

C. W.

A. Slight abnormality of egg organs of pullets just becoming established in laying are not uncommon. If the bird was ours we should simply await developments and not worry about it. It may be that she is one of the gluttons of the flock and is stuffing herself too much. You can remove her from flock and feed her more sparingly and give greens freely.

White in Ear Lobe.

Q. I have a nice cockerel with one ear lobe partly white and I would like to know what to do to make it red again. This is a valuable cockerel and first-class in every other way.

Akron, O.

P. H. J.

A. If the white came there naturally you cannot help it much. If friction and gentle massage will not bring the color back to stay, would not waste time on it. Get a bird that is naturally red and stays red.

Dry Mash Formula.

Q. I have a small flock of fifteen Black Minorcas. I feed the following scratch food: Corn, 50 lbs.; wheat, 25 lbs.; oats, 15 lbs.; buckwheat, 10 lbs. This costs me \$2.25 per hundred pounds. Is it all right as it stands? I have been feeding a commercial dry mash, but the birds do not like it. Will you please give a good dry mash formula, parts by weight, total not to exceed 100 lbs.?

Brooklyn, N. Y.

E. V. R.

A. The scratch grain is all right; for summer feeding would reduce the corn 10 lbs. and add same quantity of oats. For a dry mash the following will make you a good one and ready mixed will cost between \$1.75 and \$2.00 per hundred pounds: Coarse bran, 25 lbs.; corn meal, 25 lbs.; gluten, 15 lbs.; cut clover or alfalfa, 7 lbs.; low grade flour, 10 lbs.; ground oats, 10 lbs.; fine fish or beef scrap, 8 lbs.

Small Lot Flock.

Q. (1) I want to start with a good utility flock and prefer white eggs, or as near white as possible. Have limited space. Please say which will be best for my purpose, White Rocks, Wyandottes,

dottes, Minorcas or White Leghorns.

A. (1) If you want white eggs, either Black Minorcas or White Leghorns should suit you. The Minorcas will give you a much larger fowl for the home table.

Q. (2) I intend to buy a portable open-front house 10x10 ft., and will have a wire enclosed run 35x45 ft. House will face south and run to south. How many birds can I keep profitably in same?

A. (2) Twenty-five of either of above named breeds. Keep the soil of the yard well cultivated and sow often to rye or oats. Provide shade.

Q. (3) Would you advise getting an electric incubator for this season's hatching? I never used an incubator. What is the best way to get acquainted with operation of one?

A. (3) Unless you have more space available you will not have a great deal opportunity for artificial hatching and rearing. You will find it easier to hatch with hens or to buy day-old chicks or stock for your start. Some electric incubators do excellent work. The best way to learn is to get one and follow the manufacturer's directions. If you do not hatch with hens you will need a good brooder to grow the chicks, or good brood hens.

Q. (4) What is the best way to get started, buy stock, chicks or hatching eggs?

A. (4) All three. In your case we would get some good broody hens nearby and buy both hatching eggs and day-old chicks and rear them with hens.

Q. (5) Name a good book telling a beginner just how to hatch and raise chickens.

Montclair, N. J.

F. H. S.

A. (5) "How to Raise Chicks" by Dr. Woods, which may be obtained of AMERICAN POULTRY JOURNAL book department, postpaid for 75 cents per copy; a cloth bound book of ten chapters in 123 pages and thoroly practical. It tells how to select and mate breeding stock, about foods and feeding, housing, care and management of breeders, selection and care of eggs, incubation natural and artificial, rearing chicks with hens and brooders, chick foods and feeding the chicks, care of growing chicks, prevention of chick diseases. You cannot afford to be without this book if you are starting with poultry.

Weight of Leghorn Pullets.

Q. (1) What should be the weight of S. C. White Leghorn pullets, seven months old, where eggs are the main object?

A. (1) Three to three and one-half pounds each.

Q. (2) What action does air-slaked lime have on droppings, when used on drop board weekly?

Milan, Mich.

J. B.

A. (2) It frees the ammonia. Do not use it. Use ground land plaster (gypsum), dry loam, or dry sand.

Wants Advice on How to Proceed.

Q. With seven acres of land and the necessary equipment for working the same, a flock of 200 choice S. C. White Leghorn pullets, well housed and sufficient building material to increase capacity to 500 head; a brooder house and colony brooder; plenty of "pep" backed by a determination to beat the "blue envelope"; no capital; how shall I proceed to make the best and surest success? My original plan was to double size of flock each year until I had

OWEN FARMS

WHITE LEGHORNS

At the Great Boston Show, 1916

1st and 2nd Cockerel: 1st, 3rd and 6th Pen; 2nd, 3rd and 5th Pullet: 3rd, 5th and 6th Cock; special for best three Cockerels and best three Pullets.

BUFF ORPINGTONS

At Boston, 1916

1st, 3rd and 5th Cock; 2nd and 3rd Hen; 1st Cockerel: 1st, 2nd and 3rd Pullet; 1st and 4th Pen, and all specials. Note—Madison Square 1st and 2nd winning Buffs were not shown at Boston.

S. C. R. I. REDS

At Boston

In best class of the year, won First Collection, Special for best three Cockerels, and best three Pullets, repeating their 1915 winnings at Boston of these same specials. In 1915 they also won 1st Cockerel, 1st Hen and 1st Pen.

White Plymouth Rocks

I am not showing White Rocks anywhere this winter. My sales in this variety have been the largest in the history of the Farms and my customers have won splendidly. The winnings of the flock during years past have well established their ABSOLUTE SUPREMACY and my 1916 Matings will produce birds that will maintain this position.

White Wyandottes

At Chicago, December, 1914

1st and 2nd Cock; 1st, 2nd and 3rd Hen; 1st, 3rd and 5th Cockerel: 1st and 3rd Pullet; 1st and 2nd Old Pen; 1st and 2nd Young Pen; all the Specials, including Best Collection and Shape and Color Specials as well. This was the most complete winning ever made at a National Show and was made in a splendid class of 157 WYANDOTTES. The past show season I have furnished many winning birds to customers and Owen Farms Wyandottes have proved their quality.

Breeding Pens

I have a few excellent cockerels in each variety that are good enough to head your best matings. If your males are not exactly what you wish I can help you strengthen. I still have enough females to spare to mate pairs, trios and pens for you that will breed you superb youngsters and will be put together with all our knowledge of the breeding back of our birds and our skill in producing winners. Write me exactly what you need and let me quote you.

MARCH SPECIAL

I have strong, husky cockerels in every variety but White Rocks at \$5.00, \$7.50 and \$10.00 each; every one a genuine bargain at the price and sure to please you.

Owen Farms Flocks are Established

They are years beyond the experimental stage and have been the foundation blood of most of the really successful breeders in the country. Very few really good flocks exist that do not have more or less Owen Farms blood. My birds have made good for others and will start you on an equal fighting basis and save you many years uphill work. TRY THEM YOURSELF.

UTILITY QUALITIES

Owen Farms birds are famous the country over for size, bone, perfect health, vigor, prepotency and heavy laying qualities. There are no birds that excel them in these important functions and very few flocks anywhere near as good.

Satisfaction Guaranteed Every Customer Every Time

I do not want any customer to keep a bird that does not please him, and any bird I ship can be sent back after a forty-eight hours' rest and the purchase money will be promptly refunded. I will pay the return expressage on males at \$10.00 or more each and on females at \$5.00 or more each.

OWEN FARMS

107 William Street

MAURICE F. DELANO, Proprietor

Vineyard Haven, Massachusetts

FRANK H. DAVEY, Superintendent



reached 2,000 head, which means to raise 400 pullets this coming season. With no income other than that derived from the land and present flock, is my plan practical and will I profit by purchasing an incubator and day-old chicks? Advice from practical people of tried and proved ability will be appreciated.

Milan, Mich.

J. B. Y.


A. Well, there is a question we would like to see answers to. Not more than one hour a day labor should be required to care for the 200 pullets, but a 7-acre farm, properly farmed, and growing not less than 1,000 chicks to get 400 pullets, will keep one man, "with plenty of pep," fairly busy. Two hundred pullets will not bring in enough return to go far toward paying living expenses, to say nothing about the cost of growing 1,000 chicks. We would say, get a chance to "work out" to bring in enough cash to live on and help pay the feed bills; farm the farm to the best advantage that circumstances will permit, and do not try to grow any more chicks than you can grow properly. A small flock well raised is better than a larger flock not well cared for. Devel-

opment and increase of the plant will have to depend upon the ability to earn funds with which to increase. The crops to be grown on the farm will depend upon the market. Would not try to set any fixed rate of increase; just grow as many chicks as you can grow properly and profitably. We know a New England poultry keeper who started with 50 cents in cash, a 40-acre farm, mortgaged to the limit, and a family consisting of a wife and two children. He "worked out" for the neighbors at 25 cents an hour or \$2.00 for an eight-hour day, and worked his own place outside of working hours. It took him five years to get a first-class start and at the end of ten years he owned his farm clear, had a horse and cow, 2,000 head of fowls, two brood sows and a dog; and he was then putting in all of his time on his own farm and his son was working for him part of the time and for the neighbors when opportunity offered. With good health and a determination to win, you ought to make good too. Without capital, and in your circumstances, we would not put money into an incubator just now. You can make your money, that you

earn, go farther by putting it into broody hens for hatching your home eggs, or by getting your eggs hatched by some good incubator operator, or by buying day-old chicks. Later on a good incubator, when you can afford it, would be a good investment. Of course if you have a good market for day-old chicks nearby, you could probably make an incubator pay for itself, if you operate one successfully; but generally you can buy brood hens at a price low enough so that you can use them and get your money back when thru with them. Where the market for day-old chicks is good, during the season when eggs drop to 16 to 20 cents a dozen, a good incubator, well operated, is a paying proposition and 12 cents each for your chicks will pay you much better returns than selling your eggs to market. But before you tackle this proposition you should be sure of your market for chicks and sure also that you can hatch good marketable chicks in profitable numbers.

Crippled After Washing.

Q. I have a valuable S. C. White Leghorn cock that has become suddenly crippled after washing him in prepara-



Hawkins' BARRED PLYM. ROCKS

**The Recognized Champions of America.
Winners at the Greatest Shows.**

Boston, New York, Chicago, World's Fair, San Francisco. The kind you will buy, when you want the best. By careful line breeding over a period of over 30 years, I have produced a strain of Barred Plymouth Rocks that has all the desirable qualities any fancier could wish for. My winnings at the greatest shows in America prove that they have the type and color that is correct. By careful selection this strain has developed utility features possessed by no other flock of Barred Rocks in America.

At Boston, 1915, in competition with the leading Eastern breeders in the best exhibit of Barred Rocks ever seen in Boston, they won 1st and 4th cocks, 1st and 2nd hens, 1st cockerel, 1st cockerel-bred hen and 1st pen, 1st and 3rd pullet-bred cocks, specials for best display, champion male, best colored male and female.

At the World's Fair, San Francisco, 1915, I entered a cock and hen and won 1st hen, 2nd cock, after shipping 3,500 miles.

At Chicago, I made a clean sweep two years in succession, competing with 654 birds, the "Aristocrats" of the West, including best display, champion male and female.

At New York, for 32 years they have won more prizes than any other strain. An entire flock of 21 pullets of this strain averaged 207 eggs in one year, again proving the superiority of my breeding method.

EGGS FOR HATCHING

From the World's Best Matings. 1 setting, \$10.00; 3 settings, \$25.00. Why not get the best? I guarantee satisfaction; write for my catalog of the Champions. It's free.

A. C. HAWKINS

Lock Box 25

CHOICE STOCK FOR SALE

Show birds that will win in any company, and high-class breeders that will improve your flock wonderfully. When you say "Hawkins," people know you mean quality.

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75c

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Chicks

Save the Babies

Reduce Your Loss of Chicks by Feeding Them With a

Simplex "Faultless" Baby Chick Feeder

The greatest contrivance yet invented to take the place of the Cluck in finding food for the little ones; and what's more, they don't have to wait until the hen is successful in finding something for them, neither must they wait for the man with the feed, get weak and lose vitality owing to proper food at the proper time.

The "Faultless" Baby Chick Feeder

is always on the job. It works like a charm, feeds the chicks nice, fresh, clean feed whenever they want it and just enough at a time with just enough exercise to keep them in good condition. Try one now and get more when your chicks start to hatch. Send for our complete catalog and find out about our profit-sharing plan.

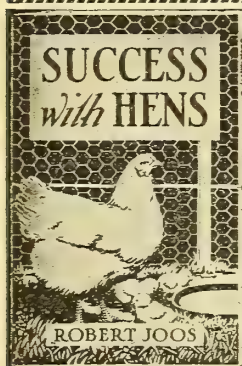
SIMPLEX SUPPLY HOUSE Pontiac Bldg. CHICAGO, ILL.

tion for a show. When I put him down he could not step on one foot and acts as if he had a string attached to it that was pulling it from behind. He kept kicking his foot out behind and when he finally did put it down, it was with great difficulty and he would not bear any weight on it. The toes are stiff and cramped and he does not seem to be able to straighten them out. He never had any trouble before and I thought perhaps he had a strain or dislocation of a joint, but I cannot find any difference in the joints. There is no swelling. He kept fairly quiet in the tub, but might have strained himself. The tubs were in a warm room and water fairly warm, same as used for other birds, and they were all right. His appetite is good and his comb is as red as ever. He crows and seems all right in every other way, but he cannot walk or flap his wings without falling down. Would like to fix him up before trouble becomes worse. Cumberland Center, Me. C. S. B.

A. Without examination of the bird it is not possible to say what is wrong. You may have strained him or injured him internally, or the trouble may not be due to the washing, but simply aggravated by it and due to some disturbance of digestive and nervous system. However, it looks most like injury from squeezing, straining and fright. Rest and quiet, with good, but not too liberal, feeding on a variety of wholesome food is the best treatment. You can rub the leg gently, daily, with oil of cajuput. Do not handle him roughly and keep him off the leg if you can. If you know a nearby physician who is interested in poultry, have him examine the bird for a possible dislocation of hip joint.

Remodeling Barn for Poultry.

Q. I have a barn that was built in 1914 and used for growing squabs. Have sold all pigeons, so barn is now empty. I want to raise chickens and want to do it right, but would like to use the barn. Inside measure of barn is 10 ft. wide, 20 ft. long, 7½ ft. high in front, 6½ ft. high in rear. Has two doors in front, each 3 ft. wide; with two front windows 30 in. square. At back is one sliding window 12x36 in. This barn faces east and is set up on blocks one foot above ground and has a double floor with tar paper between. Would you use it the way it is or remodel it? Would it be all right to take out the



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Strong, Sturdy Chicks

known a machine that hatched such strong, virile chicks as the Queen, and that many of their customers comment on this. Last season they hatched 2500 chicks from Queen machines, selling \$500 worth of them, and no complaints of chicks dying. The Queen seems to start them off with greater vitality—providing the best possible surroundings and conditions of moisture and heat for the chick to make the most of its start in life.



Let Your NEXT
Be a Queen.
Your Money
Back If
Not Satisfied.

Anyone Can Hatch With a Queen

E. G. Collins, Vandalia, Mo., writes Aug. 17, 1915: "I am sending you pictures of my first 2 hatches. The first was 191 chicks out of 195 fertile eggs; thesecond 175 chicks out of 181 fertile eggs. All I have to say is that anyone who knows enough to keep out of the fire can hatch chicks with a Queen. The Queen will hatch chicks while you sleep, as I never get up at night to see how it is running." The Queen is not a cheap incubator, compared with many of the cheaply constructed machines on the market, but it is cheap in the long run. It will be turning out high-percentage hatches years after the cheap machines have been junked. It will be a pleasure to send you our Catalog.

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Insure yourself against disappointment and loss in your hatching. The Gem is the machine either for the beginner or the most experienced.

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None better regardless of price. Big hatches are not the real test. How many chicks live? THAT'S the point.

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The finest pullet shown this season was my first prize pullet at the World's Fair at San Francisco, in competition with the world's best breeders. Eggs from grandest matings in America are ready for you. Catalog Free. S. N. Tremper, Box 729, Sandwich, Illinois

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in six years and not one dissatisfied customer. This is certainly a record in the poultry business. You pay \$2 to \$5 for 15 eggs, we give you 15 strong, healthy chicks of as good or better quality for the same price. We are the Henry Ford of the chicken business. An incubator capacity of over one hundred thousand eggs constantly working to capacity brings down the prices. We sell our "Fay-Streak" White, Brown and Buff Leghorns in 500 and 1,000 lots. Good quality Barred Plymouth Rocks also in large numbers, or as few as 25 if you like. White Plymouth Rocks, S. C. and R. C. R. I. Reds, White Wyandottes, S. C. Black Minorcas, S. C. White and Buff Orpingtons, exhibition and heavy laying strains. Send for handsome catalog; it's free.

The Co-Operative Breeding & Hatching Co. ^{Box A} **Tiro, Ohio**

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and mating list is beautifully illustrated and very interesting. It will tell you all about this Great 20th Century Money-maker. Sent free upon request. The show record of "Premier" Partridge Wyandottes is absolutely unequalled. Stock for sale at reasonable prices. Eggs \$5.00 per setting of 15. Baby Chicks 60c each in lots of not less than ten.

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Write for prices on stock and eggs. Settings and 50 and 100 lots.

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RILEY'S White Wyandottes

Broke all records at the Ohio State Fair, September, 1915, winning six firsts, three seconds and two thirds. The quality of my exhibit was freely commended by both judges and breeders. This, together with my winnings of December, 1914, at the Great Coliseum Poultry Show and Toledo proves their quality as breeders. They are bred to lay with the same care they are bred to win. Why not try the strain that win as well as lay? Eggs from pens headed by my winners at \$3.00 and \$5.00 per 15 eggs. Some nice Cockerels at \$5.00, \$7.50 and \$10.00. Send for catalog.

H. J. RILEY **BOX A** **BRYAN, OHIO**

Howison's Buff Wyandottes

Blue ribbon winners at the World's Fair, Chicago Coliseum, Greater Chicago Show, Quincy and Illinois State Fair, 1915-16. Most consistent winnings of any exhibitor in the West. Five grand mating for 1916. Eggs, \$3.00 to \$10.00 per 15. Utility eggs from same strain, \$5.00 and \$7.50 per 100. Send for mating list.

Charles Howison **Box 20** **Sandwich, Illinois**

front windows and put on fine wire mesh? Our winters here are rather cold and damp. Intend to raise Barred Rocks or White Wyandottes. The front windows are close up to roof. Davenport, Ia. **G. W. E.**

A. We would turn the barn around to face south,—it will not be a very big job if you borrow some jacks and some heavy timbers to block up with. You will not need to remodel it much, except to close those high windows and put a couple of 3x4 ft. openings in front about 2 ft. above floor; cover these with fine mesh wire netting. See that rear window is tight and put a double window over it in winter. Put roosts in rear of building. In mild weather run with doors wide open also. Be sure to white-wash it well and let it dry out before using for poultry. If you have a great many driving snow storms from the south, a screen of cotton cloth on a wooden frame can be used to partly close the openings in front, but do not close them entirely.

Miscellaneous Questions.

Q. (1) What is the matter with a pullet that started to lay, did so for a short time, and egg organs dropped out?

A. (1) Prolapsus of oviduct. Examine for egg bound. If an egg is found in passage, immerse abdomen and vent in warm water for about 15 minutes, then with fingers, well greased with vaseline, try to remove the obstructing egg. After freed from egg grease parts well with vaseline and push them gently back into proper position. Cotton pad and bandage may be applied to hold parts in position. Trouble is liable to recur and treatment, unless applied promptly after accident, is seldom satisfactory.

Q. (2) How many pullets can be raised on a lot 75 ft. square, the cockerels to be moved to other yards when about three months old?

A. (2) About 100 if well cared for.

Q. (3) What is best to plant in yards, in the spring, to give good quick growth of green food?

A. (3) Oats or rye.

Q. (4) Would it do to raise two breeds in same yard, for example: Orpingtons and Campines, if kept together from time hatched, or would one hinder the growth of the other?

A. (4) Don't do it. They will not do well and it will be a serious handicap for both. Grow them in separate yards, or better still grow only one breed.

Q. (5) How many square feet per bird is required in house for small breeding pen of seven to nine birds?

Centerdale, R. I. **G. B. B.**

A. (5) Would prefer to give such a flock a house not less than 6x8 ft. on floor and with convenient head room.

Barred Plymouth Rocks.

Q. I have thirty-four pullets and twenty-five hens of good Barred Plymouth Rocks, exhibition quality, and some good males of same breeding. I have had sent me two fine cockerels of another strain. My friend, a breeder, advises me not to use them on my stock, "or I will spoil all." Is it advisable to mate cockerels with pullets just because I do not wish to risk introduction of foreign blood? I have a 4-year-old cock of the original strain, should I mate him with my best pullets? How would you advise me to mate? I intend to sell eggs from my stock. Would like to know how to proceed, but mating ques-



George H. Rudy, Mattoon, Ill., and his White Wyandottes are known from coast to coast. In fact, they are known wherever White Wyandottes are bred, for he has shipped them almost everywhere. The remarkable record of his old bird "Perfection," winner of fourteen 1sts at fourteen shows, is still fresh in the minds of White Wyandotte fanciers. Mr. Rudy made a fine exhibition at the Greater Chicago Show this year and the picture above of two of his winners shows the fine type of the birds bred by him.—L. A. S.

tions are perplexing to a beginner.
Worden, Ill.

G. J. M.

A. We would not mix the two strains in any flocks from which you intend to sell eggs for hatching. If you have room enough to keep several families, we would mate the new strain males to a few good females and keep the families separate. Get your breeder friend to help you balance up the matings properly. Mate the old cock of original strain with some good well-matured pullets that balance well with him. If cockerels and pullets are well matured you can use them together all right. Make up several foundation family matings and keep the family lines separate, if you hope for good results from Barred Rocks. Mark all eggs for identification and toe-mark and keep a record of all

chicks, so that you know where they come from and can keep family lines straight. From what you say, should judge that you have an excellent foundation to build on and can build at least three good strong family lines. Breeding fowls requires study and a knowledge of the birds. Figuratively, we talk and write of double and single matings; but in actual experience each mating is distinct in itself, or should be, and must be balanced according to the particular needs of the individuals that are included in it. No two individuals are ever exactly alike in all particulars or in breeding qualities; you have to know your fowls and learn to balance matings so that they will "nick" well for best results. Weakness or defects of any kind on one side have to be properly

balanced by strength on the other. For example, we know a breeder of pullet-bred Barred Rocks who has at the present time not less than eight distinct and nicely balanced matings in his yards, and he figures on pretty good and satisfactory results from all of them. Until you begin to see individuality and learn the qualities of each individual in your flocks, you will not have begun to be a successful breeder.

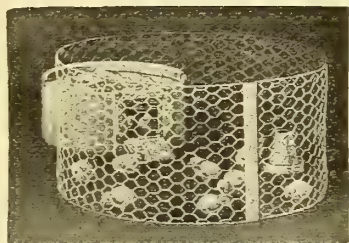
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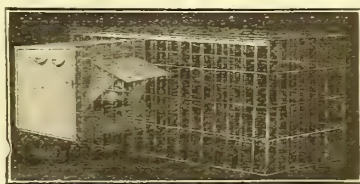
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A view of the main incubator cellar, showing the manufacturing plant above. Note the brooder houses.

It's the Man—Not the Plan

By P. K. White

WE ARE prone to give credit to the plan as being the thing that makes a successful business. But we are all wrong, it is not the plan, it is the man behind the plan that is responsible for the success.

The man who has a well-defined ideal, who hews to the line, who eliminates all deterrent influences, who concentrates his energy on his ideal, who bends his efforts towards the one thing, is pretty sure to accomplish his purpose.

About 22 miles west of Chicago is a little German village composed of thrifty farmers, whose motto is "work and win." To this village came one day a gentleman seeking a location for a poultry plant; he was shown several farms and finally selected one about $3\frac{1}{2}$ miles distant from the village. This happened several years ago.

He proceeded to erect a few buildings, bought the best birds obtainable and set out with a definite plan, a fixed

purpose. He carried the plan out; today he is known from one end of the poultry world to the other, and has made his name a household word wherever good poultry is bred.

Of course he had his ups and downs, the same as we all have, but the one word he knew nothing about and which he refused to think of, was "failure."

He had the courage of his convictions, he knew his plan would be successful, by day he worked to make it a success, at night he dreamed it was successful, in that way he has today made his farm one of the largest poultry plants in the world.

You will say it was the plan that was the secret of his success. You are wrong! It was the man carrying out the plan. Greatness may be thrust on us, success comes by hard work, "it is the man, not the plan."

Here is the story. This man knew that good eggs brought good prices, he

knew those eggs if fertile produced good birds, therefore he set out to produce heavy laying birds, those that would lay winter and summer and yield at least two hundred eggs per bird. He knew that if he could produce birds that would be heavy layers, he would by all rules of nature get a certain percentage of "show birds" from these eggs.

That he had the right idea is shown by the fact that his birds are now known as the 200-egg strain and he has any number of letters showing that eggs and baby chicks which he has sold have turned into ribbon winners in some very large shows, thruout the country.

He has eight varieties, namely S. C. White Orpingtons, Barred Rocks, S. C. Buff Orpingtons, S. C. White Leghorns, White Wyandottes, R. I. Reds, White Rocks, and S. C. Reds. One of his White Rocks was winner of first prize at a Mountain Grove egg laying contest—she laid 281 eggs. This bird he paid \$800.00 for. Later on he purchased another famous bird with a record of 301 eggs. In his way he kept building up, no price is too high for him, provided the bird has a world record as a layer. His White Rocks have records of from 202 to 301, Barred Rocks 200 to 241, S. C. Reds 200 to 243, S. C. White Leghorns 203 to 285, R. C. Reds 203 to 256, White Wyandottes 202 to 256, White Orpingtons 222 to 241, Buff Orpingtons 216 to 232.

The farm consists of thirty acres, situated on a main traveled road, and is one of the sights of the county, on account of the number of buildings and, as you know, there is nothing prettier than a bunch of white fowls roaming around their yards.

On this farm, system is the watchword, both in the office and on the farm. Entering the office, you first see eight large files, a file for each breed. These files contain a card index system, giving the number of each trapped bird and giving the egg yield each day of the year for each bird. These cards (as shown by the illustration) are made up for each day in the week beginning with



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HYGROMETERS

show the slightest change of moisture and save many chicks from drowning or drying in the shell. *Insist on Tycos*—you can depend upon it. Recognized as the standard by the best incubator manufacturers. If your dealer cannot supply you, or will not order for you, write us.

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Tycos Certified incubator Thermometers -	1.00
Tycos Incubator Thermometers - - -	.75
Tycos Electrical Alarm Thermometers -	5.00

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Do business direct with the leading bicycle house in America. **Do not buy** until you know what we can do for you. **WRITE TO US.**

MEAD CYCLE CO., DEPT. M-265 CHICAGO

are customers are to be found. Another large file of twenty-one drawers takes care of all the inquiries and after a sale is made the correspondence is transferred to the customer file.

then, if the sale is made, it is also marked up. In this way he knows just what journals to advertise in and when he finds one that doesn't pay, he takes his ad out.

A great number of his birds are raised right on his farm where they have his personal attention, the rest are raised by nearby farmers. There are about thirty-five farms which he furnishes with eggs and baby chicks, no other fowls are kept on these farms except his birds, those originating from the home plant—in other words, the original blood lines thruout. This plan has been proven by hundreds of breeders as the logical thing to do, as free range chicks in comparative small flocks will produce more vigorous and hardy specimens and are by far the best egg producers.

Forty-one buildings, 5 feet wide and 8 feet deep, are used for breeding pens, each house containing eight females and one male. Of these pens seventy-five per cent are used for housing the best layers, the balance are mated for exhibition purposes only, altho the gentleman himself has never entered a bird for competition.

The main incubator cellar has a capacity of 11,600 and it is a noticeable fact that he is gradually going in for the new sectional incubator — he has one machine of 2,000 capacity and informs me that he has placed an order for three more machines of 4,000 capacity each, one machine to be delivered each year for the coming three years. Placing an order like that one may judge of the future business he is building up.

The auxiliary incubator cellar, 80x28 ft., has a capacity of 9,600, of this

[illegible]

of the year by days and weeks.

Next comes the correspondence file, which is 7 feet long and 4½ feet high; it contains twelve drawers. In these files nothing but letters from those who

All advertising copy is prepared with great care and does not appear in any publication without the proper key number. When the inquiry comes in it is credited to the proper poultry journal;



Backed by 21 Years' Experience and the Strongest Guaranty Ever Written

Here is the incubator that I personally and the entire Des Moines Incubator Company and all its resources stand back of and positively guarantee will hatch *stronger chicks and larger percentages* than any other incubator when operated under the same conditions.

The only machine in the world guaranteed to be cabinet made. The only hatcher that heats around the *colder edges* of the body first. Guaranteed to vary not over a *fraction of one degree* throughout the entire hatch—because of the fact that our own patented lamp and wafer thermostat regulator are 99.910 per cent perfect.

Here is your chance to get an unbeatable quality machine at a sensationally low price. The best offer in all my experience. Write and let me tell you about it.

Give Your Hens Green Feed—Get Winter Eggs
Increase egg yield 50%. Change 1 bushel oats into 3 bushels green, tempting, egg-making food with a

"Successful" Grain Sprouter
Made in All-Steel Sections

Made in All-Steel Sections
Fireproof—double steel walls. Separate sections let you increase capacity as your needs grow. Save one-third on feed cost. Only 15 minutes' attention a day needed. One feeding at noon is enough to increase egg yield. Write today for circular and prices.

Learn all the exclusive features of "Successful" Incubators before you risk a penny on any poultry raising outfit. Write at once and get your hatches started for top-notch profits. Get my big Free Catalog. Read my guaranty—the strongest, broadest guaranty ever put behind any incubator. Remember that I have mighty attractive poultry, too—high-grade stock and eggs of all leading varieties—land and water fowls.

Send in your name today.

Famous little booklet, "Proper Care and Feeding of Chicks, Ducks and Turkeys," sent for 10 cents. Big Catalog is free. Send for it.

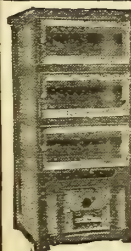
J. S. GILCREST

President and General Manager
Des Moines Incubator Company
1 Second Street Des Moines, Iowa



Poultry Lessons Free

to everyone buying a "Successful" Incubator or Brooder. This complete course has enabled hundreds of poultry raisers to add hundreds of dollars to their yearly income. Real, genuine, down-to-brass-tacks lessons that explain everything in detail—that save you all chance of going wrong. Let Gilcrest, the "Successful" man, start you right—keep you going right—and help you cash in on the profits this season that you hope to make, can make and deserve to make raising chickens if you start right. Just write Gilcrest a postal today.



amount 6,000 is the new sectional. Adjoining this building is the manufacturing building, where shipping coops are made, and the cartons for chicks and eggs assembled. This building is 28x10 feet.

There are two brooder houses. Number one is 155x16 ft. and has a capacity of 2,200 chicks. Number two is 135x16 ft. with a like capacity.

The room above the incubator cellar is used for manufacturing feather brooders and trap nests. Here is a feat-

the birds have completed their trap nest record, as this article goes to press.

There is even a room set aside for oat sprouters, so that his birds may at all times have green food, for his motto is, nothing too good for the birds.

FEEDING AND CARE OF HOUSES.

The morning meal consists of one part cracked corn and two parts wheat, thrown in a deep litter to induce exercise. At all times, they have before them hoppers of dry mash, composed of equal

with but three. What does it mean? It means he is giving his customer a dollar's worth of value for every dollar received, otherwise his business would never have grown to such magnitude.

All stock that does not live up to the demands made upon it—for egg production or exhibition—is sold (dressed) to fine trade in Chicago, where the demand far exceeds the supply. These people, knowing his plant and birds, are very willing to pay four and five cents a pound above market price.



A view of trap nests, showing them both open and closed.

ure that others would do well to adopt. All feeders, grit boxes, fountains, trap nests and brooders are manufactured right on the farm and in most cases they are the owner's own invention.

Next comes the grainery. This building 20x30 ft., it has a grinder, mixer and straw cutter, all run by a gasoline engine. He buys all his grain from nearby farmers, does his own mixing and in this way he figures that he saves about seventy-five dollars a month on his feed bill.

Now for a trip to the colony houses. There are forty of them, size 5x8 ft. It is in these houses that he places the chicks after they have outgrown the brooder houses.

Of course, he is always trying out new ideas, as a year ago he invented what he calls his "fresh air type" house. To fully appreciate it, you must see it, for with this house the birds get all the fresh air they want, without experiencing the outside temperature. Each of these houses contain twenty-five birds and there are a total of 41 of them, size 5x10 ft. There are eight of these "fresh air type" houses, size 8x16 ft., in which the birds began their trap nest record on January 1, 1916.

Next we come to eighteen more of these "fresh air type" houses, size 14x20 ft., with a capacity of seventy-five birds to each house. In eight of these houses

parts of wheat middlings, oatmeal, bran and meal alfalfa, together with some beef scraps. At noon they are given a liberal supply of sprouted oats. At night a mixture of one part whole wheat and two parts cracked corn. Fresh green bone is given twice a week.

If ever a man believed in "Cleanliness being next to Godliness" as pertaining to a poultry plant, then here is the man. I have visited a number of poultry plants this year and can truthfully say that this farm is as "spick and span" as it is possible to keep it. Dropping boards are cleaned every morning and all houses thoroly cleaned once a week. How some breeders expect their birds to keep healthy with the "filth" that is left around, is more than I can see, yet if one was to tell them that their pens were dirty they would become highly insulted.

All in all, there are 114 buildings—think it over, friend reader, he started

The same is true with his eggs. Since the advent of parcel post, he has no trouble in disposing of all surplus eggs to Chicago trade at ten and twelve cents a dozen above market price.

Now, reader, if it is possible for you to get away for a few hours, go and see this plant. You will say it is a wonder and will come away from there very glad to think I have called your attention to it.

If you do go I want you to especially ask to see the wonderful trap nest that this gentleman has invented. Just a simple little affair, but it does the work, that's what makes it so wonderful.

By the way, don't go there at night, for Mr. Poorman has five watchmen in the shape of Airdale Terriers.

Oh, gee! I let the cat out of the bag, I didn't intend to tell you who I was writing about, but here goes—it is John G. Poorman, Tinley Park, Ill.



Fresh air type house. Note the openings above and below the windows.

Save The Chicks

The slightest mistake in the chick's first food means a dead chick, or a stunted chick not worth raising.

F. P. C. CHICK MANNA

Standard since 1884

A complete food that will positively bring Chicks, Turkeys and Pheasants through the first 10 days, healthy, hearty and scratching. Ask your dealer for it, or write direct for offer of trial package by Parcel Post. Circulars of F. P. C. Foods and Supplies sent FREE. Satisfaction or money back.

F. P. CASSEL & SON
Lansdale, Pa.
A-9 Main St.

NEUBERT'S BOOK FREE.

Finest, Biggest, Most Valuable Poultry Guide. 62 BREEDS. Chickens, ducks, geese, turkeys. Hardy, pure bred, beautiful. Fowls, eggs, incubators at low prices. America's Pioneer poultry farm. 22 years at it. BOOK and Catalog FREE. F. A. NEUBERT, Box 675 Mankato, Minn.

Readers Experience Department

Egg Production Cost in California.

AFTER assisting in the work of closing the gates of China and the 10 cents per dozen eggs, will you please ask Mr. Harker, of the *Pacific Fanciers' Monthly* to let me know in what part of my glorious state he kept a flock of poultry where eggs could be produced for 10 cents, or even 15 cents a dozen for thirty days continuously. I will not have time to go to see how it is done this Winter, but will select March, as I think then I might see something—and I might not. Anyway, after being in

order to keep in the business and get a little return for my investment and labor.

I want to say a good word for the A. P. J., the only poultry paper I ever read that gives a fellow something to think and study about.

Sacramento, Cal.

L. ESKRIDGE.

Net Cost of Eggs.

Your editorial "Net Cost of Eggs" in the November number of AMERICAN POULTRY JOURNAL has caused a number of students in the poultry department of the De Hirsh Agricultural School to in-

eggs occupies the mind of everyone who is interested in poultry. From time to time articles discussing the productive cost of eggs appear in the poultry press. The figures given vary greatly, from 10 to 25 cents per dozen.

"It was therefore part of the work of our Poultry Seniors to clear up this point, from their own actual experience.

"Herewith are given figures by one of the Poultry Seniors, taking a small flock of 250 fowls as a basis.

"Investment:

Land, one acre.....	\$ 35.00
Fowls, 125 hens, 125 pullets, at \$1.25.....	312.50
Hen house, 20x50 ft.....	250.00
	<hr/> \$597.50

"Expense:

Taxes on land 1 per cent.....	\$.35
Insurance, 2 per cent on \$250.....	5.00
Interest on money invested 4 per cent.....	23.90
Depreciation on building, 5 per cent.....	12.50
Depreciation on fowls, 25 per cent.....	78.12
Feeding 250 fowls at \$1.50 per year.....	375.00
Labor, 365 hours at 20 cents.....	73.00
	<hr/> \$567.87

"Average production per hen per year, 10 dozen.

Cost per dozen = $\frac{\$567.87}{10} = 22.7c$.

2500 doz.

"The average cost of producing a dozen eggs, as figured out by 12 specialists, is 22.1 cents."

Barnet Rabkin,

Instructor in Poultry Husbandry.
Woodbine, N. J.

Immature Breeding Stock the Cause.

In recent poultry literature there has been a great deal said about the "small round egg" of the Wyandottes at some Experiment Station. This talk is almost too ridiculous to be funny and can have no serious effect on the Wyandottes, altho breeders everywhere are closely watching the reports from the Experiment Stations. However, Wyandottes are "known by their works," and where the experimentors got hold of the freaks with the "little round eggs," it would be interesting to know. I have been breeding Golden Wyandottes for a good many years and have bought birds and eggs of the variety from various sources but I have yet to discover any of those "small round eggs" from my own or other flocks, tho I have handled countless cases of pure Wyandotte eggs.

Most of the comments I have noticed from the Wyandotte breeders on this subject has been to the effect that the



NINE THOUSAND DAY-OLD CHICKS IN ONE SHIPMENT.

The above picture shows 9,000 "Better Hatched" chicks being sent out by express from the plant of the Co-Operative Breeding and Hatching Co., Box A, Tiro, Ohio. This shipment represented less than one-half of the hatch that was taken off that day. Note the perfect ventilation between the boxes.

this poultry game for the past twenty years for a living, I would like to be shown where I have been making such a big mistake, as I find I need, at the lowest, about 25 cents per dozen in the Spring, and all the high prices I can possibly get in the Winter months, in

investigate the cost of egg production. The following clipping from the *H. A. S. Record* may prove of some interest to readers of the AMERICAN POULTRY JOURNAL:

THE COST OF PRODUCING ONE DOZEN EGGS.

"The question of the cost of producing



MINORCAS

Eggs for Hatching

Breeding Stock

Exhibition Stock

Guaranteed

Send for our
large catalog

G. A. CLARK

-

Seymour, Indiana

The Uhl Hatchery

Largest Baby Chick Hatchery in America **ABOUT 40,000 CHICKS PER WEEK**—Our Sixteenth Season



If you want the best there is in Baby Chicks, for show or utility, we can supply you at the most reasonable prices—Barred, White and Buff Rocks; Rose and Single Comb Reds; White, Silver and Buff Wyandottes; Buff and White Orpingtons; S. C. and R. C. White Leghorns; S. C. and R. C. Brown Leghorns; S. C. Buff Leghorns; Mottled Anconas; S. C. Black Minorcas; W. F. Black Spanish, and Light Brahmas.

A SATISFIED CUSTOMER.

M. Uhl & Co.—From the 50 baby chicks bought from you I won seven prizes and a handsome silver loving cup for best display on an entry of thirteen of your birds; 2nd and 3rd cockerel; 2nd, 3rd and 4th pullets; cockerel 2nd pen, and four pullets 3rd pen. I am highly pleased to recommend your concern for this high quality and the fairness shown me. Respectfully yours,

P. M. GRIFFIN, 610 Poplar St., Ft. Wayne, Ind.

Be Sure to Get Our Catalog

M. UHL & COMPANY, New Washington, Ohio

Pape's Single Comb BLACK MINORCAS

THEY ARE ACKNOWLEDGED

Most Marvelous Producers of Large White Eggs

Most Profitable to Grow

Most Agreeable to Tend. Most Delicious to Eat

They have been bred 21 consecutive years for egg production, majestic beauty, and likewise for health, hardiness and resistibility in all climates. Am offering cockerels that will improve any flock; hens and pullets laying; mated pens on approval. Eggs guaranteed to hatch and chicks at introductory prices. Catalog (contains season's winnings and matings) and assistance are free. Write your requirements.

CHARLES G. PAPE, Box B-74, Fort Wayne, Indiana



Forest Hill
Poultry Yards

Quality White Plymouth Rocks

Eggs, Fertile Eggs. 100 Per Cent Fertility Guaranteed.

Pens 1 and 2, extra good exhibition birds; eggs, 50 cents each. Pens 3 and 4, good exhibition birds; eggs, \$5.00 for 15, \$8.00 for 30. Pens 5, 6, 7 and 8, exhibition birds; eggs, \$3.00 for 15, \$5.00 for 30. You cannot buy eggs from any better stock at the above prices anywhere. All unfertile eggs replaced free if they are returned express prepaid within 15 days from receipt of them. Our birds have been prize winners at the leading shows for ourselves and customers. Order direct from this advertisement and save time. Mating list free. Send your order now—don't delay. Address

ALBERT G. SPAHR

Box 1240

XENIA, OHIO

Tarbox's Silver Wyandottes

Winners at the World's Greatest Show, Panama-Pacific Exposition. We made 9 entries and placed them all. Winning one-half of the regular prize money, also \$20.00 special for best Cock, Hen, Cockerel and Pullet.

EGGS

EGGS

EGGS

EGGS

For the first time in about 15 years we have decided to put eggs for hatching on the market and will sell a limited number of settings from our best pens. Send for mating list. Stock for sale at all times. Don't fail to get our prices on same before buying. Send for catalog giving full list of winnings for season.

A. & E. TARBOX

Box A

YORKVILLE, ILLINOIS

Innijiska White Rocks Win Again

Have established wonderful records at Illinois State Show and others. Nearly a clean sweep at De Kalb, Ill., this year, winning nearly every prize and best display. Eggs, \$3.00 and \$5.00 per 15. Satisfaction guaranteed.

S. A. TYLER,

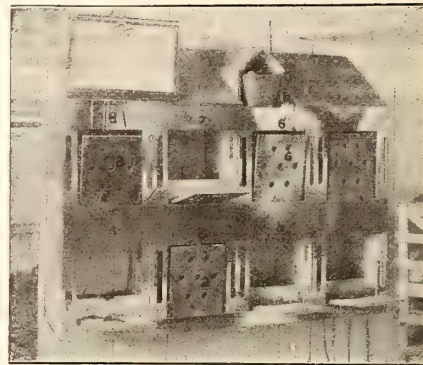
West Lincoln Highway,

De Kalb, Ill.

small egg was the result of too close inbreeding. This may be true in the case of the beginner and the "beginner" will include many who have been raising poultry for years.

I believe there is a reason far more important than inbreeding and that is the common practice of breeding from immature stock. The beginner, at least has no business with a pullet or cockerel in his breeding yards. But every year, everywhere, breeding pens are made up of cockerels and pullets undersized and underdeveloped in every way. Eggs from these matings are set and the chicks when raised are again placed in the breeding pens before they are developed sufficiently for the purpose. The results are disastrous and need not be detailed, but "little round eggs" is one of them.

The experienced breeder, of course, avoids breeding from immature stock for his own good, even tho he may have no thought for the breed itself. If every



Parks' Trap Nest, invented 1908, by J. R. Parks, Altoona, Pa.

poultry raiser could be made to understand what a breeding pen should be and these few first principles of breeding carried out it would be a great day for the poultry industry.

Personally I would rather use in my breeding pens a cock that happened to be under weight, but which had descended from a line of mature ancestors than to use one over weight from a line of immature ancestors, because the result of the immaturity would show up in an unfavorable development of the chick and its product.

In purchasing eggs for hatching it is a wise plan to make sure they are from mature stock, or if stock is bought for immediate use, cocks and hens should be purchased. Use the eggs for breakfast from pullets and you will never be troubled with "little round eggs."

D OSCAR MEAD.

Pinckneyville, Ill.

Profit from Flock of Wyandottes.

Perhaps the following record made by a pen of thirteen White Wyandottes may help to convince some of the skeptics and encourage the beginner.

The table shows the actual receipts for hatching eggs, but I do not give the hens credit for the eggs set and eaten at home. The number of eggs laid by

To get rid of rats get

RID-OF-RATS



Non-Poisonous. Guaranteed to destroy the rat and mouse pest from corner bins, poultry houses, stables, etc.—No results, no pay. Box 10c; Doz. boxes \$1 east of Miss.; \$1.20 west of Miss. If your dealer can't supply you order direct. Write for catalog, it tells the story. Berg & Beards Mfg. Co., 61 Fleet Pl., B'klyn., N. Y.



Rochester, May 24th, 1915.

U. R. Fishel, Hope, Ind.:

The setting of fifteen eggs received in perfect condition. We have twelve strong, healthy chickens; one egg was broken soon after we set them. We are very much pleased with the hatch, and wish we had ordered more eggs and hope to do so another year. Thank you very much for the literature.

Respectfully,

Mrs. Charles S. Parker.

—, N. H., April 21st, 1915.

U. R. Fishel, Hope, Ind.

Dear Sir—Twelve good chicks from fifteen of U. R. Fishel's best eggs,

Respectfully,

John Currier.

—, Ia., November 14th, 1915.

U. R. Fishel, Hope, Ind.

Dear Sir—Have the finest lot of pullets and cockerels from your eggs. The finest flock of White Rocks in this vicinity. Have one cockerel that will be hard to beat. I beg to remain,

A satisfied customer,

Carl Braun.

—, Minn., December 22nd, 1915.

U. R. Fishel, Hope, Ind.

Dear Sir—I am writing you in regard to a cock bird. I will need one to mate with my pullets I raised from the eggs bought of you last spring. I am very well pleased with them. At our local show I won all prizes on pullets, 3rd cockerel. The judge said our birds were as good as any in the state. Now what I want is a cock bird hatched in the spring of 1914, good in all points, with good length back and rich yellow legs.

Yours truly,

Roy G. Dibble.

—, Neb., June 26th, 1915.

U. R. Fishel, Hope, Ind.

Dear Sir—Received the sitting of eggs May 30th, set them 31st, have 10 nice chix. Think I would have had twelve had I used a little judgment. I am sure pleased with the results. I have nearly 200 chicks from the cockerel I bought of you last fall. I am sure pleased with all the stuff I have bought of you and wish to thank you very much. You will sure get any orders I may have for White Plymouth Rocks.

Yours very respectfully,

J. H. Stoddard.

T—sa, Okla., September 26th, 1915.

U. R. Fishel, Hope, Ind.

Dear Sir—You ask that I report results of hatch from eggs received from you last spring. I got fifty-five chicks from 100 Sale Stock eggs. We have had a county fair and I exhibited a pen of White Rocks. I got 2nd on pen, 1st on hen, 2nd on hen and 3rd on hen. 2nd on male two years old, hatched from eggs received of you 1913. Kindly quote prices on males this season.

Yours very truly,

Mrs. Anna Berryman.

—, Ohio, August 4th, 1915.

U. R. Fishel, Hope, Ind.

Dear Sir—I am pleased to write you, twenty-five of the thirty eggs were fertile and twenty-two hatched lively chicks. I think this fine hatch due to the good shape the eggs were packed.

Yours truly,

Mrs. C. A. Spafford.

—, Mich., November 26th, 1915.

U. R. Fishel, Hope, Ind.

Dear Mr. Fishel—Can you supply me with between 1,500 and 2,000 hatching eggs from your Sale Stock, making two shipments of same, the first shipment about January 15th and the second thirty days later, and at what price? You can see by this that I am well pleased with birds hatched from eggs supplied by you. They sure are dandies and I just love them—want to be with them all the time. I believe I have a record breaker in my first pen; she started to lay September 26th (age 6 months) and has only missed nine days since that time. In other words, she has laid 53 eggs since the 26th of September and three days of that time she spent at the county fair. My birds were awarded 1st and 2nd pullet, 1st and 2nd cockerel and 1st and 2nd pen. The Fair people have only given me credit for four prizes and I cannot get things straightened with them. Hemenway was judge, and as soon as he returns from the West I am going to see if he can't get all that is coming to the birds. Please let me hear from you at an early date regarding the eggs and greatly oblige,

Yours very truly,

H. C. Streeter.

Eggs that hatch

is what you want when you place your order for eggs for hatching. You do not want to fool away three weeks time, and your money also, for eggs that only give you two or three chicks out of fifteen eggs.

U. R. Fishel's White ^{Ply-}mouth Rocks

are reared and bred under conditions that insure Eggs that Hatch. Each and every breeding yard has free range, so to speak. No bare ground small yards at "Fishelton." We get as close to nature as possible and therefore, chicks hatched from Eggs, or Baby Chicks shipped from "Fishelton" are

chicks that live

and grow, and mature into birds worth while. *I guarantee my mated yard eggs*, something no other White Rock breeder has ever dared to do. *WHY?* Don't place your order until you see my *1916 Mating List. It is Free. Send for a copy.* Do you want *Selected Breeders or Utility Fowls?* If so, I have *over 2000 to select from.* Our Matings this season are the choicest I have ever owned. *Mating List Free. Send for a copy.* When you buy White Plymouth Rocks, buy the BEST. Bred in line for over twenty years. Write me your wants please.

Eggs

From \$3.00 to \$25.00 per 15.

Sale Fowl Eggs

\$10.00 per 100; \$6.00 per 50.

Baby Chicks

\$25.00 per 100; \$15.00 per 50;
\$8.00 per 25.

U. R. FISHEL Box A HOPE, IND.

BOTTLED DOLLARS

"OCULUM," the celebrated NEW DISCOVERY, which has stood a United States Government test at Washington, D. C., is making the poultry business a veritable "GOLD MINE."

D. B. McNeill, Cunningham, W. Va., increased his eggs from 20 to 300 a day in 3 weeks by using "OCULUM"—SOME EGGS!

F. B. Hood, Somerset, Mass., raised a 11-lb. R. I. Red cockerel with "OCULUM"—SOME MEAT!

H. S. Wetzler, Mgr., Successful Poultry Journal, Chicago, took 32 chicks—on half he USED "OCULUM" and raised ALL; on the other half he did not use "OCULUM" and lost 14 out of the 16 with White Diarrhoea—SOME REMEDY!

A drop a day IN THE FEED—That's all.
Sample 10c (240 doses). Booklet free.

H. I. COMPANY, Inc.,

Box B,

SALEM, VA.



2nd Cock, 1st Cockerel and 1st Pen Cockerel at Madison Square Garden, January, 1916

BLACK LANGSHANS

We won at Madison Square Garden, N. Y., December 31st, 1915, to January 5th, 1916. 1st, 2nd and 5th on cocks; 1st, 3rd, 4th and 5th on hens; 1st, 2nd and 4th on cockerels; 2nd and 4th on pullets; 1st and 2nd pens. Also, at Indianapolis, January 10th to 15th, 1916, (The National Langshan Club Show), with another and different string of birds, I won five firsts, one second, one third and a lot of specials.

It Will Pay You to Get My Strain.

My customers are winning with my strain everywhere, and I will continue to take care of you. Was never better prepared in numbers and quality than right now. They will give you eggs, prizes and satisfaction. Eggs from choicest New York winners, also from utility flocks. Mating list and catalog free. Satisfaction always.

M. S. BARKER, R. F. D. 1, Thorntown, Ind.

First New York Cockerel

(Madison Square Garden), 1st cock and 1st pen male, 1915; 1st cock, 1st cockerel, 1st pen male, Boston, 1914; 1st and 2nd pen males and 2nd cock, Boston, 1915, will head some of our pens of

White Wyandottes

this season. Eggs from ten pens headed by Boston and New York Winners,

\$5.00 Per 15

At Detroit, 1916, we won 1st White Wyandotte cock, 1st hen, 1st cockerel, 1st pullet, 1st pen on five entries, and all open specials, including best cockerel in American classes, while on four entries our

Light Brahmas Won

1st cock, 1st hen, 1st cockerel, 1st pullet and all specials. EGGS, \$5 PER 15.

SAUNDERS & WILLIAMS, Box A, Ingersoll, Ont., Can.



WILLIAM THE CONQUEROR
One of Our Prize Winners

TENACRE

S. C. WHITE LEGHORNS

Exhibition and utility — book your orders early for Hatching Eggs and Baby Chicks.

WRITE FOR
CATALOG and
MATING LIST

Tenacre Poultry Farm
R. F. D. No. 3, PRINCETON, N. J.

HURRAH! DAVIS WINS at Chicago, 1916

FIRST PRIZE PULLET S. C. R. I. REDS

Defeating 27 of the best pullets, all my competitors could possibly produce. Also won in both the cock and cockerel classes. Eggs from four grand pens, \$5.00 for 15. Write for mating list.

M. C. DAVIS,

Haywood Road

WOODSTOCK, ILL.

BUFF ORPINGTONS, CHICAGO WINNERS

My birds have made wonderful wins at Chicago, Elgin and other Mid-West shows. They have that wonderful, soft, even shade of buff, and are true Orpingtons in every way. Wonderful pens now mated. Eggs and stock for sale. Have hundreds of satisfied customers everywhere. Write today.

H. SCHERRUBLE

ELGIN, ILL.

100,000 S. C. WHITE LEGHORN Hatching Eggs

For 1916—Fertility Guaranteed 90 Per Cent

\$1.50 per 15 Eggs,

\$5.00 per 100 Eggs,

\$50.00 per 1000 Eggs.

Roberts Poultry Farm

Grandville, Mich.

the flock is not large, owing to the fact that these were breeders and were not forced for egg production. The hens were three and four years old. Three of them hatched and reared broods of chicks and six of them were sold in July.

Hatching eggs sold.....	\$32.00
Dressed broilers sold.....	19.75
30 doz. eggs marketed.....	7.50
17 pullets raised.....	17.00
3 cockerels raised.....	3.00

Total\$79.00

Food cost.....\$13.00

Int. on housing at 6 per cent, advertising.....10.00

Total\$28.00

Profit\$51.00

Wexford, Pa.

Albert E. Hartung.

Combining Utility and Exhibition.

In your December issue, page 1467, E. R. Wells tells how fowls may be bred for both utility and exhibition purposes with some degree of success.



Rose Comb R. I. Red cockerel, bred and owned by W. A. McConnell, Richmond, Ill. This picture shows to good advantage the fine quality of Reds to be found in Mr. McConnell's yards.—F. D. R.

His plan briefly outlined, is to select good laying stock of solid color, preferably white. Breed them for a series of years with an eye to egg production. Then from 1,500 birds, select 100 with an eye to Standard requirements. From the progeny of this 100, select 12 for exhibition, with what success he does not state.

This is no doubt thoroly practical and violates no biological law but is a vastly different proposition from breeding simultaneously and with one or more matings for both egg production and Standard requirements, and achieving satisfactory results.

It is almost an axiom in breeding that the more characters aimed at in a mating, the less chance, in geometrical ratio, of securing any one of them. Consequently, if it takes from two to four matings to secure winning show birds. What chance is there at the same time

Deem's ARISTOCRAT BUCKEYES

They always win for us, they will do the same for you. First at Chicago Coliseum, Madison Square Garden and Boston, 1916. Write us today for Mating List. Hatching eggs charges prepaid.

BUCKEYE POULTRY YARDS, EATON, OHIO

to breed a 200 egg pullet as the direct result of an intention to do so?

As you say in an editorial we appear to have always had the 300 egg hen, but didn't know it, and by inference our 200 egg strains, so-called, are individual birds selected by a systematic use of trap-nests.

We, however, do know by actual test that a pen of females with high egg records properly mated, will produce more 200 egg pullets than a similar pen with low records. We also know by experience that, one or more hens each with an egg record of 240 when mated to a male whose mother had a record of 240, no matter how long that line of breeding may have been followed, will produce pullets with all sorts of records, other than 240.

If we produce a pullet that makes a record of 260, from 240 records on both sides, we don't know how it was done and cannot repeat the results with the same parents with any degree of certainty.

It is a debatable question whether we are able, at all, by any means at our command, to actually increase egg production.

To modify shades of color and markings by judicious mating is comparatively easy because we are dealing with visible characters and can estimate results before mating, but we cannot increase the quantity of feathers, or legs, or eyes, or combs. Can we increase the quantity of eggs?

If the above observations are anywhere nearly correct, it follows that there are no real grounds for jealousy between the two systems of breeding. It would probably be wise for breeders of the "Fancy" to use trap-nests, which some of them appear to be afraid of and ridicule. They might make some progress in that way in isolating their best layers, which they could if marked just right, use in the breeding pens.

It would probably be wise for the breeders who select for egg production to abandon the word "utility," which seems to be in disrepute in some quarters and substitute the term "egg record" as more comprehensive and definite in its meaning.

This would differentiate the two lines of breeding, so there would be no earthly excuse for either to tread on the other's toes.

Personally I am thoroly convinced that no satisfactory progress can be made in egg production except under the single mating system which is not practical in breeding exhibition stock under the present Standard.

C. B. ALLAIRE.

San Antonio, N. M.

Likes the Score Card.

Have enjoyed the discussion relative to score card and comparison shows and think many excellent points have been brought out in favor of the score card. For the beginner it is invaluable to know just what his stock scores. Most judges come within one-fourth of a point of each other in scoring a bird, for I have compared the judging of different score card shows and the decisions of the different judges were within one-fourth point of each other.

I remember my first showing some years ago when I was gloriously beaten, but I had a score record of from 92 to 93½ on my birds and the year following I broke into the winning column. But that was my best lesson, that first

THE "COLLINS" IS THE BEST OATS SPROUTER

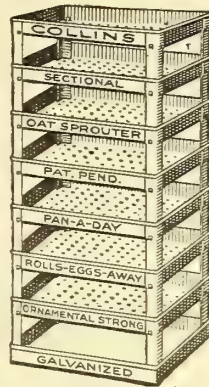
AND IT'S THE CHEAPEST

You readers of the Am. Poultry Journal know as well as I do that it's essential to feed green food to

Make Your Hens **HEAVY** Winter Layers

And To Provide Green Food for Chicks

\$3



You also know that in the form of sprouted oats you can furnish your hens what they need in the way of fresh, tasty, sweet and wholesome green food, and protein, at **Less Cost** than in any other form.

The only point in which you are interested is in knowing which is the most practical, sensible, workable, convenient and satisfactory sprouter. It's the "COLLINS"—made in units, eight individual pans of galvanized steel, 11 x 15 inches, a pan for each day of the week, and a drip pan. These pans fit ingeniously one on top of the other, doing away with the usual frame or stand. The pans are properly perforated to furnish exact amount of drainage to insure sprouting of practically every fertile oat, and to eliminate souring and rotting, and give a more uniform, prolific growth.

For \$3.00 I deliver The Collins Sprouter anywhere east of the Mississippi River, Express or Parcel Post charges paid by me. West of the Mississippi, \$3.50.

Try it ten days, and if it isn't satisfactory ship it back, and I will refund your money. Illustrated descriptive booklet free for writing.

We could use a few good agents. Write for territory.

Before buying, get my prices on Celluloid Leg Bands, Egg Testers, electric and oil lamps. Egg Cases complete, lots of 50 and up 6c each; 10 at 8c. Flats, and Fillers, 12 complete sets 45c. Egg Cartons, Seals, etc.

W. H. COLLINS,

336-P Washington Street

NEW YORK



Foxhurst Champion BLACK ORPINGTONS Again Sweep to Victory

At America's Greatest Show, Madison Square Garden, New York December 31, 1915 to January 5, 1916; winning

Cock	Hen	Cockerel	Pullet	Pen
1	1	1	1	1
2	2	2	2	
3	3	3	3	All Gold and Silver
4	4	4	4	Specials
		5	5	

Repeating our equally marvelous wins of the past 8 years. At Pittsburgh, Pa. January 22d, 1916, we won, Cocks, 1, 2, 3; Hens, 1, 2, 4; Cockerels, 1, 2, 3, 4; Pullets, 1, 2, 3, 4; First Old Pen, First Young Pen. Our customers are sweeping all shows, large and small, from coast to coast, as hundreds of testimonials prove. Exhibition and Breeding Birds for sale at prices within the reach of all. Stock shipped on a money-back guarantee. Eggs in season. Send for Mating list.

FOXHURST FARM, Lime Rock, Conn.



Andrews' White Wyandottes

Great Win at Boston, 1916

in one of the largest and best classes ever shown—win 1st and 5th Cock, 1st and 2d Hen, 1st and 4th Cockerel, 2d, 3d and 6th Pullet, 1st Pen, Best Display. They have also won at Boston every year for 18 years. Buy your eggs from a strain that has been bred right and has utility value combined with fancy. Cockerels, Trios and Pens for sale. Send for Mating List. Eggs from Prize Matings.

J. W. ANDREWS

Box A

Dighton, Massachusetts

Single Comb White Leghorns

TRAP-NESTED

"Satisfaction Always"

RANGE RAISED

Memphis Tri-State Show, 1914—356 in class, won 2, 3 Cock; 1, 2 Hen; 4 Cockerel; 1, 2, 3 Pullet; 3, 5 Pen; Best Display. Again in 1915, 215 in class, won more prizes than any other breeder in class, and Best Display.

A little BABY CHICK history: One customer got 600 Chicks April 10, 1915. Raised 225 pullets. Weight at 5 mos. 10 days, 3 lbs. to 3½ lbs. Egg-yield in October, 30%; in November more than 40%. Repeat order for 700 chicks to be shipped April 1, 1916. Another customer got 75 chicks. Raised 41 pullets. "They beat anything laying I ever saw. Frequently this winter got 36 eggs a day, several times 38, and even 40. Bought some higher priced stock elsewhere, but did not have near the success I got from yours." Other similar reports in free Catalog and Mating List.

Sixth Year. Largest Farm in State. Completely Equipped.

Fourche Mountain Poultry Farm

CUMMINS RATCLIFFE, Owner
City Office, 719 Southern Trust Bldg.

Little Rock, Ark.

LANGE'S BUFF WYANDOTTES

The kind that Win, Lay and Pay. Out of 30 entries, at Michigan State Fair, Lansing and Detroit, Mich. they won 10 firsts, 6 seconds, 7 thirds, 2 fourths, 2 fifths, 4 specials and 15 silver cups. Cocks, Cockerels, Hens and Pullets for sale at low prices. Eggs, \$2.00 for 15, and \$5.00 for 45. Satisfaction guaranteed. J. G. Lange, 1187 Scotten Ave., Detroit, Mich.

show, tho I have since showed in many and larger shows.

By the score card system we have the opinion of a judge in black and white, the defects plainly pointed out. The work takes more careful consideration and most of the judges are opposed to it and you cannot blame them. The work is not easy and criticism is their reward in many cases. The small score card shows are certainly feeders for the larger shows. Make these small shows, score card shows and they will boom again where they have hardly paid ex-

penses during the past few years.

Bridgeport, Mich. VALENTINE PETZOLD.

More About Egg Costs.

Have been much interested in the discussion of the "Cost of Producing Eggs," and while I am not an expert poultryman, I am familiar with the how to get cost figures, as I served for twenty years as clerk of costs for large firms, but now have a little farm of my own, which is slowly growing.

In my study of the various figures

submitted by many people and published in the various poultry and farm papers, most of them seem to call anything profit. They fail to charge up a reasonable wage. What manufacturer would do so? If they fail to charge labor, the figures generally shown should be styled "Labor Income" not "Total Profit."

So when the people who have not had the necessary training to figure up costs, look at such a report, they are amazed at the profits and want to go into business. A great many fail, as we all know. Again, the so-called expert make

E. B. Thompson's Imperial Ringlet Barred Plymouth Rocks

At the Premier Show of All the World

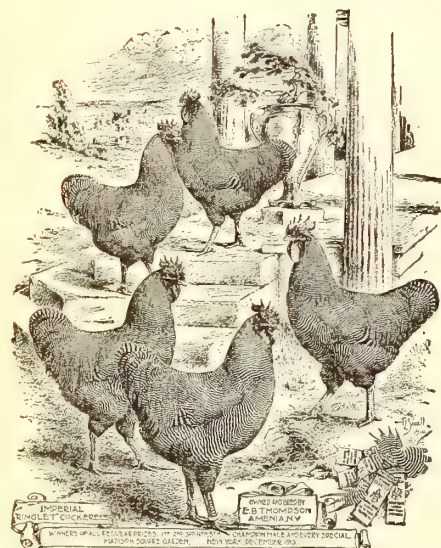
Madison Square Garden, New York

Dec. 31, 1915—Jan. 5, 1916

set a new and supreme standard of winning with a performance record never approached—this record shatters all traditions. (See Back Cover Page.)

The test of quality is the show room and the Supreme Test is Madison Square Garden. It is at this show—and this show only—that the best Barred Rocks in America are exhibited. The Imperial "Ringlets" have an unbroken calendar of successive victories at New York for more than a quarter of a century, winning more than 3 times as many 1st Prizes as any competitor—mark this fact.

Their record the last four years in succession, 1913, 1914, 1915, 1916, is the climax of these unprecedented victories.



The five Cockerels winning Champion Male and all the Ribbons on Cockerels, viz: 1st, 2d, 3d, 4th and 5th Prizes, at Madison Square Garden, New York.

Winning three times as many First Prizes as all competitors combined—every Silver Cup—All Prizes offered on cockerels, viz: 1st, 2nd, 3rd, 4th and 5th, three years in succession; Sweepstakes Champion Male four years in succession; Both Sweepstakes Champion Male and Sweepstakes Champion Female three different years.

I am the only Barred Rock breeder who has won **Every First Prize Offered**, all prizes on Cockerels and all prizes on Pullets, viz: 1st, 2nd, 3rd, 4th and 5th, within the four walls of Madison Square Garden. The Imperial "Ringlets" have won final ownership of every Silver Cup and Trophy that has ever been offered at New York to be won three times—Among them are the **\$100** Challenge Trophy and the **\$100** Association cups.

PRIZES AND SILVER CUPS

have been won by my customers on the Imperial "Ringlets" in more than a thousand show rooms throughout the civilized world—You can win the same laurels.

I will sell you grand exhibition and breeding birds, Cocks, Cockerels, Hens, Pullets and Pens of this richest First Prize Sweepstakes New York blood, mated to produce Prize winners and eggs from the World's Best Matings.

See My Ad
on Back
Cover Page

Richly illustrated Catalog Upon Request.

E. B. Thompson

Lock Box 510, AMENIA, N. Y.

a report designed to make the farmer think he is making money when selling eggs at cost, and very often far below cost. When the poultryman offers a superior article he has a hard time to convince people that his time and labor are worth something.

I am glad you are starting the work of endeavoring to educate the people what to charge for eggs in order to make a profit on producing them

According to the report of one of our Experiment Stations last year, eggs which sold for 20c, only cost \$76.42, or

10½c a dozen when no charge was made for labor. The farmer thus probably thought he was getting 100% at 20c per dozen.

The public in general should be taught the cost of producing eggs, farm raised or otherwise. A similar instance may be found in the production of tobacco in this section. It costs 13c to raise Flue and Bright tobacco. Yet the buyers sometimes only pay 10c. Where does the tobacco raiser come in? He pays his fertilizer bill, a little on his store bill, and starts in to do the same thing

over again. I have no patience with this manner of doing business.

I am unable to understand the position of a poultry magazine editor who is unwilling to look at the proposition squarely as to the actual costs. His greatest opportunity for helping his readers lies in giving the actual facts that they may better conditions and not in leading people to believe there is a great profit to be gained in the production of eggs—which cannot be borne out by facts.

Virginia.

H. C. MARTIN.

E. B. Thompson's Imperial Ringlet Barred Plymouth Rocks

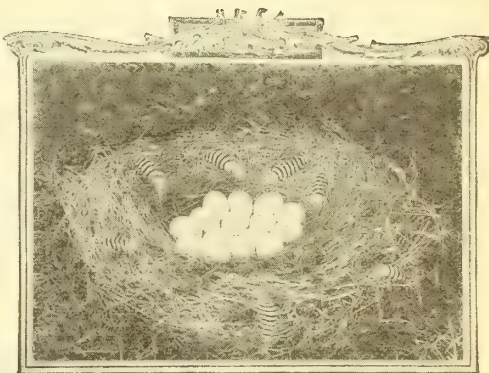
**Are Recognized Thruout the World As
the Leaders of All the Barred Rocks**

**You Are Now Thinking About Eggs to Produce
the Silver Cup and Blue Ribbon Winners
for Next Season's Shows.**

Think of the great satisfaction of winning prizes on birds you raise with your own hands, from the time the chick first sees daylight until the Blue Ribbon hangs on the coop in the Show Room. The delight of winning on a bird you owned all its lifetime cannot be described.

**My Imperial "Ringlets" Will Put You In a
Position to Win at Next Season's Shows.**

You may raise a single chick worth hundreds of dollars and capable of winning in the strongest competition—Hundreds of my customers have done this.



Imperial "Ringlet" Eggs in a perfect nest

My Matings Cannot be Equalled in Their High Quality and First Prize New York Blood Lines

They are the Finest in all America. In my Imperial "Ringlet" eggs you get the best First Prize Sweepstakes New York blood which you must have to win in the strongest competition. You will share with me and have an equal chance of producing the highest quality First Prize birds of the year. The Imperial "Ringlets" have a distinct type, color and barring—their color is one even blue shade and barring, is evenly spaced, narrow and straight across the feather to the skin—they stand out in pattern from all others.

My Eggs Are the Best that Money Can Buy—They Produce First Prize Birds

Mr. E. B. Thompson.

Wilcox, Pa., January 11th, 1916.

Dear Sir:—Just a few lines to let you know what the Imperial "Ringlets" have done for us in the show room this last fall and winter. The Mountain Poultry and Pet Stock Association, of Kane, Pennsylvania, held their show last week. We had 28 birds entered and they were admired by everyone as well as by the Judge; in prizes we took 1st, 2nd, 3rd, 4th and 5th Cockerel; 1st, 2nd, 3rd, 4th and 5th Pullet; 1st, 2nd and 3rd Pen; 1st and 5th Hen; 3rd Cock; Special for Best Pen in Show and Best Hen in Show, also a Special Silver Cup for Best Display in American Class. At McKean County Fair and Johnsonburg Show they won the Blues also. These birds are all from the stock we raised from the eggs we bought of you in the spring of 1914. We have some promising youngsters from the eggs we got of you last spring, too.

Yours respectfully, Nelson Bros.

Plainville, Ind., Jan. 3rd, 1916.

Mr. E. B. Thompson.

Dear Sir:—I will write and let you know that the Imperial "Ringlet" cockerel that I bought of you in December won First Prize at Plainville and Odon, Ind., and from the eggs I got of you last spring I raised seven pullets and seven cockerels; won 1st and 2nd Pullet; 1st Pen; 2nd and 3rd Cockerel. Kindly quote price on one setting of eggs from your best cockerel mating pen.

Yours truly, Fred Lawyer.

I Will Help You to Greater Success and Larger Profits

Richly Illustrated Catalog Upon Request.

EGGS from the finest exhibition matings in all the world,
\$10 per setting; 4 settings \$35; 100 eggs \$60.


E. B. Thompson

Lock Box 510, AMENIA, N. Y.

See My Other
Ad on Back
Cover Page

Womans Success With Poultry

Helen T. Woods, Editor
A Department for the Exchange of Helpful Poultry Experiences



BREEDING SINGLE COMB WHITE LEGHORNS.

A Contest Article Submitted in Competition for the D. W. Young \$50 Cockerel.

By MRS. ROBT. WEST, Montgomery, Ala.

WHITE LEGHORNS have been in this country since 1853. The first, a trio being imported from Italy by one W. Simpson, of West Farms, N. Y., during that year. The eggs from this trio produced varied effects, some of the stock being Dominique, some blue, while more were pure yellow; all had white legs. In 1868 yellow legs were made a characteristic. The first Whites sent to England was in 1869. They immediately became very popular there and in 1872 eggs were advertised at \$10 per dozen. From the day they landed on American soil, they have grown steadily in demand and popularity. Have had many so-called competitors put forth with wonderful claims "on paper," only to fall under defeat by the White Leghorn as the greatest egg producers and money makers in the poultry family.

White Leghorns hold a place among fowls that the Jersey does among cattle and like the Jersey, they give the largest returns at the least expense. When well fed the surplus does not go to fat, inducing sluggishness, but to the produc-

tion of smooth white eggs which command the highest prices as is plainly demonstrated by the fact that the largest egg farms are stocked with Single Comb White Leghorns, the unmistakable recognized egg machines of the present day. To the small poultryman and general farmer the question of profit is all essential and the question of profit in poultry has been well decided in favor of the White Leghorn. When they are allowed a free range, they will pick up a large part of their living during the greater part of the day. Under ordinary circumstances it is said that the cost of raising them to maturity is about one-half that of the Asiatic varieties and proportionately less than that of the American breed. If this is true, and one secure a good laying strain of White Leghorns, there can be no question that the profit side of the ledger in the transaction will be more favorable to the White Leghorn than it would have been had some other breed been selected.

The objection often raised that owing to its small size, the White Leghorn is not a good table fowl, cannot well be sustained, for if a White Leghorn be properly fed and otherwise cared for and put in condition for the table, there is none to excel it, with the possible exception of the game. If our family happens to be large it may take two Leghorns to supply the table, where it might have taken only one Brahma, Cochon or

Plymouth Rock. If the cost of producing the two Leghorns were equal only to that of producing the Brahma or Plymouth Rock, and in the meantime would receive twice as many eggs from the two Leghorns, why could we not well afford the two rather than one of either of the others?

SHAPE CHARACTERISTICS.

The cock should be trim, active and graceful, plump and broad at the shoulders and tapering towards the tail. He should have a close fitting plumage and the tail should be well balanced on a fair length of shanks and thighs. The breast should be full, well curved, prominent and carried well forward. Neck rather long, well arched and head carried erect. Back rather long, slightly sloping downward from shoulder to center of back, rising in a gradual concave to the tail. The tail should be rather full, carried well up but not upright. Wings long, well folded and tightly carried. Legs should be bright yellow. Hackle and saddle feathers abundant and flow well over shoulders and saddle. The ideal head is moderately short and deep with bright red eye and red face. The comb must not be too large, but straight, firm and even on the head, bright red and with five well defined points. The hen is not so graceful as the cock, but owing to its lighter weight may appear more sprightly. Head should be small, short



FIRST PRIZE COCK MADISON SQUARE GARDEN DEC. 31, 1915 - JAN. 5, 1916
BRED AND OWNED BY D.W. YOUNG, MONROE, NEW YORK.



FIRST WHITE WYANDOTTE CKL.
PHILADELPHIA - Dec. 1912
CARR BROS. Vineland, N. J.

and deep, with moderately curved beak. The comb should be medium size with the front standing erect, including first point. Ear lobes should be thin, free from wrinkles and fit close to the head. The wattles medium size, thin and rounded, fine in texture. Breast round and full, neck long, slender and gracefully arched. Back long with a long tail carried well up but not upright, with a reasonable spread so it does not have a pinched appearance.

My first experience raising fine bred chickens was when I was a mere girl on the farm. I had Barred Plymouth Rocks and when I came to town my first



J. R. Parks and grandson. Mr. Parks is one of the oldest utility breeders in America today, as he was one of the originators of the Parks Strain Bred-To-Lay Barred Rocks. Now bred by J. W. Parks and his son, Altoona, Pa.

sight of a Poultry Exhibition was eleven years ago, when I purchased several poultry journals and ordered some S. C. White Leghorn eggs from a northern breeder, advertised in the AMERICAN POULTRY JOURNAL. I at once became interested in the White Leghorn by being attracted by their beauty, grace and vigor, and I have ever since bred the Single Comb White Leghorn. There wasn't any other breeder near here that knew any more than I did about mating, so I had to gain my knowledge by experience, and not until three years ago did I know just what kind of mating to produce the low tail, graceful, kind of Leghorn, that attract the most attention in the show room. I have learned to mate so as to produce the birds that are so much in demand; those that will produce the most eggs and keep their grace and vigor. I pick the females first that I want as breeders, put

Oat Sprouter \$2

For \$2.00 you can build the simplest, most efficient, easiest to operate and very best oat-sprouter ever constructed. A boy can make one in an evening with no tools but a saw and hammer. Cost of operation for a 40-hen size less than 7c a month. There are thousands in successful operation. Plans with plain directions for building, 25c postpaid.

I. PUTNAM, Route 105 ELMIRA, N. Y.

S. C. BROWN LEGHORNS

PARTRIDGE PLY. ROCKS

My birds won 1st, 2d and 3d Prizes at the Greater Chicago Show, January, 1916; also Clean Sweep at Grand Rapids, Michigan, same week. Stock and Eggs. Prices Lowest. Mating List Free.

E. A. CROTSEY Box 12 Fulton, Mich.

If a large part of our orders each spring are "repeats" from satisfied customers of previous years, don't you think we can please you, too, in the matter of

S. C. White Leghorn Day-Old Chicks

If you cannot appreciate what real quality in chicks means, don't bother writing us. Our free mating list will not mean anything to you if you think a chick is a chick regardless of its quality. But if you do appreciate the difference, we will gladly tell you about our bred-to-lay strain of Leghorns.

Hough Egg Farm - Box J - Far Hills, New Jersey



1st prize Ch. St. Louis, 1915

Gerber's Single Comb

WHITE LEGHORNS

Ours is one of the oldest and best known strains in the Mid-West. Chicago Coliseum and St. Louis winners. Wonderful pens now mated, that will produce real winners this coming season. Eggs for hatching. Stock for sale. Satisfaction guaranteed. Free catalog.

G. J. GERBER - Box 188 - DALTON, OHIO

Ward's Champion Buff Plymouth Rocks

Winners for the last 15 years at such shows as Buffalo, Chicago, Kansas City, Springfield, Ill., and scores of other shows. I don't claim to have the best in the world, but as good as the best. Send \$5, \$10, \$15; I want to send you a Cockerel on approval. Eggs from choice matings at \$3 and \$5 for 15.

THE BUFF ROCK MAN, :: R. W. WARD, NORMAL, ILLINOIS

Porter's Buff Orpingtons

Grand pens now mated, containing my Chicago, Springfield, Peoria and Illinois State Fair winners. The real Orpington type, and rich, even shade of buff. Start with the best. Look! Eggs for hatching, \$2.00 and \$5.00 per 15. Mating list free. Satisfaction guaranteed. Write

A. B. PORTER - Box 4 - LA SALLE, ILLINOIS

Minch's R. C. Blk. Minorcas

Winners at Cleveland, Dayton and many Mid-West shows. Grandest pens in the country now mated. First prize cockerel and champion male at Dayton, Ohio, 1915, heading 1st pen. Eggs for hatching and stock for sale at reasonable prices. Mating list free.

Philip J. Minch 1907 East 97th Street Cleveland, Ohio

Fernbrook Farm White Wyandottes

Won at the Great National White Wyandotte Club Meet at Buffalo best display by more than double the points scored by our nearest competitor. Winners at Boston, 1915 and 1916. Also winners of all blue ribbons at six other large shows in the last two seasons. A few choice breeders in cocks, hens, cockerels and pullets left for sale. Eggs from the ten finest exhibition matings we ever put together, \$5.00 per 15; \$9.00 per 30; \$13.00 per 45; \$25.00 per 100. Utility eggs, \$8.00 per 100. It will pay you to send for our 16-page mating list for 1916, giving description of our superb matings, winnings, illustrations, etc.

FERNBROOK FARM Arthur G. Bouck, Mgr. Box A, Menands Road, ALBANY, N. Y.

PALMER'S BARRED ROCKS

The strain that has bred and shown more winners at Chicago than any two competitors combined. Write today for our illustrated free catalog and mating list on eggs and our proof to the claim of the best Barred Rocks in the West. A few good breeders left for sale. Satisfaction guaranteed on both stock and eggs. Write today and get in line to raise that next year's winner from our eggs. D. F. PALMER & SON, Box 35, YORKVILLE, ILL.

BUFF AND BLUE ORPINGTON WINNERS

Eggs for hatching. Pens contain Madison Square Garden, Springfield and Holyoke winners, that simply teem with quality. \$3.00 to \$10.00 per 15. Breeding stock for sale at reasonable prices. Mating list free. Write your wants. HENRIETTA E. HOOKER, South Hadley, Mass.

BIRDS — Barred Plymouth Rocks — EGGS

Indianapolis, 1914 and 1915 State Champion Cockerel; 1st pen; 2d pen; 1st cockerel; 1st pullet; 2d and 3d hen. A limited number of birds for sale. Mating lists on application.

W. H. GODDARD & SONS Orchard Place RIVERSIDE, MUNCIE, IND.

Do you want to get twice as many eggs? See announcement on page 449.

them in four pens, ten to each pen, and for one week I cull out by shifting females from one pen to another until I get the birds together that I call my 1-2-3-4 breeding pens.

SELECTING BIRDS FOR EXHIBITION MATING.

In selecting them I get the ones that show such points as the Standard of Perfection calls for as near as I can get them out of the number of females. I pick ten of the best, one that has a broad saddle with medium spread to tail, and right here is the secret of breeding the Leghorn with the curved back without the sudden stop right at the root of tail. If the females have a narrow tail section you are wasting time trying to breed Leghorns for exhibition purposes. You have absolutely got to get the broad saddle, plenty of cushion to produce the desired results.

The male bird for my best breeders I use cock birds. I never breed cock-

erels for exhibition birds the first season or so. Many times cockerels go wrong, lose their type, get white in the face, and by cooping cockerels up for Fall show confinement will make them drop the tail carriage; in fact, I can take a bird that I wouldn't breed from the coop train him until he will win at most shows, as many judges only see a bird's back, especially the Leghorn, as no other breed has made such progress in developing the type which the Standard of Perfection calls for. There is one Eastern breeder that has done more to develop the type of the Leghorn, and all breeders of Leghorns must take off their hats to him, as his name will go down in history as the greatest Single Comb White Leghorn breeder in the world, and it's all due to his skill that he has made it possible for other Leghorn breeders to produce nearly what the Standard calls for.

The male bird must by all means have

a full breast and not a hollow look from his beak to thighs. He should have moderate height and not the short dumpy legs. He should be free from white in face, and wings should be well folded up, should have lots of vigor, full of life, above all things. The back should be a good length so as not to have the Wyandotte shape. A Leghorn is a bird of curves, but should be long graceful curves, not short and dumpy; the saddle should be wide, heavily feathered and the saddle and tail section apply as much to the male as the females, if you are wanting type. You must absolutely use as a breeder a male bird with broad saddle to get the curve and the angle of 45 degrees to the tail section. By using this mating as described above, using pure white birds you need not worry about the results for the next season if properly fed, kept free of lice and mites so as to rush to maturity.



Made in Two Sizes
130-EGG
Incubator and
130 Chick Brooder
BOTH
for only **\$10** or
180 Egg Incu-
ator and 180
Chick Brooder
both for **\$12**

Natural Finish
California
Redwood

Freight Paid

Wisconsin Wins in big Hatching Contests Every Year



Year after year these unbeatable Wisconsin Incubators have proved their superiority over all other machines regardless of price. Prize-winning hatches like those shown here prove beyond a doubt that Wisconsin Incubators are the best for the money in the

world. They prove you can't get bigger, better hatches even if you pay twice the price. So why pay more? In addition to their wonderful hatching dependability, I want to prove to you that Wisconsin Incubators are also the best built, most durable and best equipped machines in the world for the money.

BOTH 130 \$10

EGG Incubator and 130-Chick Brooder

Machines for only

PRIZE-WINNING HATCHES

3rd Year

Mrs. J. W. Mize, Vaughan Mills, Ky., won in the Successful Farming Contest, hatching 208 chicks from 208 eggs in two settings.

2nd Year

Mr. C. B. Arter, Atwater, Ohio, won in the Successful Farming Contest, getting 181 chicks from 181 eggs in two hatches.

1st Year

Mrs. J. Mc Mahan, Veedersburg, Ind., won in Missouri Valley Farm Hatchery Contest, hatching 125 chicks from 125 eggs.

4th Year

Mr. F. H. Lewis, Montrose, Pa., won in Successful Farming Contest, getting 96 chicks from 96 eggs one setting.

5th Year

Mr. C. C. Rich, Russiaville, Ind., won in Successful Farming Hatchery Contest, getting 94 chicks from 94 eggs—the first hatch he ever made with any incubator.

All Won With This WISCONSIN \$10 Outfit

Find out what an Incubator is made of before you buy. If you will write for my free catalog, I will gladly mail you a sample of the lumber we use so you can see the quality and compare it with others. Then you will know which machine is best; which will last longest and which will give you most value for the money.

Why Take Chances? Wisconsin Incubators have double walls.

I build the outer walls of my Incubators of genuine California Redwood—costing four times as much as materials some manufacturers use—and the inner wall is of insulating board with dead air space between the walls—hot water heat, double glass doors, copper tank and boiler, self-regulating. Roomy nursery under egg tray. Incubator is finished in its natural color showing the high grade California Redwood lumber used—not painted to cover up inferior material. Both machines shipped complete with thermometers, lamps, egg tester and book of directions, all set up ready for use when you get them. Freight paid East of the Rockies.



I Give 30 Days' Free Trial—10 Years' Guarantee (6)

Order Direct from this Advertisement—Money Back if Not Satisfied

You can send in your order direct if you wish and save time. Remember you can have 30 days trial with the understanding that if you are not perfectly satisfied, simply write me—send the goods back and I'll not only return your money, but pay the freight charges and charge you nothing. I have been advertising in this paper for years. The publishers know me and know I do just as I agree. I am undoubtedly making the readers of this paper the most remarkable offer on high grade incubators and brooders that has ever appeared in this paper. You take no risk in ordering a Wisconsin direct from this advertisement. Don't buy any other until you get my free catalog. Write for it today.

Thos. J. Collier, Mgr. WISCONSIN INCUBATOR CO., Box 52 Racine, Wis.

Recent Inventions for Poultrymen

By Lester L. Sargent, Patent Attorney, Washington, D.C.

A NEW brooder, invented by Andrew Essig, Cleveland, Ohio, has a heat-receiving chamber in its upper portion, which receives and distributes the heat from the lamp in the center of the brooder to the outer or adjacent brooder chamber, where the chicks hover. The hover is conical. A hot-air flue is located at the center and has openings thru which the hot air percolates to the inverted cone member which extends nearly to the roof of the hover and distributes the heat. The brooder is provided with the usual thermostat. This is arranged to unclog the central flue when the temperature exceeds the prescribed degree. Patent No. 1,169,071.

A poultry duster invented by Edward F. Hudson, Wilkes-Barre, Pa., applies a germicide powder to the poultry. The device consists of a hopper with an open

mesh sheath at the bottom which receives the powder from the hopper and sifts it under the body of the fowl, when an agitator at the mouth of the hopper is moved. The patent is No. 1,167,561.

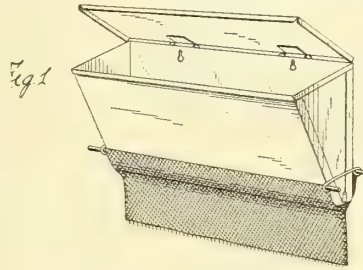
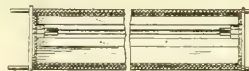


Fig. 2

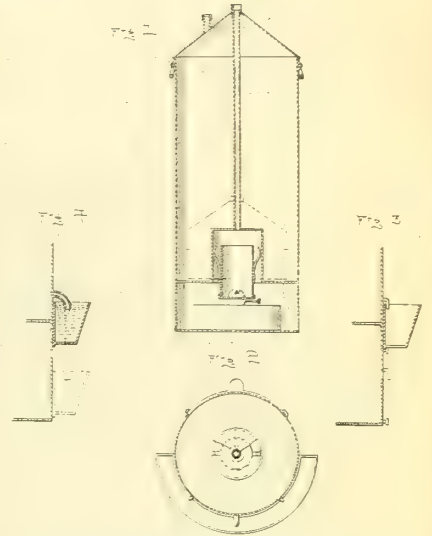


Fig. 3



Poultry Duster, patented January 11, 1916, by E. F. Hudson, Wilkes-Barre, Pa. No. 1,167,561.

A new poultry fountain with a lamp for preventing the water from freezing has been devised by Oscar A. Dietsche, Gladstone, N. Dak., where there is much difficulty in keeping ice out of the poultry fountain at this time of the year if they are not heated. The lamp in this fountain is at the center of the base portion. A chimney extends up thru the center of the fountain. The water is fed from the main chamber of the fountain to a cup thru a tube that terminates below the water line of the cup. The patent is 1,168,489.



Poultry Fountain, patented January 18, 1916, by O. A. Dietsche, Gladstone, N. Dakota. No. 1,168,489.

Carter's Barred PLYMOUTH ROCKS

We have a grand lot of Barred Plymouth Rock Cockerels and Pullets of both matings. We can supply you with show birds or breeders. Write for prices on stock—state just what you want and we will quote you prices. Eggs from either of our best mating, \$5.00 per fifteen.

Carter's Poultry Farm
Jonesdale, Wis.



60 BREEDS Valuable Poultry Book Free—New 100-page 22nd Annual Edition. Fine pure-bred chickens, ducks, geese and turkeys—Northern raised, hardy, beautiful. Fowls, Eggs and Incubators, low prices. America's greatest poultry farm. Write today for Free Book.

R. F. NEUBERT CO., Box 895 Mankato, Minn.

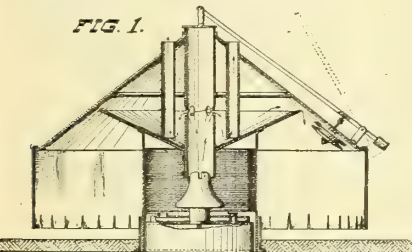
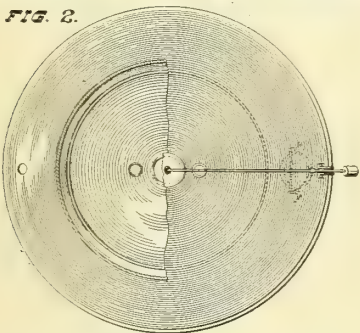


FIG. 2.



Brooder, patented January 18, 1916, by A. Essig, Cleveland, Ohio. No. 1,169,071.

Your fresh eggs delivered safely—that's the big idea back of the

Sefton Egg Shipping Boxes

You want boxes that will carry the eggs perfectly, at the lowest shipping cost: you'll get them when you use Sefton Boxes.

A lot of shippers are reaching the city markets by using Sefton Boxes. Better write us about it. We have a lot of useful information that you'll be interested in, or

"ask your paper jobber."

THE SEFTON MFG. CO.

1329 West 35th Street

Chicago, Illinois

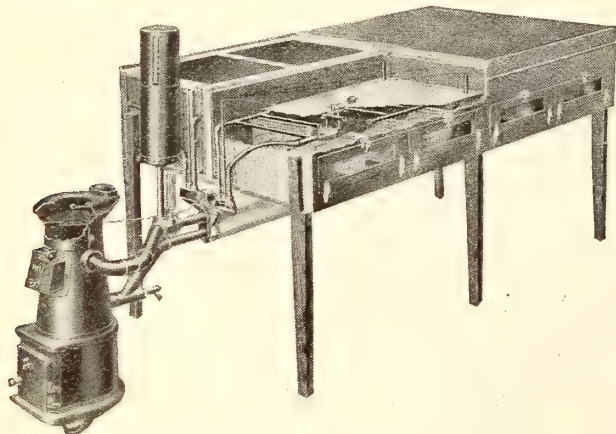


Mills Sectional Incubator

Write for Special Trial Offer

To Poultrymen of Financial Responsibility
We Have a Limited, Interesting Proposition

Offer Open Until April 15th



Automatically, positively, naturally supplies heat, ventilation and moisture. Embodies all the requirements of the perfect artificial hatcher. Trial offer applies to 1200-egg capacity.

Send at once for bulletin and trial offer proposition.

MILLS INCUBATOR COMPANY

Room 502-E, 30 Church Street

NEW YORK CITY

BREEDERS **White Leghorns** BREEDERS

WE ARE IN EVERY SENSE BREEDERS. WE ARE NOT A HATCHERY.

After years of careful study to perfect our stock we have accomplished our aim and today our birds are excelled by none for vigor and productiveness. Our own breeders possess the qualities to produce livable chicks and unsurpassed layers.

DAY-OLD CHICKS EGGS FOR HATCHING

Write us and we will astonish you with the prices we quote considering the quality we offer. We guarantee the safe delivery of chicks, the fertility of our eggs and that both will be the product of our own breeders; and, furthermore, that all customers must be satisfied when dealing with us. Remember, if you order from us you receive the benefit of years of care and study given to perfect our stock. You will not receive hatchery stock. Send us your order early to insure delivery date. We guarantee to fill orders when wanted or to promptly return your money. Write for free booklet, describing our methods and stock.

SPRING WATER POULTRY FARM

R. F. D. No. 1

STOCKTON, NEW JERSEY

INSTANTANEOUS—AUTOMATIC—ELECTRIC

(Patent Pending) THE MOST POWERFUL EGG TESTER on THE MARKET

All other testers are "tallow dips" in comparison! No other tester even approaches it in power, speed, safety and convenience. The very instant an egg is placed, the powerful Mazda-Tungsten lamp shoots ALL its light into and through it; not a ray of light is wasted; the egg gets it ALL. Equipped with dry batteries; no other current used. WIDE OPEN "MONEY-BACK" GUARANTEE.

"LITTLE WONDER" No. 2—2 lights (like cut) \$3.00 each, prepaid
"LITTLE WONDER" No. 1—1 light - - \$2.00 each, prepaid

Send for descriptive circulars and testimonials; they will convince you! Here's just one; from the great Ancona breeder:—"It is just what I have been looking for; would not take ten times the price of it, if I could not get another." H. Cecil Sheppard, Berea, Ohio, June 17, 1915.
Manufactured by J. B. TIMBERLAKE & SONS, STATION "A" JACKSON, MICHIGAN.



EGGS or CHICKS From Our Vigor-ous, Healthy — Bred-to-Lay **S. C. WH. LEGHORNS**

will start you right. March chicks \$3.50 per 25, \$13 per 100, \$120 per 1,000. Eggs, \$1.25 per 15, \$6 per 100. Cockerels, \$2 and \$3 each. At least get our free catalog before ordering elsewhere.

The Elliott Poultry Farm,

R. 7, Box 87,

Mansfield, Ohio

John A. Wachendorf, of Mukwonago, Wis., has invented a trap nest which has a simple wire guard member of U-shape pivotally mounted and arranged to drop over and close the opening to the nest

Fig. 1.

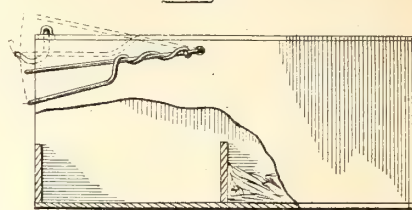
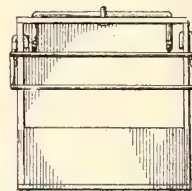


Fig. 2.



Trap Nest, patented February 1, 1916, by J. A. Wachendorf, Mukwonago, Wis. No. 1,170,126.

after the fowl has entered. It must be reset by hand. The back of the fowl springs the trap when it enters the nest. The trap device can be manufactured separately from the nest, so as to be readily applied to any nest. Patent No. 1,170,126.

A new hen's nest invented by Daniel C. Buie, Wills Point, Texas, has a gate or door which automatically swings to position of closing the entrance to the nest when the hen enters. The nest box

Fig. 1

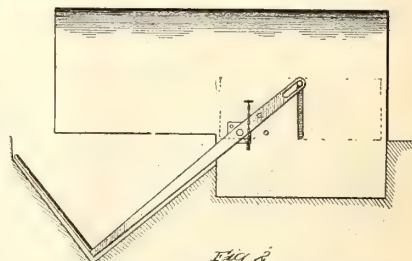
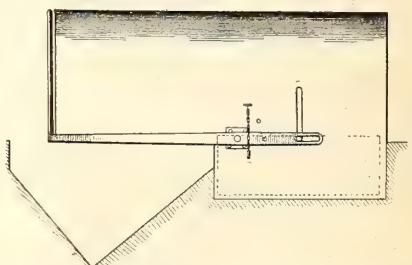


Fig. 2



Hen's Nest, patented January 18, 1916, by D. C. Buie, Wills Point, Texas. No. 1,168,475.

is arranged to be lowered by the weight of the hen, this in turn operating a lever that raises the door that closes the entrance to the nest. The nest box does not drop very far, however, and the hen can readily jump out of it, and the entrance door will then drop out of the way, automatically opening the nest. Patent No. 1,168,475.

50 Best Paying Varieties

Hardy Northern raised Chickens, Ducks, Geese and Turkeys. Fured heaviest laying strains. Fowls, Eggs, Incubators, all at low prices. Large new Poultry Book and Breeders' Complete Guide Free. W. A. WEBER, Box 952, Mankato, Minn.



MONTHLY PRIZE CONTEST DEPARTMENT

The American Poultry Journal offers the following prizes monthly for the two best articles received on or before the fifteenth day of each month: For the best article, a prize of Three (\$3.00) Dollars will be awarded; for the second best article, a prize of Two (\$2.00) Dollars will be given. Articles intended for the Contest must be written on one side of the paper only and should not contain less than 1,000 nor more than 2,000 words. The articles may be written on any subject pertaining to poultry culture. We reserve the right to retain all articles submitted and to publish such as we deem worthy of space. Send all articles plainly marked to Contest Editor, American Poultry Journal, Lock Box 4, Silver Lake, Mass.

RAISING CHICKS FOR FAMILY USE.

Suggestions for the Back Yard Poultry Keeper, Being the First Prize Article in American Poultry Journal Contest.

By C. HARRIS SCOFIELD, Springdale, Conn.

WE CAN, all of us, find much to read on how to raise chickens by the hundred, thousand, or even ten thousand, but the little fellow—the man who wants to raise only a few hens for his own use—is sadly neglected; and yet I presume such small poultrymen constitute the great majority of readers of poultry literature. The object then of this article is to give the experience of one who has raised from thirty to fifty chickens a year for the past eleven years.

Perhaps a statement of what I have recently accomplished may better entitle me to your consideration of how it was done. In 1913, I hatched 52 chicks and raised every one; in 1914, I bought 36 day-old chicks and raised all but one, which was killed by the door of the brooder house falling upon it; in 1915, I raised 23 out of 24 day-old chicks. Such a record should at least prove that my methods cannot be radically wrong.

Having raised hen-hatched, incubator-hatched, and bought day-old chicks, I can say without reservation that, for the small breeder, the last method is prefer-

able, if one is careful to get stock he knows is of a strong, vigorous strain. I have never gone very far from home for my day-old chicks, as I find it safer to see the stock they come from, and I believe that 75% of my success is the result of having nothing but healthy chicks to start with. The objection to this method for a large grower is the expense, but the added cost for anything

York City where the thermometer may go away below freezing at this time of the year, *without artificial heat*, would seem impossible to many breeders, yet this is what I have done—moreover, I have no elaborate manufactured hover or brooder-house “warranted better than the mother hen”.

My hover is a wooden box, 24" square, made of $\frac{3}{4}$ " lumber, an open-

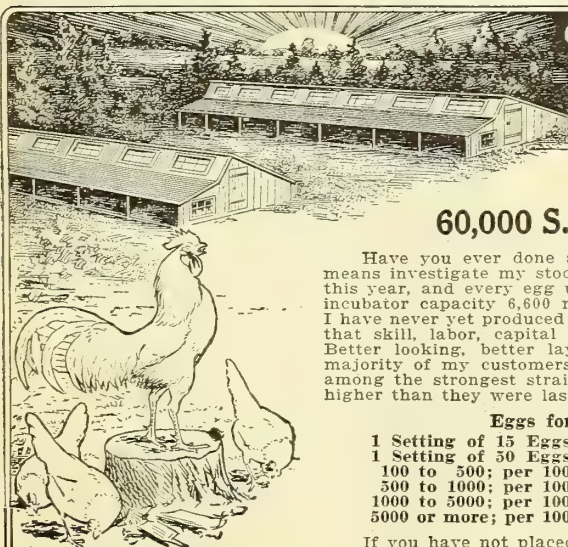


Partial view of the Parks' Poultry Plant, Altoona, Pa., where is bred the well known strain of Parks' Bred-to-Lay Barred Plymouth Rocks.

under 100 chicks is more than offset by the labor and attention saved; moreover, poultry as a side line is very apt to be slighted at times, while incubators and setting hens will not allow any lapses of attention.

To state that chicks hatched in March can be raised in the latitude of New

ing for the chicks to pass in and out, and without any top. A frame of $\frac{3}{8}$ " x 1" stock is provided, just large enough to drop into the box and is held in position by four nails placed in the sides of the box just high enough to clear the chicks' heads (these nails have to be raised slightly as the chicks grow in size.) A



“SUNLIGHT” POULTRY FARM S-C-W LEGHORNS

Greatest Known Layers. (D. W. Young) Strain

60,000 S. C. White Leghorn Baby Chicks For Sale in 1916

Have you ever done any business with the Sunlight Poultry Farm? If not, you should by all means investigate my stock and business methods. I shall operate two Candee Mammoth Incubators this year, and every egg used will be from my birds here on the farm. Again I have increased my incubator capacity 6,600 more and know that I shall be taxed to the limit for months this season. I have never yet produced half enough chicks to supply the demand. I am breeding the best Leghorns that skill, labor, capital and experience can produce—such Leghorns as 98% of the public desire. Better looking, better laying and stronger stock cannot be bought anywhere at any price. The majority of my customers raise almost every chick, and some of them raise every one, as they are among the strongest strain of birds you can find in America today. My prices for this year are no higher than they were last year. Prices are as follows:

Eggs for Hatching

1 Setting of 15 Eggs	\$1.50
1 Setting of 50 Eggs	3.50
100 to 500; per 100	6.50
500 to 1000; per 100	6.00
1000 to 5000; per 100	5.50
5000 or more; per 100	5.00

Day-Old Chicks

25 to 50 Chicks	\$.14
50 to 100 Chicks	.13
100 to 500 Chicks	.12
500 to 1000 Chicks	.11½
1000 to 5000 Chicks	.11
5000 or more Chicks	.10

If you have not placed your order, right now is the time to place your order so as to not be disappointed.

Sunlight Poultry Farm's chicks are livable chicks, as well as quality chicks, because they are bred from quality birds that have vitality, stamina and the best laying quality bred into them. They are the chicks that will please you. Not a yarded breeder on the farm, but just a large flock of breeders out on unlimited range, housed in open front houses. Is it any wonder that we can get such fertility on our eggs and such strong, healthy chicks? If you have not placed your order, right now is the time to place it so as to not be disappointed. Orders will be booked for future delivery on receipt of one-fourth the purchase price; the balance to be sent before order is shipped. Cocks, cockerels, trios and pens for sale at all times. Remember, **The Sweetness of Low Prices never equals The Bitterness of Poor Quality.** Write your wants. Catalog free. Satisfaction guaranteed.

SUNLIGHT POULTRY FARM, E. N. Lemon, Owner, Lynchburg, Ohio

JOHN G. POORMAN

BOX 100

TINLEY PARK, ILL. U.S.A.

POORMAN'S

200 EGG

STRAINS

VIGOR

SIZE

QUALITY

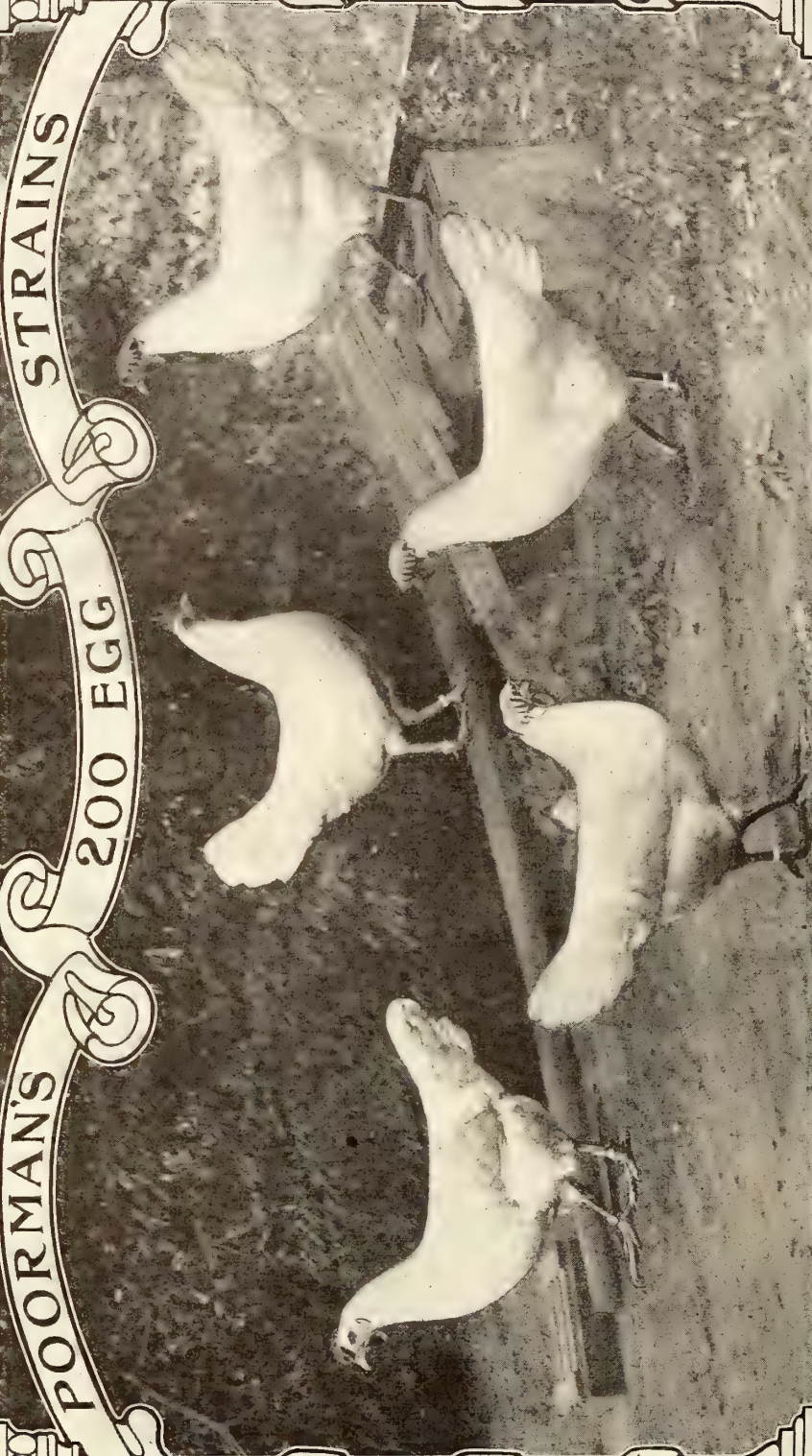
EGGS

STOCK

CHICKS

TRAP-NESTED
BRED-TO-LAY
POULTRY

WHITE ORPINGTONS
BARRED PLYM. ROCKS
WHITE WYANDOTTES
WHITE RHODE ISLAND REDS
WHITE PLYM. ROCKS
WHITE LEGHORNS



The illustration shows five White Leghorn hens in a field. They are standing and facing different directions. The background is a simple landscape with a fence and some trees. The entire scene is framed by a decorative border with various text elements.

The S. C. White Leghorn hens in this group have records of 285, 254, 248, 244 and 240 eggs.

JOHN G. POORMAN
BOX 100
TINLEY PARK, ILL., U.S.A.

STRAINS

200 EGG

EGGS
STOCK
CHICKS

POORMAN'S
VIGOR
SIZE
QUALITY

TRAP-NESTED
 BRED-TO-LAY
 POULTRY

WHITE ORPINGTONS
BARRED PLYM ROCKS
WHITE WYANDOTTES

WHITE ORPINGTONS
WHITE PLYM ROCKS

35 RHODE ISLAND REDS
35 WHITE LEGHORNS

35 RHODE ISLAND REDS
35 WHITE LEGHORNS

The White Wyandotte hens in this group have records of 256, 247, 243, 237 and 232 eggs.

Again We Lead

At the Great

Madison Square Garden, 1916

We did not exhibit Buff Orpingtons, as our Mr. Rawnsley was judging that class.

Speckled Sussex

WON

1-3 cock, 1-2 hen, 1-3 cockerel, 2-3 pullet, 1-2 pen.

At the Chicago Coliseum, December, 1915

which was the Sussex Club Show of America, we won 1st and 2nd cockerels, 1st and 2nd pullets, 1st old pen, 2nd and 4th young pen, 2nd and 4th cock, 2nd and 5th hen, and Grand Champion Cup best display; cup for best colored male; cup for best colored female; club ribbons for best cockerel and pullet. Winning 76 points in best class Sussex ever shown in America without question.

Limited number high class breeders and show birds for sale. Our egg matings headed by the best line of male birds in America.

Our matings will be headed by the two best male birds in the world—bar none. Our Buff Orpington cockerel, "King of the Coliseum," (a bird we bred and raised), and our Speckled Sussex cockerel, "Tommy Atkins," won champion trophy at Great Dairy Show, England, over all varieties.

At National

Buff Orpington

Club Show, Chicago Coliseum
December, 1915

Here are our winnings on S. C. Buff Orpingtons: 1st cockerel, 1st hen, 1st pullet, 1st, 3rd and 5th old pens, 1st and 2nd young pens.

SPECIALS

Color special for best colored male in show. Grand champion cup for best display, cup for best 3 old pens, cup for best 3 young pens. Winning 74 points all told, and 5 club ribbons. Magnificent, massive, rich Golden Buffs for sale in cocks, cockerels, trios, pens, at "live and let live prices."

Pens now mated containing these wonderful winners. Write us for list and prices, we can serve you.

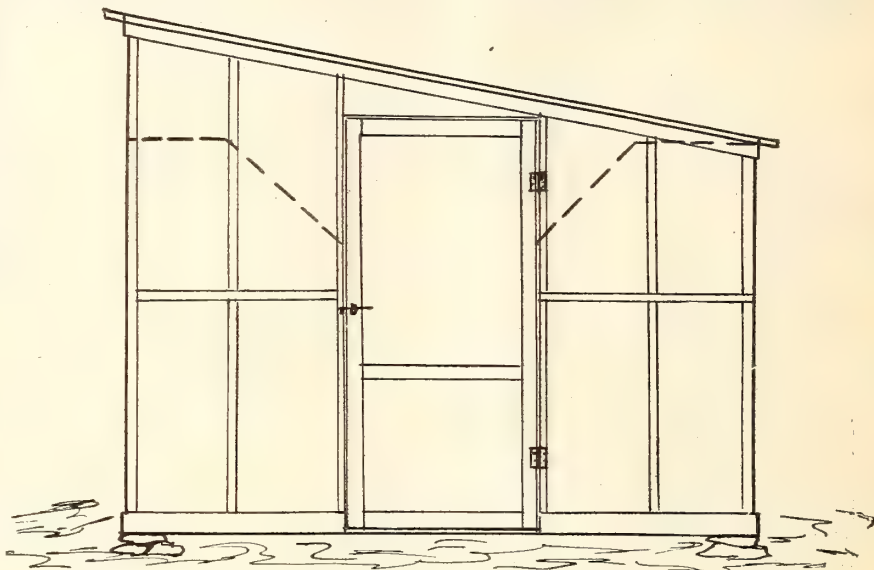
**RAWNSLEY-SHIELDS
POULTRY FARM**

5173 N. High St. Columbus, O.

piece of muslin is tacked on the upper side of this wooden frame in such a manner as to allow it to sag slightly in the center. Then by taking some cheesecloth and cotton-batting and making two small quilted comfortables the size of the frame and about 1" thick, your home-made, heatless, "better-than-the-hen" hover is complete. This hover is placed in a brooder house, specifications of which can be found in the catalogs of any of the large brooder-house manufacturers. Mine is made of 1" cypress and is 3'x6' in size, 2' 6" high in back and 3' high in front, with a floor 6" from the ground. Two hinged glass windows in front give plenty of light and warmth thru the day, and an addi-

the hover, and this my hover will do. The only objection is, that there being no heat to induce the chicks to go into the hover, they must be taught by putting them in the first few nights until they get the habit.

In feeding I have followed the system prescribed by the New York State College of Agriculture at Cornell University, Ithaca, N. Y., and published in Bulletin No. 90, Department of Poultry Husbandry, in so far as I am able to conveniently secure the different foods specified, and I have had very good results as compared with others who are less systematic. Contrary to the advice of several breeders, I keep charcoal before young chicks almost from the start



6x8 ft. Piano Box Poultry House. Dotted lines show position of piano boxes.

tional frame covered with wire netting to replace one of the windows on warm days, make it possible to give the chicks the benefit of direct sunshine when the ground is too wet to let them run free.

I have found this outfit sufficient to keep chicks warm in almost any weather. On rare occasions, when the thermometer has gone to zero, I have had to take hover and chicks into the house, but this has never happened more than once or twice a season and is little or no trouble. The idea, of course, is that the heat from the chicks' bodies is sufficient to keep them warm all night if retained in

and have never seen bad results. I have also learned that finely cracked shells cannot be given too soon. I put it before them as soon as I start feeding any solid food, as chick feed or other small grain.

In raising chicks, I have tried to keep expenses at a minimum and my poultry house is no exception. I have built a piano-box house which, for convenience and looks, I believe to be better than anything I have seen published of this kind. I got two piano boxes, took the fronts and tops off and set them 2' 6" apart and cleated them together. I then

You Needn't Board Our Leghorns Free All Winter—They Lay Eggs



"The Proof of the Pudding is the Eating"

Best day's laying in WINTER by 400 pullets, 324 eggs; another lot of 200 hens paid \$1,124 profit. They will lay as well for you. TESTED 10 YEARS. If you want the WINTER EGG AND BIG PROFIT, buy of the breeder that can give unquestionable PROOF. 20,000 chix, selected GUARANTEED FERTILE hatching eggs and stock at a LET-LIVE price. Get my big free catalog. Write

OSEE C. FRANTZ FARMS

ROCKY FORD, COLO.

Feeding Spices to Poultry

It is no new thing to feed condiments, spices, and drugs to induce egg production, especially during the cold winter months. Such artificial stimulation has been practiced by poultrymen for many years, but invariably they would discontinue the use of stimulants because of the harmful effects on the fowls.

Utility men who wanted to get nothing but eggs when eggs could be sold at a high price would stimulate their birds by these artificial methods, and then dispose of them because they were of no further use. Generally speaking, this condition existed wherever poultry was raised for profit, prior to 1909, when a famous poultryman in England, Capt. Ralph R. Allen, had his attention called to the use of Mustard.

At first Mr. Allen looked upon the use of Mustard in the same light as he did the use of other condiments, spices and drugs, many of which he had tried in an experimental way without satisfactory results, and had given public expression of their harmful effects. He was persuaded to experiment with Mustard, which he did with satisfactory results. The details of his experiment have been issued in booklet form, and they are interesting to all poultrymen who desire to get an increased egg production with a very small increase in cost, and without any harmful effects to the birds.

There are several kinds of Mustard flour, just the same as there are several kinds and grades of wheat flour. Mustard flour is milled from the Mustard seed, and there are good and poor varieties of Mustard, just as there are good and poor varieties of wheat. The quality of the flour depends upon the quality of the seed and the process of milling. The first experiments were with a Mustard flour not milled for use with poultry, and the Poultry Mustard in use now is especially prepared and the result of careful experimenting, since Mr. Allen made known to the world its beneficial effects.

The original Poultry Mustard in America is that manufactured by The R. T. French Company of Rochester, N. Y., who carefully followed Mr. Allen's experiments, and, with sixty-five years of Mustard making experience, have perfected a Poultry Mustard stronger than the ordinary commercial Mustard bought for household use. It is a pure Mustard flour made from carefully selected imported Mustard seeds. Thousands of poultrymen have used French's Poultry Mustard with very satisfactory results. The gospel of Mustard feeding is spreading rapidly, and if you have not carefully studied this subject you should get the 32-page booklet, giving the details of Mr. Allen's experiment and some other articles on the use of Mustard for poultry.

The feeding of mustard has other merits than to promote increased egg production, and you will be interested in its relation to fertility, stamina, etc. The booklet will be sent free.

THE R. T. FRENCH COMPANY
Box A, Rochester, New York

The Poultry Band



That's Different

Made of Aluminum and Celluloid. It will stay on, and the numbers will not scratch off. Eleven different colors. Numbers run to 1,000. Made also for Baby Chix and Pigeons. Price, 3c each, or \$2.00 per 100. Free catalog and free sample. On all orders of 200 Poultry Bands during March, I will give one of my 25c Band Closers free.

M. M. BRUORTON, (Successor to F. A. Marshall)
231 Salem Street - WAKEFIELD, MASS.

raised what was to be the front to 6' 6", leaving the back 5' high. The lumber taken out was sufficient to fill in one side, make a door for the other side, complete the floor and put on a shed roof, the only additional lumber required being three pieces of 2x3 to support the roof. A 3'x4' opening was left in the front, covered with wire netting and fitted with a removable muslin-covered frame for cold weather. The outside of the building was then covered with tar paper held on by lath so placed as to give a paneled effect of good appearance. This gave me a shed roof house 6'x8', with headroom enough to stand upright in the front (the dropping-board and nests being in the back) at a cost of slightly less than \$6.00.

HOW SHALL WE PACK EGGS FOR HATCHING?

Bad Results from Poorly Packed Eggs. Properly Packed Eggs Will Carry Long Distances and Give Satisfactory Results. Second Prize Article in American Poultry Journal's Monthly Contest.

By E. SWEET, Pierre, S. Dakota.

EXPERIENCE has convinced me that many breeders are lax in their methods of packing eggs for hatching for shipment to distant buyers. When a breeder takes great pains to improve his flock, working at it sometimes for a great many years, and then incurs the expense of advertising and finding customers, it is a sad thing to learn that his efforts have resulted in failure because the eggs sold for hatching were poorly packed for shipment.

I do not believe breeders, especially those of limited experience, realize that a good part of the complaints of poor hatches are the direct result of their own carelessness in packing hatching eggs. They usually attribute the misfortune to ignorance or dishonesty on the part of the customer and grudgingly set about to satisfy the complainant. Surely when transactions of this kind are on the square, any cause of loss to either party that can be avoided, should be avoided.

I realize, of course, that in very many cases, even with the greatest care on the part of the seller, things will sometimes go wrong. Expressmen may carelessly or accidentally expose the package to extreme heat or cold, or may drop it, or otherwise subject it to rough handling. Even in the hands of the purchaser many things may happen to prevent a satisfactory hatch. Incubators, both natural and artificial, often "strike" or fail in some way to perform their very important part of the undertaking. The attendant may err, for he is unmistakably human. He may not know how to set a hen or how to make her sit. A study of the problem of the hen maternally inclined calls for a goodly amount of patience and forbearance. The order is a large one and sometimes cannot be filled. But in the experiences I am about to relate I have endeavored to make due allowance for all such contingencies.

A few years ago I sent an order to a breeder in New Hampshire for a sitting of White Wyandotte eggs. Ten days later I received the eggs—seventeen of them—at the end of their two thousand mile journey. Each egg had been carefully wrapped in paper and inserted in a ball of excelsior and were then packed

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Book your order now for May hatched chicks

the best month in the whole year for Leghorns. We can take your order for either 25 or 10,000 chicks, and still have some dates open for March and April. Hatching eggs in any quantity, at half the price of chicks.

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THE LORD FARMS, or THE EVERLAY FARM

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Every year for 25 years winners have been hatched from my eggs all over the country. Four of the best pens I ever put together. All headed by a yearling cock mated with hens. Eggs, \$5.00 per 13; \$9.00 per 26. I replace unfertile eggs.

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Trouble When Feeding

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Ask us how to get 32% increased weight on your Spring Chickens in 12 days. It's a simple matter.

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in a wooden box about 14x10x8 inches, which was lined with clover leaves and oat straw, and had some of this material tucked into spaces between the excelsior balls. Thirteen of these eggs went under one hen and the remaining four under another with seven R. I. Red eggs to complete the nestful.

The hen over the thirteen became interested in grand opera the third day and sang herself back into the laying pen. Another old motherly hen was induced to settle down over the stone cold eggs with a loss of one day's time. But on the twenty-second day I had eleven very lively little Wyandottes. I gave the breeder all the credit for that hatch, which was my first experience with eggs purchased from a distance.

Another year I hoped to duplicate my good fortune with far-east eggs and ordered from a breeder in Massachusetts, and another in New Jersey. I ordered a sitting of Rhode Island Reds from each. In due time both shipments came. Both were packed alike, fifteen eggs in strawboard boxes, with bran only to take up the jar. The eggs were rested one day on arrival, then put under hens according to the usual method. Two other hens were set the same day in the same place and in the same manner on eggs from my own yards, as it seems a waste of time to start less than three of four hens at one time.

The hens on eggs from my own flocks hatched twenty-three chicks out of twenty-six eggs. The hens on the "Atlantic Coast" eggs hatched two days late, one little Red pullet from a shell marked with a leg band number, and with the number 216, indicating the egg record of the hen that laid it. Probably I received my money's worth in this case, for the pullet lived and lived up to her family's expectations. But surely the hatch was a decided disappointment and I reported so, especially to the New Jersey "bred-to-lay" breeder from whose eggs the lone pullet didn't hatch. I examined the unhatched eggs and found their contents mixed up and in a fluid condition. Possibly the express company's hired man somewhere misused these plainly labeled boxes of eggs for hatching, but I could not help thinking that the method of packing was all wrong. I went to the express agent about it, but he could do nothing for me. However, I knew the driver of the express wagon and one day soon after the disastrous hatch, he came in to my office with a law book packed in an almost identical manner, being the same shape, size and general appearance as the "bred-to-lay" egg package had been. He settled my doubts.

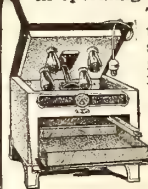
"Say, d'ya know, I thought them there eggs you got awhile back was law books, till I took 'em out in the light and see they was eggs. There's law books coming thru here in this size package all the time."

Later that same season I received two straw-board boxes of hatching eggs from a breeder in Arkansas who had made a good showing in the big laying competition in the "Show Me" state. These came by parcel post prepaid at six plunks per box. Four eggs were broken on arrival. After three weeks and three days lost time on the part of two faithful old biddies I buried the remains, shells and watery contents beneath the ash heap. I did not interview the postal clerks to find whether they and the express driver agreed, and I did not form a very good opinion of the Southern breeder's knowl-

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Hatch 'em by electricity

This energizing force enables you to hatch chicks with but a fraction of the labor and risk involved in operating other machines.



The control of heat, moisture and ventilation is absolutely dependable. No guessing, no watching, no filling of lamps and trimming of wicks. The operation is perfect and insures a strong, vigorous chick from every hatchable egg.

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Make the hatching of chicks a real pleasure. These perfect machines are all metal, fire-proof, odorless, sweet and sanitary. Handsomely finished and may be operated in any room, store or office. Many users place them in the parlor or dining room. They're simple, practical and efficient. Sizes from 50 to 400 eggs. Successful, no worry, hatching insured by doing it electrically. Fully explained in our booklet.

Lo-Glo Hovers successfully carry on the splendid development of chicks started in the right way by our incubators. Sizes 50 chicks and up. Write for free booklet J.

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of England spent
a lifetime develop-
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which is now recog-
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ed egg-producing
strain in the world.
We annually import
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direct from the Tom Barron Plant. Our Tom Barron pens now contain females having individual egg records of 258 to 278 eggs per year and are mated to cocks from a 282 egg hen. From these pens we offer eggs for hatching, baby chicks, early hatched pullets and cockerels at unusually attractive prices.

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French breed of great hardiness and fattening qualities—good breeders. Need no water runs. Extra large type—18 to 25 pounds—can be picked 5 or 6 times a year. Eggs for hatching, single birds and trios.

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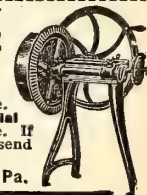
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\$5 NO MONEY IN ADVANCE

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Stratton Mfg. Co., Box 17, Erie, Pa.



Tells why chicks die

E. J. Reefer, the poultry expert, 3813 Reefer Bldg., Kansas City, Mo., is giving away free a valuable book entitled, "White Diarrhoea and How to Cure it." This book contains scientific facts on white diarrhoea and tells how to prepare a simple home solution that cures this terrible disease over night and actually raises 98 per cent of every hatch. All poultry raisers should certainly write Mr. Reefer for one of these valuable FREE books.

TOWN LOT POULTRY KEEPING

By D. D. Cavanaugh

Contains over seventy illustrations and plans of every device a poultry man needs. Complete instructions for building Colony and Poultry Houses, Automatic Release Doors, Trap Nests, Shipping and Exhibition Coops, Hot Water, Hot Air and Fireless Brooders, Automatic Exercisers and Feeders, Troughs, Water Fountains and many other useful devices; also tells how to Produce Winter Eggs, Compound Your Own Food Rations, Produce Feed at 20 Cents a Bushel, Make a Brooder for 1,000 Chicks at a Cost of \$5, How to Brood Chicks Artificially, How to Mate Fowls for Line Breeding, How to Select the Most Profitable Breeds, How to Prepare Fowls for the Show Room and Cure All Defects. Price, 50 Cents a Copy.

Poultry Common Sense

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Containing feed formulas of all kinds, general principles in breeding, home treatment of poultry diseases, natural and artificial incubation in addition, to a complete

YEARLY PEN, EGG AND HATCHING RECORD

These copyrighted records are the result of the combined experience of many prominent and successful poultrymen, and they are the simplest and most complete blanks ever devised. Price of "Poultry Common Sense" with records, 50 cents.

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An illustrated book invaluable for beginners, as it covers every phase of the poultry business in a thoro and condensed manner. If followed carefully you start on the road to success. Price, 50 Cents.

Make Your Poultry Pay

If can easily be done by following **The Briggs Method**, the latest and greatest help for poultry raisers in this new fifth edition of his valuable book, **Profits in Poultry Keeping Solved**, Edgar Briggs tells his wonderful secrets and how he made \$350.00 a month, from 500 Hens.

Briggs did it—time and again. It was no mere accident. Every hen on his place had to pay 70c a month profit, \$8.40 a year, or off went her head. The Briggs System explains how Briggs did it and how you may do it. The simplicity of the Method is truly amazing. Even a few hens will pay proportionately.

Other subjects the Briggs Method covers are: Poultry silage; raising ninety-five per cent of all chicks hatched, running an incubator, erecting the poultry plant, diagrams, pictures, getting early hatches, raising late hatched chicks, getting a large egg yield every month, breeding, feeding, moulting, duck culture, turkey raising, dry mash for little chicks, formula for lice killer, preventing and curing roup, cholera and other bowel troubles, and numerous other secrets of value. Price, \$1.00.

Every Duck Breeder everywhere, beginner or experienced, should possess a copy of the new and enlarged sixth edition of Rankin's

DUCK CULTURE

By James Rankin

Greatest Duck Book Ever Published
100 Pages and Fully Illustrated

Covers every point in incubating, hatching, breeding, feeding, housing and marketing of every variety. Gives Rankin's famous feed formulas. Question Bureau contains 50 questions and answers. Highly authoritative. Price, 75 Cents.

All About Indian Runner Ducks

Latest, most practical and reliable book published on **The World's Greatest Egg Producers**.

The author of this valuable book is Mrs. D. O. Teasley, a duck breeder of national reputation, assisted by Mrs. Andrew Brooks, Mrs. U. R. Fishel, Mrs. Geo. E. Simpson and others, all duck raisers of practical experience, who have been very successful.

This book has separate chapters on the American Fawn and White, the English Penciled and the Pure White Runners, giving the relative merits of each.

Partial List of Contents

Origin and history; the three varieties—English Penciled, Fawn and White and White; claims for the Indian Runner; incubation and hatching; brooding; feeding and care; houses and housing; mating; marketing; questions and answers; duck don'ts, and experiences of duck breeders. Price, 75 Cents.

Order these books from American Poultry Journal Publishing Co., 542 So. Dearborn St., Chicago, Ill.

edge of approved methods of packing eggs.

In March, 1914, I received during a spell of chilly weather fifteen eggs from a Canadian breeder. The basket containing the eggs was split oak, and it had a handle. The eggs were in a fifteen compartment pasteboard box, with bran filling the spaces to take up jar. Excelsior had been packed in the basket and around the box. A piece of burlap covered the top of the basket and there was a pad of excelsior between it and the box of eggs. Not an egg was cracked. It was very evident that great care had been taken in the packing and I had a good hatch. Every chick was strong and grew satisfactorily.

When the 1915 hatching season rolled around I determined to try to profit by the past. I bought a sitting of R. I. Red eggs from a well known Hoosier breeder who advertised his careful method of packing eggs. His method appealed to me. When the package came I must say it was a model of art. Each egg was wrapped in paper and fitted snugly in its compartment in a cardboard box. The box containing the eggs was placed in a large split oak basket, and excelsior was packed tightly all around and above and beneath the egg box. Cheese cloth had been fastened neatly and firmly over the opening and between the cloth and the excelsior was a thick layer of paper, such as is used to wrap light hardware, crumpled and tucked down the edges of the basket. It was somewhat of a chore to unpack the eggs—but of the hatch, the hen broke three eggs, one was not fertile—eleven chicks hatched. I was not surprised, and you may be sure I wrote the breeder and commended his method of packing eggs. I raised every one of the chicks.

Later, mindful of the past, I ordered thirty eggs of a breeder and specified just how the eggs should be packed. Evidently the method of packing requested was not the one in use by this breeder, as the condition of the container when received showed great haste in filling and there was no handle on the basket, but the eggs came thru in fairly good shape and sixteen chicks hatched and grew like weeds.

The foregoing experiences simply go to show that certain facts must be borne in mind by the breeder who would give satisfaction in shipping eggs for hatching.

1. Egg shells are fragile and the contents very delicately adjusted.

2. Heat or cold, but especially rough handling, seriously affect the hatchability of eggs.

3. Paper is protection against temperature, while excelsior or straw and a split wood basket absorb knocks and jars.

4. The container should be distinctive so as not to be likely to mistaken for non-fragile merchandise.

5. I believe the method adopted by my Hoosier friend described above most nearly fills all requirements.

S. C. ANCONAS

Another big winning at the Coliseum Show, Chicago—1st cock, 1st hen, 1st cockerel, 3rd pullet, 1st old pen and 1st young pen, on six entries. At State Fair, Milwaukee, Wis., 1915, they won 1st and 2nd cockerel, 1st, 3rd and 4th pullet, 1st and 4th hen, and 2nd cock, on nine entries. Eggs from four grand pens. Mating list free. Excellent breeding stock for sale. Satisfaction guaranteed.

CORA B. GARbutt

Box 146

Darien, Wis.

EAKIN'S White Wyandottes

A VICTORY
Seldom Equalled

At Great Chicago Coliseum Show
With 130 birds entered, we won

1-2-3-5 Cockerels
1-4 Cock
2-3 Hen
4 Pullet
2 Young Pen
Male, Shape and Color
Special
Best Display

The wonderful uniformity of type and attractiveness of our entire exhibit was the talk of the show. No breeder exercises more care in mating and this tells the tale of our success and makes it possible to breed them better each year. Never have we been able to put in our breeding pens the superior quality found this year. We have a line that reproduce, which means the kind that win. Eggs, \$5.00 per setting. Write for mating list and book orders early.

F. M. EAKIN

Box A - BUCYRUS, OHIO
Breeder of White Wyandottes that are just a little better than the ones you thought were the best.

Chicks that Live

are hatched cheapest in a **Paradise Hatchery**, which is controlled by the only perfect regulator ever created—you can't go wrong—world's greatest hatching method. Don't set a single hen or an egg in any way until you get my literature—start 1916 hatching season right.

WILL REVOLUTIONIZE HATCHING

was the verdict of the Club Members and the visitors at the Owensboro (Ky.) Poultry Show, writes Sec. Carpenter. Another:

"We have used your Paradise Hatchery several seasons with grand results." Another: "We have had excellent hatches of strong, vigorous chicks and it is indeed a pleasure to hatch chicks the Paradise Way." Names given; also, more proof. Success is sure if you adopt the Paradise absolutely no guess work. \$5,000 given away free in 1916 big introductory offers. Nothing like it ever before attempted by a reliable party. Write at once for free literature—do it now. Agents wanted everywhere.



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FOOD for Your YOUNG CHICKS

As your young chicks come off, start them on H-P Chick Scratch, Fine—a great chick starter. Composed of Steel Cut Oats, Rice, Wheat, and other fine grains, cracked to just the right size. It prevents bowel trouble, is easily digested and is suited to the delicate organism of the young chicks. For the growing chick our H-P Growing Mash has no equal. Quickly puts your young birds in first-class show condition and keeps them strong and healthy. Write today for complete information and samples.



Direct from mill to you.

KNOLLENBERG MILLING CO.
Department A Quincy, Illinois

Home and the Table

Good Things for Everybody

Helen F. Woods
Editor

NOT long ago there appeared in the daily papers an appeal to the generous minded to assist in the raising of a \$50,000,000 fund for worn out pastors of the Christian churches. The report stated that \$67,000,000 was really needed at the present time to take care of worn out ministers of the gospel and their families and an itemized account of the needs of each denomination in this respect followed.

While it is altogether probable that such a need exists, in view of the vast army of poorly paid ministers, it is nevertheless a matter which will bear inspection, though perhaps not more so than dependent conditions among other classes of workers. Why there should be a preponderance of worn out pastors in comparison to workers in other callings is difficult to understand. The pastor occupies an unique position among the people. He has more time and supposedly more education at his disposal than the average citizen. He has better rates on many commodities than most of us.

The matter of becoming dependent is to a great extent a preventable one. Health, in most cases, may be lost or kept as the individual decides, or exercises control over himself. And the ability to be helpful and useful should increase as the years pass. Undoubtedly there are lines of work which may be better performed by a youth than by a man of seventy, but it seems reasonable to suppose that a man in, say fifty, sixty

or seventy years should accumulate enough of value as to what it really means to live, to make him invaluable as a leader, or model or helper to the generations coming after him, at least to the extent that he need not fear the discard heap.

On the other hand, if we have not in the first half of life acquainted ourselves with the things of value in life, the remaining years must of necessity become more or less of a burden to others and a desert waste to ourselves.

In fifty years—or less—is it not within the scope of human ability to grasp sufficient of life's meaning or purpose to fit the least among us for some really helpful, constructive work which will aid those who come after us? With the right use of our faculties, and time, and a reasonable regard given the essentials of health, it would seem that the years following the half century mark should prove altogether more helpful and useful to humanity in general than earlier years, and there is reason to believe that workers who have given heed to these conditions may even increase their financial remuneration accordingly with the years. Barring accidents, there is grave reason to believe that dependents in whatever field are largely self-made dependents. There is work enough, and room enough for the workers, and no man, unless he be a helpless invalid, need be dependent upon a fund for "worn-outs". The early part of life should act as a school in which we may

fit ourselves for worth while accomplishment in after years.

There are those among us who fail not at the slightest provocation to register a complaint against the weather. If it is bad, it is "intolerable," and if it is particularly delightful, "watch out we are going to catch it." A good day is somehow, and for some unknown reason, always labeled as "a weather breeder."

A woman told us last week that the days being so short, her washing, white as the newly fallen snow at great sweat of brow, was left out over night to dry. At bed time the sky was clear and cloudless. Before morning a high powered blizzard swept over the land and carried her washing before it. It was weeks before she could pick up the pieces of clothing scattered thruout the community. Here, indeed, was cause for "weather talk."

True, the weather is not to be depended upon and its whimsies are trying. But, while on the subject, we might as well honestly admit to ourselves, that even when the weather man does his worst, and it is not fit for anything else, it is always good for work! To be sure there are certain kinds of work which cannot be conveniently done on a bad stormy day. Husking corn is one, beating rugs, making garden and picking strawberries are others. But every one of us, has a great accumulation of "things" waiting, and sometimes fairly crying to be done. Then welcome the rainy day, the "Snowbound" weekend, the off month—and get at 'em!

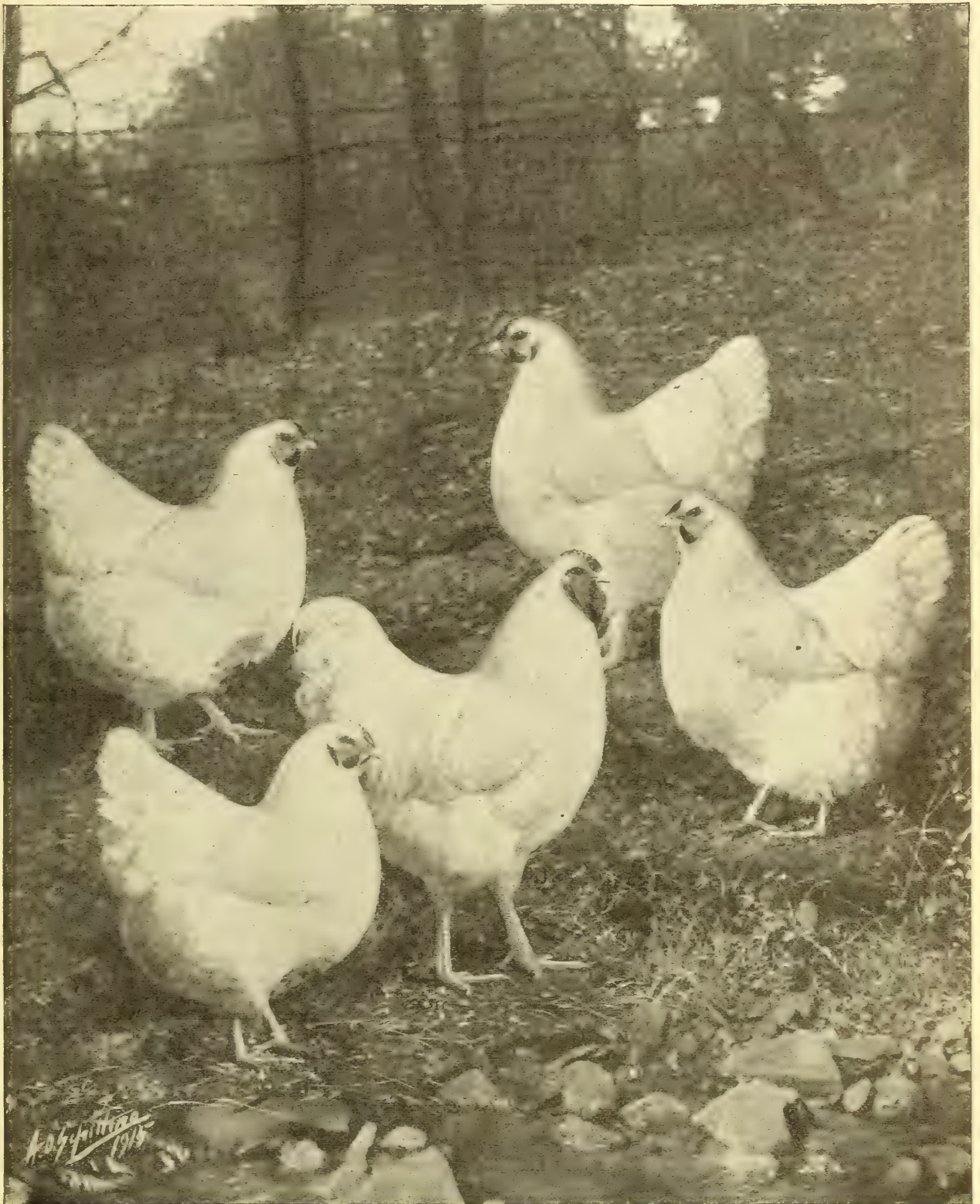
"The Little Red School House" is again prominently before the public, lauded by all from ex-presidents down. There is a tender spot in every heart for the little old building, sunning by the road side. We walked three miles twice daily for a number of years to one of these little red schools, named in honor of President Munroe. We could today traverse blindfolded every step of the original play ground surrounding this school, and point out where each tree, hill side, and "base" of the ball diamond, were in those days. We know each crack in the floor, where every desk stood, how the cobwebs looked suspended from the unreasonably high ceiling, where the water pail stood in its dust-laden corner, how the teacher whipped the boys, where the first Spring flowers blossomed, where at noon we gathered chestnuts, where the maps were "in the closet," how the "Globe" looked on the top shelf. But we cannot remember one lesson from books which we were supposed to have learned while a pupil at this school. We have no recollection of anything ever told us by the teacher, not so much as a story or happening. Oh yes, we remember the teacher very well, sitting by his desk, hearing recitations, or walking aimless-



Cleans churns, hygienically
—purifies every part and
leaves no greasy film

Old Dutch





SECOND PRIZE PEN OF WHITE WYANDOTTES AT
GREATER BUFFALO SHOW BRED AND OWNED BY C S WETMORE, LACKAWANNA, N. Y.

Consequently the Best

At the World's Fair, San Francisco, Nov., 1915

where the country's best birds were gathered for competition, we entered eleven birds and nine were in the ribbons. This wonderful winning was made with our Red Chief Strain of

Single Comb

Rhode Island Reds

You, friend reader, are the judge, wasn't it a wonderful win? Just consider, the leading Red breeders of the country were there; consider that our birds traveled clear across the entire country, yet made the remarkable win of

1st Cock 1st and 2nd Pullet
7th Hen 3rd Pen

Gold Medal for Champion Pullet, all classes competing. There were twenty-nine entries in the Cock class and Red Chief winner of First Cock was pronounced by all judges to be one of the grandest specimens ever shown. At the World's Leading Shows,

Madison Square Garden, 1916
and Boston, Mass., 1916

In the very strongest competition ever exhibited at these two leading shows exhibiting our

White Plym. Rocks

We won at the
GARDEN

2nd Cock
2nd Pullet
5th Cockerel
3rd Pen

We won at
BOSTON

2d, 4th Cock
5th Cockerel
3rd Pen

WHITE WYANDOTTES. We did not exhibit this variety at the Garden show. At Boston we captured 2nd Cockerel and 5th Pen.

You, no doubt, have heard about the "hot" Red class at these two shows. Our win at BOSTON was, 4th Cockerel and 6th Hen; at the GARDEN, 5th Pen. Now, friend, bear in mind that these winnings were made at the largest and best shows of the country, where competition was very keen and where a win means something.

IF YOU WANT STOCK

that will win, lay and pay, get our prices before you place your order. Our prices on eggs and baby chicks are the very lowest; quality considered. Don't even hesitate, write your wants.

MIRIMICHI POULTRY FARM

Breeders of Birds that Win, Lay and Pay

Box 100

Foxboro, Mass.

ly about the room, gazing out the window. We used to wonder if he were as anxious to get out under the trees or sliding down the hill on a "bob" as we were. But there was a wide waste between the teacher and pupil and we never approached him on any matter other than those of unsolvable fractions or the maze of parts of speech. Thru those days "in the little red school," one unfulfilled longing clings to us yet. It was to have that "Globe" taken down out of the cobwebs where a child could get a real look at it! Most of us were "studying" geography in those days, but the "Globe" was never made a part of the lesson. How we longed to actually get our hands on it and send it whirling around as we had early been told the earth actually went. But we never did, and as the longing would not down, not a great while ago, we purchased one of these school room "Earths" and find it of never ending interest to the younger as well as the older members of the family.

In the days when we first attended the "little red school," the play ground extended over quite an area in three directions. On the fourth side, below a high banking, ran the public highway. Gradually the land owners adjoining the school property have encroached upon the public property, until when we visited it a year or so ago, the "little red school" has not enough grounds surrounding it on which to have a game of "tag." All the trees have been annexed by the neighboring property owners, and on the highway side, the banking has gradually washed away until it looks as tho the "little red school" may some day slide off the bare patch of earth upon which it stands.

No, we cannot enthuse over the methods employed in the "little red school" while a pupil there, but it is a real pleasure to recall those strange, never to be forgotten school days, and it would be difficult to reckon the number of valuable lessons learned outside the cut and dried schooling given us there. The "little red school houses" will be held in memory for these things for many years to come.

Any attempt to travel by means of public conveyance during the Winter months opens our eyes to the amount of abuse to which human beings will submit. An overheated car, packed to the limit with human freight—and not a breath to draw. At such times we have sometimes felt that being buried alive in a sealed coffin would not incite a sensation greatly different from that of being one of the mass in the ordinary packed and shut-up car. The officials in such cases are usually very obliging and immediately upon being asked, open a ventilator about five-eighths of an inch, unless, as frequently happens, the car has just been painted and the ventilator sticks. Providing he can get a crack open, what with heavy wraps and furs, we are then able to make the rest of the journey and just come out alive—but with a strong anti-travel feeling within us, until the sweet breath of the Spring and the good old days of Summer make it possible to have real ozone supplied en route at no extra charge per ticket.

BEEF A LA MODE.

By E. C.

Get two or three pounds of beef from the bottom of the round and lard it with strips of salt pork. Try out salt pork in a kettle and add a little

Another Triumph

1st Cock—1st Pullet

At the Greater Chicago Show, January 12-19, Meadow Lark Farm Leghorns kept up their habit of winning firsts in hot competition. Meadow Lark Farm is a commercial egg plant; but we have succeeded, where others have tried, in combining showroom with laying qualities. Our hens MUST LAY. They are perfect enough to beat birds bred for show purpose only.

Meadow Lark Farm S. C. White Leghorns

are the birds you will find most profitable. They'll lay for you when egg prices are high; they'll breed stock able to win in the hottest competition. There are years of scientific breeding back of this strain and the prices are reasonable.

EGGS FOR HATCHING

Get some of our eggs either from our Special Matings or Flock Matings. You'll be more than pleased with the birds hatched. Fertility guaranteed.

LAYING FEMALES

We are prepared to supply a limited number of pullets, genuine Meadow Lark Strain, now laying or ready to lay. These will prove to be a wonderful investment.

BREEDING MALES

Here's a chance to get Cocks or Cockerels that will breed into your flock the quality your birds need. They'll produce layers and winners. Write us your needs.

Send Your Name Today. Ask for Mailing List No. 3

MEADOW LARK FARM

ELGIN, ILL.



Won at
Greater Chicago
Chicago Coliseum
and
Illinois State
Fair Shows

butter. When very hot, put in the beef and sear on all sides, sprinkling it well meanwhile with sugar. When thoroughly browned, add two chopped onions, a few cloves, salt, pepper, parsley, a spoonful or so of canned tomato and two cups of water. A knuckle of veal will improve the flavor, but is not necessary. Simmer for two hours and add a small carrot cut in pieces. When the beef is tender and juicy remove to the oven after inserting bits of bread dressing as for roast turkey, and brown well. Serve with gravy made from the stock.

FILLING FOR LEMON PIE.

By E. C.

This filling is for use with two crusts. Into a double boiler, put one cup of sugar and one tablespoon, heaping, of corn starch. Mix with a little cold water and add one cup boiling water, three eggs, well beaten, and the juice and grated rind of one lemon. Stir until smooth and cook well. Remove from double boiler and use between rich crusts.

HATCH YOUR CHICKENS EARLY.

By F. D. ROGERS.

THE some old advice, which has been given time and time again, yet every season finds poultrymen each fall with all sorts of little late hatched runts which help to a great degree to reduce the profits of the owner.

Of course, a large percentage of these poultrymen are beginners and amateurs who really have had neither time nor opportunity to learn the folly of this practice, while on the other hand, many well-seasoned veterans are annually found in the same boat.

Of course, at times there are reasons, possibly, for so doing. Principally among them being poor fertility in the early spring or merely procrastination to which many of the human family are heir.

The fact that I want to emphasize and make clear is, that ninety-nine times out of a hundred, late hatched chickens are a detriment to their owners from every

standpoint. Commonsense is one of the best antidotes I know of to mix with almost any business, and it well applies in every sense of the word to poultrymen here, there and everywhere.

It is undisputable and most reasonable that the early spring is really the ideal time for the hatching of young chicks, the natural period of incubation for all bird life to mate and reproduce their kind, the season when flower life starts to bloom, the time when the buds burst forth in orchards everywhere, and when the life of all our forest trees yield to nature in form of new life and vigor. This is the right time and proper season to hatch little chicks. Better results will be observed by following this advice.

The early hatched youngsters, if properly brooded and cared for, will be well started toward maturity before the warm sultry weather saps their vitality, as it will do if hatched late in the season.

The cockerels that are not kept for breeding purposes may be marketed early in the year at a good price, the pullets becoming fully matured before cold

Regal Matings for 1916



For the season of 1916 I have mated up twenty beautiful exhibition matings. They are all headed by winning males at the New York State Fair, Boston and Hagerstown, and contain all my exhibition females. My birds are the up-to-date kind—the kind that are winning today. Hundreds of my customers were winners in the shows this winter. No strain has made such consistent winnings in the largest shows.

But this is not all—for years they have been bred for heavy egg production and stamina and it is conceded by all that no strain has a better record for usefulness. Nearly one thousand big, vigorous chicks in my brooder house, many of them all feathered out. The breeders are in curtain front houses and are the picture of health. Upon my show record and the utility qualities of my birds I base my claim that Regal White Wyandottes are the best in the world. Moreover, I send out eggs

from my best birds and you run an equal with myself of hatching the Champion bird of the year. The First Prize Cock at Madison Square Garden this winter was hatched from a setting of eggs I sold in 1914, but this is not the first time that New York winners have been hatched from Regal eggs. Last season I filled one of the largest, if not the largest, order for hatching eggs ever placed in this country. The following unsolicited testimonial tells what the results were like:

Dear Sir:—We assume that unsolicited testimonials are of special value to you. When we determined to establish a line of Wyandottes we made very careful investigation of the different lines of White Wyandottes in this country and decided that yours was the best for our purpose in all respects. The products of the 15,000 or more eggs we purchased from you has justified our opinion. The stock is very rugged and healthy—shows excellent vitality, has matured rapidly and seems to run unusually true to type. We are very well satisfied with the stock and thank you for your kind attention to the order.

Yours very truly,

Skowhegan, Me., July 8th, 1915.

PITTSFIELD POULTRY FARMS CO.

Exhibition Matings

Pens 1 to 20 (as they run), \$5 per 15; \$9 per 30; \$12 per 45; \$24 per 100. Pens 5 to 12 are special matings. Eggs from special matings, \$10 per 15; \$18 per 30; \$25 per 45; \$50 per 100.

500 Cocks, Hens, Cockerels and Pullets For Sale

SPECIAL—50 big, vigorous, stay-white Dorcas cockerels, \$10, \$15, \$20 and \$25 each. Dorcas pullets, \$3, \$4 and \$5 each. Utility cockerels, \$3 and \$5 each.

FREE—20-page illustrated catalog and mating list. It gives full description of my matings for 1916. Send one dime for the "Regal White Wyandotte Book." The information it contains will be worth dollars to you.

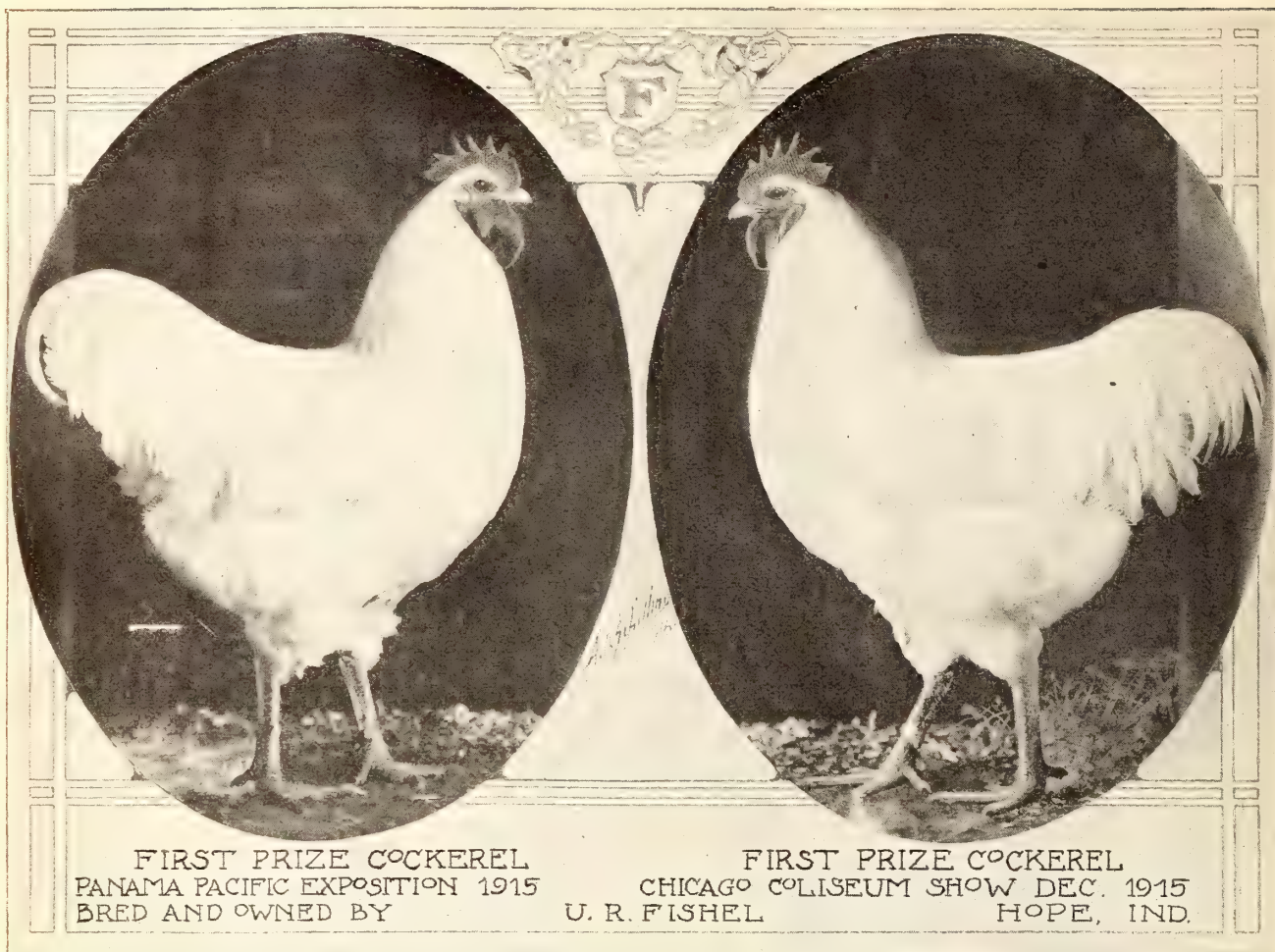
Record Laying Pens (Dorcas Line)

Pens 21 to 30 are headed by males bred from females with high records. Some of these males also have exhibition records. The females in the ten pens are composed of yearlings with trap-nest records from 180 to 224, and pullets of the same breeding. From these pens, eggs are \$5 per 15; \$15 per 50; \$27 per 100; \$50 per 200. Utility matings of vigorous surplus stock, \$5 per 50; \$9 per 100; \$17 per 200; \$25 per 300; \$75 per 1000.

JOHN S. MARTIN

Box 51

PORT DOVER, CANADA



The above photos are of the two White Plymouth Rock cockerels that won first prize at the Panama-Pacific Exposition and Chicago Coliseum shows in 1915. Mr. Fishel has won first on cockerel at every show where he has exhibited for the past two years.

weather prevails in the fall. My suggestion is, hatch the heavy varieties in March, and those belonging to the Mediterranean class not later than April or early May; and if I had to choose between February and March hatched Leghorns to those in June and July, I would prefer the ones hatched early in the season, even tho they start to lay in August and go thru a slight moult, the eggs laid at that time may be marketed at a good price, and these particular females will make excellent breeders; nearly as good as yearling or two-year-old hens.

Late hatched chickens are a nuisance from every standpoint, running and trying to grow, in most cases with older

birds, they are run over and become half starved; the fall season finding the breeder with a lot of stunted weaklings that never properly mature or prove of any value to him. Furthermore, it is a great advantage to hatch as many as possible at one time, reducing the labor from every standpoint.

If your breeding pens contain enough females, it would pay you to increase your incubating facilities and hatch as many as possible at one time, as they will grow and do much better.

It is preferable to keep as far as possible all chicks of one age in a flock. Then, as before stated, the young cockerels may go to market and be out of

the way at one time, instead of making several jobs of this part of the season's work.

Many articles appear, advising late hatched chickens that may look good on paper, but let me again emphasize and make clear that from many years of personal experience and observation, that it is a mistake from every angle, and I believe one of the principal reasons for losses and discouragement that poultrymen contend with year after year.

Reason it out for yourselves and take the advise we offer and you will become pleased and benefited, indeed, and best of all, find a better balance in the ledger at the end of the season's work.



WETMORE'S WHITE WYANDOTTES

VICTORIOUS WINNINGS

From the great Pan-American Show in 1901 up until the present day, my White Wyandottes have won consistently their share of Sweep Stakes, Championship and coveted prizes. Recent Winners at the National White Wyandotte Club Meet at Buffalo, 1915.

300 GRAND WINNING SHOW BIRDS

The finest I have ever produced are now ready to win blue ribbons for you. In exhibition cocks, hens, cockerels, pullets and pens I can furnish you winners at bargain prices. Liberal guarantee on all Sales. A square deal to all. Buy NOW.

C. S. WETMORE

906 Abbott Road

LACKAWANNA, N. Y.

Buff Orpington Eggs

\$5 per 15 \$9 per 30 From best pens

Start with the best — for exhibition purposes or for eggs. Big winners everywhere — not once but for seven consecutive years.

O. M. ABBOTT, Box 10, Whiteland, Indiana

IN THE INTEREST OF POULTRY CULTURE.

A Problem to Be Met, Faced and Solved with Truth and Fair Dealing to All Concerned.

By GEORGE A. HILL, Washington, D. C.

THE problem of poultry culture in this country is involved in two conditions: 1. Poultry bred exclusively for exhibition, to a Standard of Perfection. 2. Poultry bred to a Standard of uniformity and maximum value in egg yield and meat production, with little regard for minor exhibition points.

It is extremely unfortunate that this is so, as it is opposed to the best interests of the "industry," and we do not find such conditions in the production of other flesh food products as beef, sheep and hogs.

The question arises is the unit from which poultry meat and eggs are produced, to be perfected and developed for the purpose of following the demands outlined in the Standard of Perfection, that the unit shall weigh so many pounds in the variety, that its feathers shall be of a certain shade of color in the variety, that it shall carry its tail at a designated angle, that the ear-lobes, comb and wattles shall agree with a drawing made by an artist, that the shape of the bird shall copy this drawing, or in a single line is this unit to be something for the fancy to build up to a work of art and then assume that it will produce profitable meat and eggs?

On the other hand, is this unit to be developed so as to secure best quality of meat and maximum quantity of eggs, with the unimportant fancy requirements cut out? In the answer to these questions is involved over \$400,000,000 in annual value for the producer to produce and for the consumer to buy.

The first condition is what most fanciers appear to be longing for. The second is what the practical working poultryman, who wants results and a living from poultry, is striving to obtain.

Several years ago the American Poultry Association had placed before it, as an organization that from its very name should foster the poultry industry upon broad lines, the issuance of what was to be called a "Utility or Market Poultry and Egg Standard." The pressure for its publication was strong, so much so it could not be held back, altho there was opposition from the fancy. A committee was appointed from the membership of that association, and that only, to prepare the text of such a publication. That committee had meetings and meetings, and it may be still holding them for all that is known by those who are vitally interested in such a publication. But this much is known, the committee has never submitted manuscript of the Market Standard to be published by the A. P. A. In the opinion of many it was never intended that such a book should be published. However, the handwriting is on the wall, and if Association members do not see the significance now, they will in a few years when the farmer boys begin to make themselves heard and felt.

Take the statement that "every successful utility poultryman knows that his breeders must at least approach Standard requirements to maintain profitable production year after year." He



BABY CHICKS

OUR 12TH SEASON SHIPPING CHICKS

WE furnish chicks hatched from the best Utility and Exhibition Stock. Our stock all have free range, thus insuring you good strong chicks.

Now is the time to place your orders for March and April deliveries.

	Per 25	Per 50	Per 100
S. C. W. Leghorns.....	\$2.75	\$5.00	\$10.00
S. C. B. Leghorns.....	2.50	5.00	10.00
B. P. Rocks.....	3.00	5.50	11.00
R. C. I. Reds.....	3.25	6.50	13.00
Broiler Chicks.....	2.00	4.00	8.00

Partridge P. Rocks, 50c each; can furnish only a limited number of this variety.

We also have a coal burning Colony Brooder that will successfully brood your chicks. Be sure to get our FREE illustrated catalog and price list.

20th Century Hatchery, New Washington, O.

BOX 2

(Formerly of Chatfield, Ohio.)

S. C. BUFF ORPINGTONS

WINNERS

ALLENTOWN:

Ck. 1-4; hen, 1-2; ckl. 3-4; pullet 1; pen 1-2

PHILADELPHIA:

Hen 1; pul. 1; ckl. 2; ck. 4; pen 2. (5 entries)
N. Y. State Fair, Hagerstown, Washington,
Grand Central Palace.

LAYERS

Established a 229 Egg Record in Third North American Egg Laying Contest.

Led National Missouri Contest, November, 1915. Won cup for month.

CHOICE BREEDING STOCK

200 Pullets, \$2, \$3, \$5
Trios, \$10, \$15. Pens, \$15, \$25.

WRITE US
TODAY
for Circular

EGGS FOR HATCHING

\$1.50, \$3, \$5, \$8, \$10
From Finest Pens Ever Mated

OLD FORGE BUFFS are noted for their wonderful Type, Color and Egg Producing Qualities. (Satisfaction is absolutely guaranteed)

OLD FORGE POULTRY FARM, SPRING GROVE, PA.



CHICKS

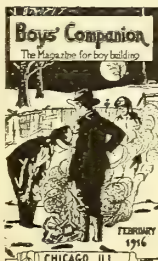
Honest Chicks and Honest Treatment

Chicks that are guaranteed true to name and to reach you in right condition. If we fail to give satisfaction report us to this publication. We furnish

Rocks, Reds, Orpingtons, Leghorns, Wyandottes, Minorcas, S. C. White Leghorns in quantity

Write for descriptive catalog, stating wants if you desire further information. Printed suggestions for brooding and feeding furnished on receipt of order.

Standard Poultry Co., Route 3 Nappanee, Ind.



The Boys' Companion

A Boy's Paper at a Boy's Price; Only 25 cents for one year. (Monthly)
A Real Boys' Magazine, with more departments of interest than any other boys paper, 32 large pages of clean, fascinating stories and special articles, in addition to our 12 regular departments — Wireless and Electrical, Aeroplane Model Builder, Hunting, Trapping and Fishing, Farming and Gardening, Athletics, Fun and Magic, Photography, How Boys Make Money, Stamps and Coins, Poster Stamps and Amateur Journalism. The best Boys' paper in the country. Lots of pictures. One number may enable you to make many times the small subscription price.
Send 25 cents at once for one year's subscription and we will send you a Set of 10 Chicago View Posters Free; Six months 15 cents; Four months for 10 cents.
Boys' Companion, 1132 The Temple, Chicago, Illinois

Boys' Companion The Official Organ of the Anti-Cigarette League of America

Speak for Themselves



Photograph
unretouched

SHEPPARD'S FAMOUS ANCONAS

Are the standard by which all Anconas are judged. They speak for themselves. At the leading show of the world, Madison Square Garden, New York City, Sheppard's Famous Anconas have won three times as many first and second prizes as all other Ancona breeders together, during the past nine consecutive years, which proves beyond a doubt that they are

The World's Best

At the 1916 Madison Square Garden Show, we won eight First prizes, seven Seconds, six Thirds, six Fourths, five Fifths. Now is the time to send your order for some good hatching eggs, or some breeders and get ready to win next year. Prices reasonable.

Champion Layers

Sheppard's Famous Anconas are greater winter layers and have a wonderful record of **256 average** for a flock.

Your order will have my personal attention—write at once—Catalog on request. Stock, Chicks or Eggs for sale.

H. Cecil Sheppard

President International Ancona Club

See my ad on opposite page
and opposite front inside cover.

Box M-2, BEREA, OHIO

knows no such thing. What is there in the Standard that indicates the breeding bird, even to produce exhibition specimens? It is solely a somewhat imperfect description of ideal exhibition specimens, with a summary of defects and disqualifications considered only in show competition, and not then observed by all judges. There is nothing in the book that indicates that it is a guide to better meat and eggs, or that the descriptions were designed to promote improvement in meat or egg production.

Some fanciers never speak of utility poultry except with scorn and up to the inauguration of laying competitions, *that had behind them a permanent organization*, they did not care whether their pullets laid two dozen eggs a year or not, so long as they could sell a cockerel or pullet whose sire had won a blue ribbon at a show.

Laying competitions have proved that the weight or color of individual birds does not indicate the best layer and these contests are not utility shows but are pure bred poultry tests, and the hen or pullet that cannot display her worth in that test is either fancy or mongrel. How many fanciers, who claim that Standard of Perfection birds lay better than those not in the exhibition class, have ever entered their stock in a laying contest or proved the laying qualities by authentic test?

It does not help any to cast slurs on these competitions. Such action will only react and hit the one who makes the charge that the contest is not above suspicion. Advertisements of fowls or pullets as prolific layers, not backed by sufficient proof, are misleading and calculated to deceive the buyer. Laws will soon regulate such advertising. Missouri has already started the ball rolling.

The American Poultry Association was organized in 1873, but the early Standards—except for a book with line drawings that brought forth a howl of protest—were not illustrated. The first really illustrated edition was published in 1905-1906, or thirty-two years after organization. Compare the illustrations in the editions of 1905, 1906, 1910, 1912 and 1915. The illustrations of the same variety are not the same. There have been changes made in them. Is there anything in the printed text that says the changes were found necessary, because the later pictured and described poultry were shown to be better in quality of meat or laid a large number of eggs? You won't find any such statement.

But, one the other hand, if you study the history of the A. P. A. you will learn that the illustrations, as proofs, were passed around to members of the association, and that those men decided simply upon *opinion* what should be shape, color, weight and so on, of the poultry of each variety. Would an association of milch cattle breeders use similar *opinion* as a basis on which to build a standard of milk yield and butter production? Or would they insist on records of actual performance?

Before we pay much attention to this cry for "better poultry and more of it" there should be a house cleaning in the affairs of the sponsor for our poultry Standard of Perfection. Get started *right* and it will then be possible to increase the membership of the Association to what it should be, and would be if values were rightfully judged.

There is unimpeachable evidence to

show that the Standard of Perfection is not a guide book to breeding exhibition poultry, it does not show how to breed, but merely describes ideals—a collection of "recognized" ideals, based on *fashion* and *opinion*—nowhere does it show where, or how, to obtain better meat values or better egg production, or large sized uniform eggs; nor is it anything but a compilation of rules and descriptions, which a judge should observe in the show room when judging exhibition poultry in competition for prizes—a purely fancy affair.

There lies the stumbling block between practical breeders of pure-bred poultry for useful purposes—furnishing an important part of the food supply of the nation—and the fanciers who breed for fancy only, or to sell fancy stock to others. There ought to be brains enough in this great nation to produce a book on pure-bred poultry breeding, that would be national in character, would cover the subject of producing better meat and greater egg yield, be based on actual facts and not simply exploiting the selfish interests of a little coterie of fancy breeders.

Of all the foolish statements ever made, the one continually harped upon, that if it were not for the Standard of Perfection pure-bred poultry would go to mongrelism, is about the limit. The 300-egg bird of 1914 was one that would have as much chance of securing an award, when judged by the Standard, as would a turkey in a Leghorn class. How should one judge the Leghorn that made a record of 314 eggs for the year ending in October, 1915? Is the egg record the acid test? Or shall we leave it to the judge, who has to be on the alert for bleached feathers, painted feathers, surgically treated combs, and the holes in shanks or feet where stubs have been pulled? How about the judge who resigned because, in order to apply the law of the Standard, he must throw out of competition birds that are "priceless as breeders?"

You can discuss this matter as you please, but you will find that 99% of buyers want utility values and want eggs from prolific layers, and some fanciers will tell us that they have them because they follow the Standard of Perfection in breeding. Is there any other flesh food product that, when passed upon by the judge, is disqualified *because qualified*—where there is such lamentable ignorance shown that stock "priceless as breeders" must by Standard be disqualified?

A fine score by a judge in the show room is no indication whatever of egg laying or meat producing values. Why mislead beginners by telling them that Standard points indicate laying or breeding values?

We farmer poultrymen can read and we can go direct to the heart of a condition too and size it up. There are many plants of many poultrymen in overalls; they may never show a bird—and I am one of them—but nevertheless they have layers that are giving splendid returns on the investment and these layers have received the stamp of approval in the tests of the laying contests. These men are selecting the prolific layers and placing them as breeders where results will be accomplished, not a gamble or a disappointment but real results in more eggs and better poultry meat to sell as food. "It is time that we pay as much attention to breeding for meat and eggs as for fine feathers."

ANOTHER GREAT RECORD

Three Generations of Sheppard's Famous Anconas

Looks Mighty Good, Doesn't It?



These are the birds that are world famed as winter layers. They have the wonderful record of 256 average for a flock. That is why my customers call them egg machines.

The pullets in the picture below were hatched from eggs laid by my birds in picture above, when parent birds were only four months, fifteen days old.



Here are the pullets that laid when four months, seven days old. Their eggs hatched these wonderful youngsters shown below, producing three generations in less than one year, making a record that stands alone.



Sheppard's Famous Anconas are bred to make good, both in the show room and as layers. They have made good for me. They will do the same for you. Stock, Eggs or Baby Chicks for sale. Send for our 86-page catalog which will be mailed upon request.

H. CECIL SHEPPARD, Box M-2, Berea, Ohio

See my ad on opposite page and opposite front inside cover.

LILY WHITE STRAIN S. C. White Leghorns

THE WORLD'S BEST LAYERS

This is our sixteenth year in trapnesting and selecting breeders from high producers of S. C. W. Leghorns. We breed contest layers from our 52 pens of dams with records of 200 to 268 eggs. We can furnish a large number of Hatching Eggs and Day-Old Chicks from these pens. Also have many pens of yearling hens with records from 150 to 200 eggs at prices that will astonish you. Our catalog will tell you how to make them grow and pay. It's free for the asking.

LILY WHITE POULTRY FARM

J. F. Best, Manager

SAGINAW, MICHIGAN

BIG PROFITS in Poultry

If You Know How. Get This FREE BOOK and Learn How

We have facts and figures on poultry culture that we want to put before every man and woman interested in raising chickens. Whether you are an old hand at the business or just beginning—whether you have been successful or not—whether you have an extensive poultry plant or are raising a few in a city back yard we have money making information for you. We want to show you how you can succeed and make a splendid income from poultry. We are the largest and best equipped exclusive poultry school in the world and we have in our course of 48 complete lessons made it possible for you to learn the poultry business in a scientific yet practical way.

2354 Eggs From a Pen of 10 Hens in a Year

In our lessons Director Quisenberry of the Mo. State Poultry Experiment Station gives you the methods he uses to secure such marvelous results. He tells you how he got 2354 eggs from a pen of 10 hens in one year—he tells you how to build practical and inexpensive poultry houses—how to feed for a big egg and meat production—how to treat poultry diseases—how to mate and breed—how to dress and market poultry. In other words you get all the knowledge necessary to make you a successful raiser of poultry. Nowhere else can you get such a course of instructions in poultry culture. No other school has behind it men of such prominence and experience in the poultry business. But send today for our Free Book "Dollars and Sense in the Poultry Business."

American School of Poultry Husbandry, Box 51, Mountain Grove, Mo.

NOTHING JUST AS GOOD

Red Star Brand Fish Scrap

It is a necessity for success—aiding growth and development: its merits are far reaching.

FEED IT REGULARLY

Used with success by hundreds. It supplies all that poultry desires for best results. Catalogue on application. BEWARE OF IMITATIONS.

INTERNATIONAL GLUE COMPANY Dept. A BOSTON, MASSACHUSETTS

CHICKS 400,000 FOR 1916

From winners at the largest shows and heavy layers for several generations. Ten times more fresh air goes through our incubators than any other system giving you greatest vitality in chicks. S. C. & R. C. White Leghorns & S. C. Brown Leghorns \$10 per 100; \$5.50 per 50; \$3 per 25. Barred P. Rocks, White P. Rocks, S. C. & R. C. Black Minorcas, White Wyandottes, S. C. & R. C. Reds, S. C. Anconas \$12.50 per 100; \$6.50 per 50; \$3.50 per 25. Our ninth season. Safe arrival and satisfaction guaranteed. Cleveland Hatchery, 7916-18 West Madison Avenue - Cleveland, Ohio.

GOLDEN PENCILED HAMBURG

The Fancier's Fowl. Won the Principal, Regular and Special Prizes at Madison Square, Boston, Palace. A few birds for sale. No eggs.

JOHN A. GAMEWELL

::

Box 2

::

LITTLE SILVER, N. J.

THE PROFITABLE S. C. WHITE LEGHORN.

A Contest Article. — How to Breed Them for Exhibition Beauty and Preserve Their Valuable Qualities.

By GLEN WALTZ, Canton, Ill.

THE Single Comb White Leghorn is, no doubt, the most popular and profitable fowl bred in the world today. Their ability to produce a large yield of eggs at a minimum cost places them in this class. Because the Leghorns are great foragers, they require less feed than any other good laying fowl. They make good broilers at eight weeks, and begin to lay when about five months of age, being unexcelled as egg producers. The results of the various egg-laying contests show the Single Comb White Leghorns always in the lead, year after year. The world's record of 314 eggs laid in 365 consecutive days is held by a Single Comb White Leghorn hen. As the profits in poultry raising lie mostly in the egg trade, it is no wonder that ninety per cent of the egg farms in the United States are stocked with Single Comb White Leghorns exclusively.

Whether you keep twenty chickens in



The electric incubator is so clean, simple, safe, and produces such uniformly good hatching results that it is rapidly coming into favor with poultry users where electricity is available. The Electric Specialty Co. of Salt Lake City, Utah, are manufacturers of the machine represented in the above picture.

the back yard, or a thousand on a poultry farm, the Single Comb White Leghorns will answer your every need. It may cost a little more to start with Standard-bred Leghorns than it does to start with "just chickens", but the results in the end will more than make up for the difference. Besides getting far greater pleasure and satisfaction in caring for your flock, you will be sure of having hens and pullets that will give a good account of themselves in the nest. If care is used in mating the breeding pens, you should produce some exhibition cockerels and pullets that will win the blue, and they always command a fancy price. This will help to keep the balance on the right side of the ledger.

The Leghorn has long been one of the most popular exhibition fowls—they can please even the most particular fancier. What is more beautiful than the Single Comb White Leghorn males and females that are being exhibited in our national shows today? The desire to produce these beautiful exhibition specimens, as near the Standard of Perfection as possible, results in a very careful study of the individual males and females that go to make up the breeding pen, and much time is generally spent in selecting the proper birds that, when mated together,



will produce the best results. When mating Leghorns to produce exhibition birds, never lose sight of their great utilitarian qualities. Never use an undeveloped bird in the breeding pen. Use the best layers you have for your breeders. The main points to be considered in selecting the birds for the breeding pen, and their order of importance, are: vigor and type, blood lines, shape, and color. It is very important that the birds are vigorous and well developed. The better the birds in this respect, the better will be the vitality of the young chicks. Blood lines play an important part in the preserving of certain desirable qualities in the flock, whether in fine exhibition points, or certain egg-producing qualities. Scientific line breeding, not inbreeding, has proved a success on many of the largest S. C. White Leghorn farms throughout the country. The shape and color of the breeders should conform as near to the Standard as possible.

To produce exhibition cockerels, use a male that stands well up on a good pair of yellow shanks, set well apart. He should have a very prominent breast; small, smooth comb with five deep serrations; a deep red eye; almond shaped, smooth white ear lobes; long concave back; and low sweeping tail, well furnished with coverts and saddle feathers. He must be chalk white in all sections. With such a male, use females with a straight five-point comb, set firmly on the head; red eye; well rounded breast, yellow legs; long back, with good cushion; tail well spread, and carried slightly lower than that of the male; chalk white plumage thruout.

To produce exhibition pullets, select a male similar to male in cockerel mating, with very thin, fine textured comb; well spread tail, but no excess of saddle feathers. Use females similar to those in the cockerel mating, with fine evenly serrated comb; low, well spread tail, with no cushion.

Such matings should produce a large per cent of exhibition birds. When possible use males out of heavy laying dams, and females of known laying ability, and in this way increase the egg productiveness of your flock. Some people think that an exhibition S. C. White Leghorn is not a heavy layer, and that a heavy layer is not an exhibition bird. I have always found this to be quite the contrary. The very birds that win the blue in the show room, go right into the breeding pen, and are the heaviest layers. The leading Leghorn breeders thruout the country will substantiate this statement. We hear of heavy layers that have high and pinched tails, but this, I believe, is a result of some previous mating, and not the result of heavy egg production. With careful mating these birds can be bred so that their offspring will carry their tails as the Standard calls for, and still retain their high egg-producing qualities.

If the White Leghorns are properly housed in an open-front type house, and are properly fed and cared for, they will be as docile as any other variety of chickens. If plenty of fresh air is supplied the fowls, there will be no frosted combs and the females will give the maximum yield of eggs, as fresh air is the best poultry tonic known.

To the beginner: If you want the one best breed of poultry, try the Single Comb White Leghorns, the most popular and profitable exhibition and utility fowl on earth.

The Real Champions of America



Princess Efficiency
1st Hen and color special; Champion Female Barred Rock, Chicago Coliseum, Dec., 1914. Cut made from unretouched photograph.

At Hagerstown, Chicago, Chattanooga, Panama-Pacific Exposition, Memphis, Atlanta, New Orleans, and scores of other shows, my birds have been judged by many judges and have made wonderful records. "ASK THE JUDGES" about

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My "Hall of Fame" contains dozens of blue ribbons, cups, A. P. A. gold medals, color and shape specials, trophies, championships and sweepstakes prizes. These great winnings have been made by birds owned, bred and exhibited by me.

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MAMMOTH PEKIN DUCKS :: :: EMBDEN GESE**

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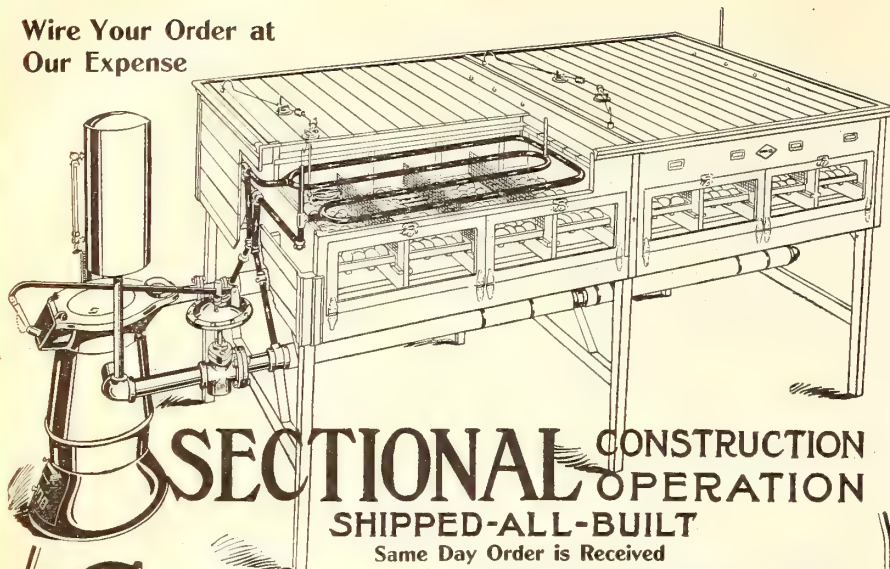
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Great winter layers. The fastest growing fowl in existence, having the largest per cent of the finest flavored flesh to offal of any breed, making them the King of utility fowls.

At Quincy last November I won three blue ribbons on three entries—cockerel, pullet and pen.

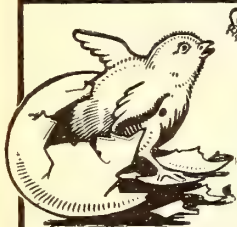
I have two pens of this great variety from which I can spare a few eggs at \$5.00 per 15.

Pen No. 1, headed by 1st pen cockerel at Quincy and a son of last season's Crystal Palace champion bird.

Pen No. 2, headed by a son of last season's Buffalo winner.

These two males are mated to my Quincy winning females and daughters of Crystal Palace, Madison Square and Buffalo winners. Free mating list ready soon.

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Strong, Healthy Baby Chicks, or Eggs For Hatching — White Wyandottes

Our White Wyandottes are utility birds and are not like some so-called utility stock that consists of birds culled from flocks raised for exhibition purposes only. If you want stock that will lay well you must breed them for that purpose.

Come and see these birds or write for catalog giving list of matings, records and prices.

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S. C. WHITE LEGHORNS

Trap-nest record of 265 eggs in one year. Every breeder has proven to be a record layer. Eggs and baby chicks for sale. Every female in four of my breeding pens laid over 200 eggs as a pullet. Prices reasonable, FREE booklet.

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RECOGNIZED WORTH OF THE S. C. W. LEGHORN.

By JAMES KEPPIE, Petaluma, Cal. . .

WE HAVE heard a great deal, and read much praise in the past on the S. C. White Leghorn, but the more I hear and the more I read about them, always seems to leave a feeling of more and more.

Anyone interested in poultry of the active hustling sort cannot help but admire the Leghorn. From the fancier's point of view, the S. C. White Leghorn is one of the neatest, classiest and proudest little birds to be seen anywhere. The beautiful lines of the male bird attracts the attention of lovers of bird beauty and the exhibition female shows to perfection the clean cut lines and beautiful curves characteristic of the breed.

When talking with the Leghorn fancier and breeder he never forgets to tell you of their wonderful laying qualities. He cannot help it, for this characteristic stands out so prominently in the S. C. White Leghorn, where we have a bird that is decidedly useful as well as ornamental.

Petaluma, California, (The Egg City), is the home of over two million S. C. White Leghorns and here we find the little business hen at her favorite job of shelling out thousands of white shelled eggs every day. She is never happy unless she is laying. Here in Petaluma she has actually paid for thousands of comfortable homes, and she has made Petaluma and surrounding country exactly what it is today, a thriving up-to-date little valley of over 30,000 families. Do you think for one moment that you could induce those prosperous poultrymen to keep any other breed than the S. C. White Leghorns? Well, I guess not, for many have tried other breeds—but not for long!

We can now find large commercial egg farms in this country from coast to coast, and from the Great Lakes to the Gulf, stocked with these active little layers.

The White Leghorn baby chick is a decidedly hardy chick. He is a fast grower and as a broiler he certainly "takes home the bacon." With proper care and feeding, the Leghorn cockerel in ten weeks will carry from one to one and one-half pounds of the most delicious, sweet, juicy meat you ever ate. The pullets with proper housing will start to lay at from four and one-half to six months of age, and as a rule will lay heavily thruout their pullet year.

It has been proved that a Leghorn does well and thrives under all kinds of housing conditions and environments. I have seen her doing wonderfully well in the smallest houses, and remarkably well when kept confined in a long laying house in flocks of 900 to 1000. When out on range she is truly in her glory under any and all climatic conditions, for everywhere you will find the little White Leghorn hen always in the first line of trenches shelling out the big white shelled bullets that shoot gold into the pockets of their owners.

Silver Wyandottes

"There is Money in Silvers"

I WILL SELL EGGS \$3.00 for 15
\$5.00 for 30

I have a splendid lot of big, open faced birds—splendid layers. Also can spare a few high class show birds. Correspondence invited.

HENRY STEINMESCH

ST. LOUIS, MO.

UNCERTAIN FACTORS IN BREEDING.

Interesting Opinions Expressed by Edward Brown and Thos. W. Sturges in The Feathered World, England.

At the last Dairy Show a pen of fowls was exhibited described as Mendel fowls. sometimes the question is asked, "What's in a name?" In spite of statements frequently made indicating that the name is a negligible quantity, it may be pointed out that a good name or title helps greatly from an advertising or publicity point of view. Therefore, should this prove to be a new breed, one with permanently distinctive qualities commending it to poultry breeders and keepers, the name referred to appears to be a wise choice, for the term "Mendel" is one to conjure with. The primary need, however, is that behind the designation there shall be profitable qualities, which can be maintained and perpetuated in successive generations, without which no combination can hope to win its way. New breeds are required from time to time, and efforts to extend the range are desirable. But these must be distinctive,



R. C. Rhode Island Red. Quincy Poultry Farm, 2700 Maine St., Quincy, Ill. They also breed S. C. Reds, S. C. W. and Brown Leghorns, Black and White Orpingtons, White Wyandottes and Barred Rocks, all on separate farms.—F. D. R.

and have that degree of virility or constitutional vigor that are liable to be lost after many years of breeding on closer lines of affinity.

The fowls referred to are specially interesting for two main reasons, first, that the originator claims to have made a close study of scientific breeding, and is seeking to demonstrate the views he holds in this very practical manner, and, second, that he has frankly stated the combination of qualities he is seeking to secure. The latter concern us now, for, should the effort be successful, it will, so far as I am aware, be the first success in this direction. The evolution of new breeds has generally been more or less haphazard.

Apart from color of plumage—white—and class of comb—single—the points aimed at are: (1) White flesh and legs, so as to get a good if not large table bird; (2) tinted-shelled eggs; and (3) that it shall be a non-sitter. The first and second of these are not incompatible. In fact, they are both to be found in several breeds and varieties, of which the Orpington and the Malines are examples among more recent creations. The first and third are to be met with to a lesser

Used Twelve Candees - Best Results Ever



Houses in which Candee Colony Brooders are operating on the big Hudson River Farms, Inc., Esopus, New York.

"It gives me pleasure to say that we have about 10,000 pullets, the best we have ever had. Everyone is a picture of health and vitality. All these pullets were hatched and brooded with the Candee 10,800-egg Incubator and Brooders. The 12 Candee Colony Brooders installed this season have given us the best of satisfaction.
S. Yadlooker, Supt., Hudson River Farms, Esopus, N. Y., June 17, 1915.

The Brooder for Beginner as well as for Expert

The fact that Candee equipment is selected by experts like Mr. Yadlooker, who carefully investigate before buying, is one of the best recommendations that can be made for the Candee Colony Brooder. Hundreds of beginners also, with flocks as small as one hundred and fifty chicks, have selected the Candee because it insures better results. It is absolutely safe and will raise more chicks. It is simple to operate and requires little attention.

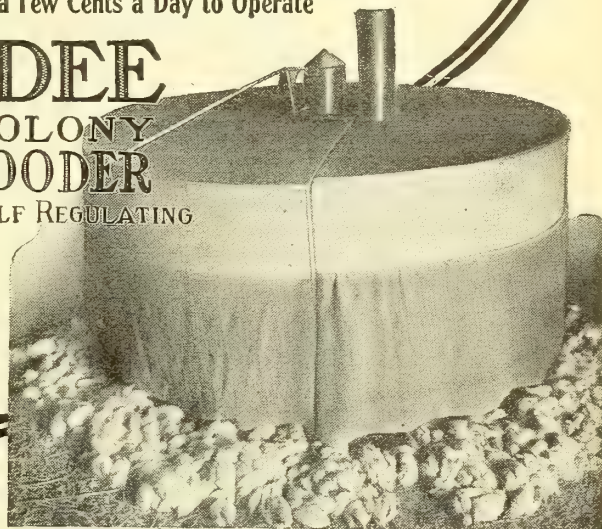
Many beginners in poultry get discouraged because they lose so many chicks with improper equipment. You can start with the Candee Colony Brooder, operate it in any house, brood as few or as many chicks as you like up to 500, and it will never wear out but encourage you each season to raise more and more chicks with ever-increasing profits.

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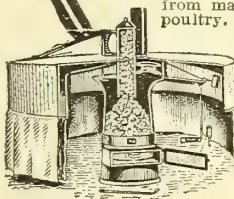
Regulation—Thermostat not affected by chicks jumping on it. Automatically and quickly regulates draft to meet sudden weather changes and compels a correct temperature all the time.

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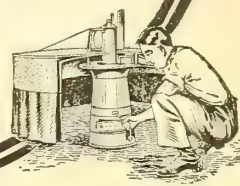


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S.C.B. Minorcas

that have size and quality. Winning three success-
ive years at Quincy show. Eggs for hatching; write for prices.
Grover Degee, 814 Jefferson St. Quincy, Ill.

extent. Still, there does not seem to be any actual antagonism in nature against them, altho in the greater number table qualities and expression of the maternal instinct are usually found in association. That may, however, be incidental, not functional. Hitherto the second and third in combination has not, so far as I am aware, ever been seen as definite qualities combined in any pure breed.

A WARNING NOTE.

In this connection it is necessary to keep in view the fact that crosses prove little or nothing. I have seen and bred those which laid deeply tinted eggs, and yet did not become broody, so far as the first cross was concerned. *Later generations upset the entire scheme.* Until and unless any quality or combination of qualities can be expressed and maintained in a breed, capable of reproducing in successive generations parental type, coloration of plumage, etc., and the distinctive qualities of the original stock, no real or useful result will be achieved. And it is there the problem lies, one that cannot be solved for at least five, perhaps more years.

Two or three years ago announcements were made that in the biological department of Cambridge University the combination of tinted shells with non-broodiness was being attempted. A measure of coloration of shell was secured, and absence of desire to sit, in the first cross. How much more has been arrived at is not known, but from the absence of any reports I can only assume the results do not justify publication.

The eggs I saw at Cambridge were very pale in tint, and those laid by the Mendel hens are weak indeed in that respect. These are light buff, very far from the brown egg which the market asks for, and without which aim No. 2 will not be realized. In fact, I am inclined to the opinion that a really white-shelled egg is preferred by consumers to one of these washed-out so-called colored eggs that, in the respect named, are neither white nor brown. The very difficulty of achievement, however, will be the originator's greater glory if he should achieve his object. Such would be a great triumph for Mendelism, the value of which in practical poultry-breeding has yet to be demonstrated. In this is assumed that there shall be vigor of constitution and prolificacy as egg producers. Possibly, the originator is adding to his difficulties by seeking to combine a high development of fecundity and of meat qualities. That is a question which need not now be discussed.

EGG-SHELL COLORATION.

Two facts appear to stand out, namely, that in many instances, unless specially bred for, as the number of eggs is increased in any breed or individual there is a marked loss of color in the shells, that is, if the breed is one laying brown eggs. At the same time many of the best table breeds lay pure white eggs and others brown, tho there is no reason why they should do one or the other. On the other hand, all those races included among non-sitters without exception produce white-shelled eggs. If one has nothing to do with the other the coincidence is indeed remarkable. It is all, indeed, a jig-saw puzzle, seemingly impossible to fit together, tho, if we only could see farther, there must be an explanation.

For years I have been trying to obtain light on this question of egg-shell coloration, so far as domestic poultry

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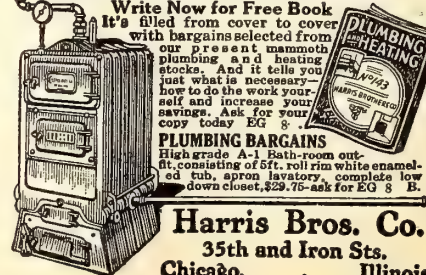
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In this incubator you get the greatest hatching value at the lowest possible price. Will last a life time.



C. P. Shirey, writes: I hatched 220 chicks from 222 fertile eggs. I have not done this with any other machine and I have tried a number.

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Don't buy an incubator anywhere at any price until you get our new 1916 catalog and rock bottom prices. You owe it to yourself to know all about this wonderful incubator. Write today—sure.

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From PRIZE WINNERS at the Leading Shows—Heavy WINTER EGG LAYERS—the Green Sheen Kind with REALLY YELLOW LEGS—

Also **SILVER LEGHORNS**

In Type and Color BEAUTIFUL and RARE—Prolific Producers of EGGS ALL THE TIME—From PRIZE WINNERS Too—For MATING LIST Address

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PIGEONS PAY

Better Than Chickens
Young pigeons (squabs) bring 40 to 50c each when 3 to 4 weeks old. Big demand in city markets. Each pair of pigeons easily clear \$4 per year. Always penned up. Very little space and money needed to start. Free Book explains all. MASTIC SQUAB CO., Dept. 56, ADEL, IOWA.



are concerned, but in vain. Naturalists tell us that in wild birds protection whilst eggs are in the nest is the determining factor, so that these may not be easily discerned by marauders. Such is a beautiful provision of Mother Nature to secure perpetuation of her winged creatures. That does not apply to domesticated poultry. Consultation with scientific investigators and naturalists, both individually and in their writings, has thrown no ray of light on the subject. At every point we are thrown back. The following indicate some of the difficulties.

Color of the plumage has nothing to do with the color of shell. The White Orpington and the White Wyandotte lay tinted eggs; the White Leghorn and the White Bresse lay eggs without any tint, and so thru all the range of exterior coloration.

Color of flesh, skin, and legs alike do not correlate with color of egg-shell. The Dorking is all white in these respects and lays white eggs; the Orpington is the same and lays tinted eggs; the Plymouth Rock and Indian Game have deep yellow flesh, skin, and legs, and lay brown eggs; Leghorns have the same and lay white-shelled eggs; black Orpingtons and Minorcas have gray flesh and dark legs, but one lays tinted and the other white-shelled eggs.

All fowls originated in Asia. Possibly all laid brown-shelled eggs. Whether that is so cannot be stated. I have often longed for the opportunity of spending a couple of years in India and China, especially the latter, for the purpose of delving into the mines of knowledge of breeding unknown to Western nations, but the opportunity has never presented itself. Perhaps that may be the fortune of someone else. If so, it would be a great gain. The fact is that within the last hundred years the ancestors of all our breeds which lay brown-shelled eggs have come to us from the Far East, either in the breeds we have today or the use of these in newer combinations. That is true of American races as well as our own.

White-shelled eggs come from those birds which have been bred in Europe for hundreds of years, regardless of whether these are characterized by egg or flesh qualities. What the cause is has yet to be discovered. So far as we know climate and soil are not responsible, unless the process of bleaching the shells is very slow, requiring many generations to effect a great change.

The only potent fact that remains is that as yet no non-sitter producer brown-shelled eggs. Hence the difficulty, as the interest, embodied in the Mendel fowls so far as the object of the originator is concerned. Up to the present it has been confusion worse confounded. Whether new light will be thrown upon the question time alone can prove.

EDWARD BROWN.

COMMENT BY MR. STURGES.

There are many secrets yet to be solved, and the causes of broodiness and its relation to the color of the shell is one of them.

Every fancier knows that the so-called non-sitting breeds often go broody, such as Leghorns, Anconas, Campines and Minorcas.

There are two things which appear to me to account for this, or perhaps three:

(a) The fact that most of the non-sitting breeds, as we know them, are not "pure," but have been crossed with other

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6	Only 17% of the eggs registering in this space can be hatched
7	Only 17% of the eggs registering in this space can be hatched
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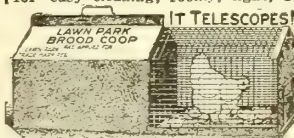
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CHAS. L. STILES

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breeds, tho this may have been in a few generations back, and so there is a "reversion" to the earlier state.

(b) All of us know that this broodiness is more frequent in a hot summer than in a milder one, which points to heat as a direct cause.

(c) I at least have noticed that birds which are well fed and inclined to put on fat are more commonly broody, and also if they have an excess of fattening foods. This may be almost classed with the second cause given above, since it is internal heat.

Mr. Brown must be aware of the fact that not all layers of brown or tinted eggs are broody. I have had Orping-

eggs, hardly to be distinguished from the pure Campine. One at least lays a dark brown egg, and when the ten pullets are all in full lay I shall be able to note the percentage of white, tinted and brown, and to note the broody or non-broody qualities of each. It is also interesting to note that of the ten pullets five have rose combs of various shapes, and five single combs, an indication, by the way, of the want of homogeneity in the character of the Rose Comb.

It is curious nine out of ten cockerels all came with single combs.

Of the marvelous results in color I shall have something to say later on. I wish first to mate the progeny together



"Basket Prince," son of Betsy (record 260 eggs), made from unretouched photo. Undoubtedly one of the best bred-to-lay sires in the country. The very picture of health and vigor. Apple Grove Poultry Farm, Delavan, Wis.

tons, Rocks and Rhode Island Reds that have never come broody during the whole season, and the case is a very common one with the utility White Wyandotte.

It would be interesting if fanciers would record any difference in the shade of the tinted eggs laid by broody and non-broody layers. It has usually been taken for granted that when a layer of brown eggs is crossed with a layer of white eggs the brown is dominant over the white, and that none of the crossed progeny will lay a pure white egg. My own experience during the past season does not bear this out.

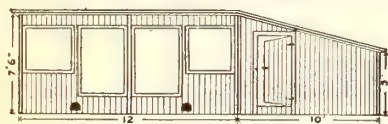
I mated a Silver Campine cock with two Rose Combed Rhode Island Red hens which laid very brown eggs. At least half of the progeny lay pure white

and see what the first generation will produce. I do not think one breeder in fifty can guess the color and markings of the progeny, but it is very beautiful. Nearly all the pullets take after the Rhode Island hens in shape—another proof of an established axiom of the Fancy.

It would certainly be a conquest if a real non-sitting breed could be made to lay a good dark brown egg. I am very doubtful of its accomplishment, but I do believe a breed can be made to lay a light-tinted egg and be non-broody. In fact, the White Wyandotte is very near it now, and in many cases the breed is hardly more of a broody character than the Leghorn or the Minorca.

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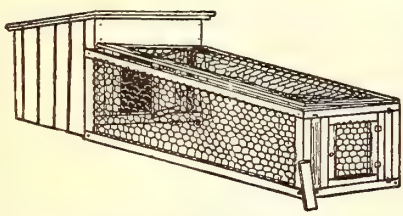


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MEYERSDALE, PA.

ECHOES OF THE SAN FRANCISCO CONVENTION.

New Light on the Proceedings of the American Poultry Association and the Harrison-Penick Case. Statements by Robert G. Bailey of Idaho and J. D. Veach of Montana.

Reported by PRINCE T. WOODS, M. D.

IT IS apparent, from the published and verbal reports that have come to us concerning the fortieth annual convention of the American Poultry Association at San Francisco last November, that a great deal of the association's time and money was wasted in an attempt to pacify one angry little man, intent on compelling the association to do his bidding in his personal interest. It is not the first time, nor the second, that one man has monopolized the time of the association for personal interests and wearied the members with his ranting. The American Poultry Association, if it intends to go in for this thing annually at conventions, might perhaps save time by having these long harangues, which with very few exceptions are much the same, embodied in phonograph records so that the elect and elected could listen to them to their heart's content *outside* of convention hours. We have no doubt that such imperishable records could be obtained gratis. It is barely possible that the American Poultry Association might be put to better use than exploiting and being exploited by Grant M. Curtis. "I thank you!"

Of course when the Official Proceedings are published we will, as usual, get only an edited and expurgated report of the doings at the convention. However, Editor Curtis, who promises still more to come, has already contributed some amazing information concerning the convention and the doings to the Executive Board at San Francisco in the December

and January issues of his publications. By his own words he makes it plain that he attempted to assume a dictatorship over the association and that he meddled to a very considerable extent in work of the Executive Board, where he had no right whatever, and that he blocked and obstructed the work of the convention for entirely personal and selfish purposes.



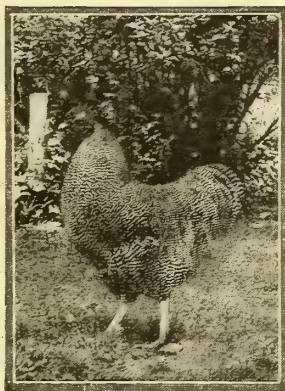
Unretouched photo of S. C. White Leghorn hen of the egg-type as produced by the Ever-fresh Egg Farm, Ionia, Mich.

He does not even make it necessary for his readers to "read between the lines," but makes admissions in cold print that we would expect any decent man to be ashamed of. It is not a pretty or edifying exposition. It is decidedly sordid and disgusting.

Mr. Curtis' story of his sleuthing, his gumshoe methods, his intrigue and confidences with a hotel stenographer, whom

he encouraged—if we are to believe him—to tell about work done for other employers, his insisting upon the Executive Board retrying and again retrying the Harrison-Penick case because the verdict did not suit him personally,—altho both principals in the case had agreed to consider the first finding final and abide by it,—and his erratic and verbose retorial and recriminations to the extent of many pages in his December and January publications, all form a tiresome and unworthy exhibit that make us wonder what can be the state of mind of a man who will so conduct himself.

If any hotel stenographer did as Mr. Curtis, on pages 1250 and 1251 *January Reliable Poultry Journal*, claims "one of the stenographers" did, thus violating and betraying the confidence of Messrs. Harrison and Veach, whom Curtis assumes previously employed her; then certainly she was not a woman whose statements could be believed and she certainly ought to lose her job. No public stenographer worthy of confidence would deliberately volunteer information concerning the work of any employer. Altho Mr. Curtis admits that the Executive Board accepted certain typewritten findings in the Harrison-Penick case and allowed them to be adopted by the convention, which should be sufficient evidence that the findings were satisfactory to the Board and authentic, he is, at great length, endeavoring to show that the "Volunteer Report," as he terms it, was of questionable character and in no way official. The great trouble with this report of Mr. Curtis', that he so much desires to have his readers believe, is that he piles it on too thick. We can well believe, from his own statements, that there was much talk and tears by him about resigning from the association if he could not be permitted to have his own way in all things. It is a pity that some one did not take him at his word and let him resign, or at least give him



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past seven generations. American Bred-to-lay, Line Bred on Woolery Farm by Ralph Woolery.

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the opportunity. It might have put a different complexion on after events and have saved the association both time and money. Not that I believe that Mr. Curtis would resign, for, personally, I do not believe that a new twin-six motor could drag a resignation out of him. He needs the association in his business and he has had pretty much his own way with it for quite a long time. However, the presentation of the case in his publications savors of half-truths, of which Tennyson says:

"That a lie which is half a truth is ever the blackest of lies;
That a lie which is all a lie may be met and fought with outright—
But a lie which is part a truth is a harder matter to fight."

Or, perhaps, one might say in the words of the poet Dryden:

"Some truth there was, but dash'd and brew'd with lies,
To please the fools, and puzzle all the wise."

It is not my intention to reprint here the accumulation of alleged evidence in the Curtis publications. It would be a waste of space and, frankly, I do not believe that Mr. Curtis' statements are, as he claims, "true and impartial." I do not believe that any intelligent reader can waste thru that mass of words, in-



"Boston King," first prize and champion cockerel Boston, 1913; greatgrand sire of "Santerlizer." Bred and owned by W. W. Carpenter, East Providence, R. I.

nuendo, implied meanings, vague guesses, slurs and slams, and carry away even the slightest suggestion of a thought that Mr. Curtis aimed to be "fair", or that he had any other idea in view than to gain his point at any cost.

The details are in his papers for anyone interested to look up and read, and I do not intend to waste more space on them here. Interesting light is thrown on this matter by the statements published in *Western Poultry* by Robert G. Bailey of Idaho, and J. D. Veach of Montana, refuting the Curtis "evidence" and giving him the lie direct. Our readers should have, and will be interested in, these statements of Messrs. Bailey and Veach, which are quoted below:

Statement of Robert G. Bailey.

In the last (December, 1915) issue of the *Reliable Poultry Journal* its editor, Grant M. Curtis, tries to make it appear that J. D. Veach, the delegate to the American Poultry Association from Montana, and the editor of this magazine (R. G. Bailey) who was the delegate from Idaho, stood in with and worked for F. E. Harrison at his trial before the executive board at the A. P. A. convention

recently held in San Francisco. By innuendo he implicates myself and by direct attack charges Mr. Veach with some things that do not look very nice, to say the least. The proceedings of the executive committee were supposed to be secret and yet Mr. Curtis, in his article, shows a direct knowledge of what transpired when he was not present, in places where he thinks the knowledge will help his case, and in other instances shuts up like a clam, as when he says: "Then the report was adopted by the limited number of members present, by what vote R. P. J. does not know."

There are always two sides to a story, but in the garbled report of Mr. Curtis one thing stands out very clear—that Mr. Curtis has made an attempt to give his readers perverted facts, but has printed such extracts from the workings of the convention which he thinks will help him in the big suit soon to come to trial, in which he is accused of libel in handling this self-same case. In the first place, I want to say that I have followed the case as presented in R. P. J. ever since Mr. Curtis started in to flay Mr. Harrison for alleged crooked practices. When I went to the convention I was very much prejudiced against Mr. Harrison, as a result of what I had read, and, as a matter of fact, that prejudice still remains. Inasmuch as Mr. Curtis has reported what is purported to be the doings in the executive committee, but has either knowingly or otherwise stated them somewhat contrary to the facts, I am going to give a statement of such things as I think will interest my readers in the Harrison case, and when I am thru I believe they will agree with me that Mr. Curtis is not as frank with his readers as appears on the surface.

In the first place, the Harrison-Penick case came up first for trial before a committee composed of 21 members of the executive committee, and after listening to the evidence submitted the committee arrived at a verdict and then agreed among themselves not to divulge their findings until the report had been submitted to the convention. On Thursday morning this report was handed in, but before it was read Mr. Curtis asked that it be handed back for a rehearing, and that the committee be instructed to hear new evidence, etc. Naturally the committee resented this and the convention refused to entertain the motion. I, for one, and many others said the same thing to me, resented Mr. Curtis injecting himself into the matter before the verdict was read, for it showed there was a traitor among our number, or else Mr. Curtis had gotten his knowledge of the verdict in a gum-shoeing manner which looked good to none of us. The convention then adopted the report of the executive or the trial committee. Mr. Curtis, in the R. P. J., says the convention rejected his motion thru a "misunderstanding." The records will show it was rejected because the convention refused to make the matter a personal one and pull the chestnuts out of the fire for Mr. Curtis. The verdict as handed in by the trial committee was as follows:

"That the said F. E. Harrison should reimburse R. L. Penick in the sum of two hundred dollars (\$200) as a satisfactory settlement. Both parties to the case appearing in person before the board, agreeing to submit to the decision of the board as final."

Mr. Curtis presented a substitute motion, which, after a great deal of discussion, was carried, referring the case again to the executive committee. I opposed the motion on the ground that the trial had been a fair one, both parties had agreed to abide by the verdict of the executive board, the convention had affirmed the finding of the trial jury, neither of the parties to the trial was asking for a rehearing, and I didn't think any outsider had any right to butt in to get the convention to place itself in a position of reversing itself. But the convention had spoken and back we went to executive session. Before the trial was reopened the executive committee agreed among themselves to abide strictly by the convention's command, to allow the introduction of ALL matter that would in any way bear on the case. But for fear Mr. Curtis would again inject himself in the case as a "lawyer" to plead for Mr. Penick, and with his long-winded arguments prolong the case forever and a day, the committee also agreed to allow no arguments and no outsiders to appear in the case for either side, aside from those having direct testimony to give. After listening to both the plaintiff and the defendant give in such testimony and introduce such witnesses as they desired, the jury arrived at a second verdict in about ten seconds.

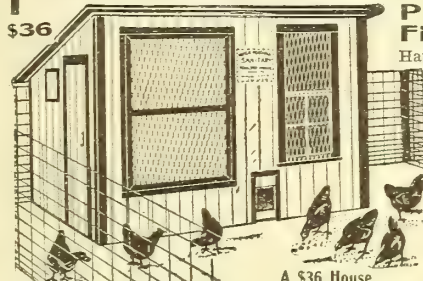
The following morning a second meeting of the executive committee was held, as it had been decided the night before that this would be necessary to approve the verdict after it had been presented in typewritten form. The verdict was read by the chairman and, after a few words were added which were suggested by the president-elect, the report was adopted and ordered returned to the convention. The number of persons who adopted this written report were exactly the same as those who had



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Winners at the great State show (five entries) won 1st and 2d hen, best shape, color, and champion female. 1st and 3d cockerel, best colored male and 2d cock. Stock for sale. Satisfaction guaranteed. Write today.

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Gassmann's White Orpingtons

WINNERS ILLINOIS STATE FAIR, 1915 - GREATER CHICAGO SHOW, 1916

Mating List now ready—it's FREE

HENRY GASSMANN

502 South Fair Street

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Astle's Quality Buff Plymouth Rocks

Won first pullet and second cockerel at Chicago, January, 1916, in strong competition. 2nd cock, 3rd hen at Illinois State Show, January, 1916. 3rd cock, Chicago Coliseum, December, 1915. 1st, 2nd, 3rd pullet, 1st cockerel, 1st hen, 1st pen, Kankakee, Ill., January, 1916. Astle quality has won its share the last six years. Mating list will be ready February 1st.

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Winners at Hagerstown, Frederick, Norfolk, Washington, Chicago and Madison Sq. Garden. If interested, please write me your wants, mentioning breed. Eggs very reasonable.

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Greatest Victory ever won at greatest Chicago Show. In competition with 488 Barred Rocks and best eastern breeders we won most of the best prizes, and nearly all special prizes given by the American Barred Rock Club. 3 Silver cups, best display, 1st pen, mated to produce exhibition pullets; 1st and 2d pens, to produce exhibition cockerels. For Sale, top-notch breeding cockerels and pullets, trios and pens, properly mated to produce winners. Eggs \$5, \$7 and \$10 per 15 from nine grand yards. Circular free.

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ROSE AND SINGLE COMB WHITE MINORCAS, GOLDEN CAMPINES

America's best. Again Champions at Chicago Coliseum. Exhibition and grand breeders for sale.

THOS. BROGDEN, Specialty Breeder

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RUSH LAKE, WISCONSIN

Olle's W. & Partridge Rocks

Winning at the World's Fair, San Francisco, Cal., on Partridge Rocks 1st cockerel, 1st pullet and 3rd pen.

GREAT WIN CHICAGO, JANUARY SHOW, 1916

Won in both varieties more firsts and regular prizes than all our competitors combined. Stock for sale from these great winners. Every bird guaranteed and sold on approval. Pens now mated for the egg trade, headed by our World's Fair and Chicago winners. Get our prices and mating list before buying elsewhere.

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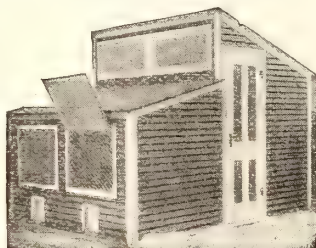
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FOWLS are LIKE HUMANS

If you spend the night in a poor bed you can't do as good work next day. If you have your fowls in a make-shift house, they cannot keep in condition for either laying or showing. House your birds properly and you will find the egg yield increasing and your birds looking much better. Proper housing means the "Perfection Way." Write for our catalog, it is free.

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3,000 breeders on free farm range; milk fed. Specially bred for winter eggs. Eggs for hatching now ready in any quantity at \$6.00 per 100; 80% fertility guaranteed. Now booking orders for baby chicks, March and April delivery, at \$12.00 per 100. Capacity 12,000 weekly—no order too large. The kind that live if given half a chance. My book, "Profits in Poultry Keeping Solved," shows where the money is, free with all \$10.00 orders. Circular free.

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FRIESNER'S S. C. W. LEGHORNS EGGS FOR HATCHING AND BABY CHICKS

from prize winners at the Panama-Pacific Exposition, Ohio State Fair and Zanesville, O. Eggs \$1.00 to \$5.00 for fifteen, \$5.00 up per hundred. Special price on Breeding Pens, \$10.00, \$12.50 and \$15.00. Send for mating list. It is free.

J. W. FRIESNER & SON Box C BREMEN, O.

REGAL REDS BEST SINGLE COMBS EXCLUSIVELY

They again proved their quality at the big State Show, De Kalb, 1916: won 2nd and 4th young pen, 2nd hen, 5th pullet. Also winners at Freeport, Rockford, Quincy and Galena. Have won at the later shows 9 firsts, 4 shape and color specials and silver cup and numerous seconds, thirds, fourths and fifths. Some choice breeding cockerels for sale at half price. Write for particulars. Fine illustrated egg circular sent on request. Satisfaction guaranteed.

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Win at the great Milwaukee show, the most coveted prize—FIRST YOUNG PEN, 2d old pen, 2d hen and other prizes. 17 birds entered, 13 in the ribbons. Won last year—35 firsts out of a possible 55 in Wisconsin's best shows. Stock, Eggs and Baby Chicks for sale. Write for free Mating list.

DURFEE'S LEGHORN FARM - R-2 - MADISON, WIS.

Champion BARRED Rocks

After my sweeping victories at Allentown, Hagerstown, Augusta, Ga., and Hanover, my birds made the following wins, Gettysburg, Pa., in a hot class: 1-2-4 Cock, 1-2-3-4 Hen, 1-2-3 Cockerel, 1-2-3 Pullet, 1-2 Pen, all specials and best bird in American class. At Philadelphia, Pa., the most coveted prize in the class, 1st Cockerel; also 2d Cock and 2d Pen. Book your egg orders now. A small lot of stock yet.

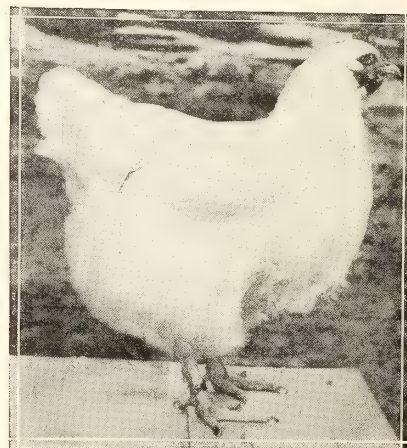
C. GUY MYERS - SIDDONSBURG, PA.

acquiesced the night before in the verbal report, and with probably two or three exceptions were identically the same. This second verdict was as follows:

"After a careful consideration of the evidence we exonerate the defendant in this action from the charge of fraud and dishonorable conduct and recommend that he return to the plaintiff the sum of two hundred dollars."

And right here Mr. Curtis gets in his fine work. He tries to make it appear that the verdict had been hatched in some mysterious manner in the night time, appeared on the chairman's desk the next morning and was adopted while the committee was asleep. As to just where the typewritten report came from, I do not know. I didn't give it a thought, unless to surmise that it had been handed to the chairman by the official stenographer. Mr. Curtis alleges it was dictated by Mr. Veach and by him laid on the chairman's desk. I do not know as to this, but I do know the typewritten verdict was read by the chairman and endorsed by the executive board.

This report was handed in to the convention after it assembled, and, after a great deal of discussion, was adopted. When the report was under discussion Mr. Curtis asked from whence came the report and its origin. In the R. P. J. he complains that none of the committee could or would enlighten him, and then he says: "It was evident there was a mystery of some kind afoot. Later on, the reasons



First prize White Orpington pullet at Racine, Wis., 1915. Owned by Novak Poultry Farm, R. R. 1, Racine, Wis.

for it became generally known." For my own part, and I believe this reflects the sentiment of a great many, I can tell Mr. Curtis what this "mystery" was. By his obstructionist methods of rule or ruin he had already delayed the adjourning of the convention one day beyond its allotted time, and I realized that the only way to choke him off was by a policy of silence. And even if I had possessed the knowledge he asked for I would have still kept my mouth shut. Probably the reason several members were seen to "look at one another," as expressed by Mr. Curtis, was with the thought in mind as to whether any of them would be fool enough to answer Mr. Curtis and so furnish him with ammunition which would start him off on one of his tire-some tirades.

After the convention adjourned for noon it became general talk that Mr. Curtis had torn his delegate badge off and had threatened if he could not have his way in framing the verdict of the executive committee he would resign from the American Poultry Association. Most of the delegates got tired of this kind of talk and threatened coercion, and when the convention convened for afternoon session were conspicuous by their absence. At this session, with only a handful of delegates present, or less than a quorum, E. B. Thompson moved for a reconsideration of the executive verdict and Mr. Veach opposed it, and so did I. Just what actuated Mr. Veach, it is up to him to say, but if Mr. Curtis will print the official report of what Mr. Veach said it will be somewhat illuminating to his readers and shed a great light on the things Mr. Curtis is now covering up. As to the charge of Mr. Curtis that in my remarks against the motion, "R. G. Bailey, Lewiston, Idaho, also favored the interests of Mr. Harrison before the convention and as a member of the executive board," I want to say that this is a deliberate lie. As I have before remarked, from reading the articles in R. P. J. from Mr. Curtis I formed a hearty dislike for Mr. Harrison and his alleged methods and this dislike held all thru the convention and prevails today. When

I opposed the motion it was for the reason that it looked to me like Mr. Curtis was making a fool of the convention; that for the convention to keep on reversing itself would make the A. P. A. appear in the minds of the general public as an erratic body without the brains or the will power to accomplish anything; that the matter had been twice accepted by the convention, and I thought the convention should have backbone enough to stand by its executive committee and not bow to the threats of any one man. And I voted against amending the measure. But Mr. Curtis' handful of friends prevailed and the matter was again for a third time referred to the executive committee.

The final session of the committee which settled the matter was held in the convention hall, the convention adjourning a short time for the purpose. With a very few exceptions the final session of the executive committee was composed of those who had voted for remanding the verdict, and I don't believe half of them had in reality been members of the original trial board. At this session it was decided to return to the convention the first and original verdict, which had been arrived at by the trial board and which had been unacceptable to Mr. Curtis. This was done, and the net results of Mr. Curtis' filibustering was that the convention was delayed two days in its work, a great many ill feelings were engendered, and the basic principle of co-operative work at the convention was shaken to its foundation.

One thing I want to say on behalf of the executive board and that is, that sentiment cut no figure in the rendering of the verdict. All they had to go on was the evidence, and no matter what their private opinion, they rendered a verdict in accordance with the evidence submitted.

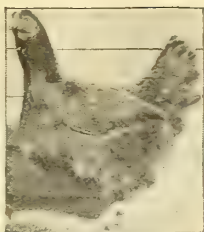
As for Mr. Harrison, I was introduced to him in the lobby of the Inside Inn and exchanged with him perhaps a dozen words in all. I met Mr. Penick after the first trial, when I believed the matter was settled, and had a long talk with him. For fraternal reasons, if for not other, I would have favored him against Mr. Harrison, and yet Mr. Curtis tries to make it appear that I was champion for Mr. Harrison—for or without a consideration he does not make his article appear.

When the final verdict of the executive committee was handed to the convention, Mr. Curtis says: "If Messrs. Harrison, Veach or Bailey voted against the adoption of this final action by the executive board and by the convention, or if either of them did so, we did not hear their voices."

I can assure Mr. Curtis he did not hear me vote against the measure. I had said in open convention a short time before what I thought of the horse play going on and in the executive session I made my position clear. When the executive committee decided on its report, I, unlike Mr. Curtis, knew enough to keep my mouth shut without reiterating and rehashing what I had said before, and so I remained silent. Had I wished to be an obstructionist and quibble over technicalities, it is patent to all who were at the final session I could have done so, for when the final vote was taken there was barely more than half a quorum present.

The whole secret of Mr. Curtis' animus is that he has brow-beaten and controlled the American Poultry Association for so long that he has come to look on it as his own personal property, bag and baggage, and resents and will brook no interference from anyone who does not look, act, and think as he does. I was repeatedly told at the convention that if I opposed Mr. Curtis on anything he would flay me alive. But I went as delegate to represent the great State of Idaho and resented a convention composed of 90 per cent Grant M. Curtis and 10 per cent the balance of the United States and Canada.

I acted, thought, and talked as I thought compatible with the interests I represented,



"LADY RED"

Record 243 Eggs

Single Comb Rhode Island Reds Trap-Nested—Bred for Laying

I have undoubtedly one of the finest and best flocks of Reds in Eastern Pennsylvania, and can supply you with eggs and high class breeding stock from our trap-nested Reds of quality. We guarantee safe delivery of eggs and will replace all infertile eggs if returned to us ten days after received, express paid. Send for price list.

Eggs, \$2, \$3 and \$5 per 15; \$10 and \$15 per 100.

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GENSCH'S SINGLE COMB WHITE ORPINGTONS THE BIG WINTER LAYERS

Won at Chicago Coliseum Show, December 10-15, 1915. 1st old pen, 2d and 7th Cockerel, 3d Cock, 6th Hen, 3d and 7th Pullet. Stock for sale. Eggs in season.

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Faha's Silver Wyandottes

"THE ARISTOCRATS"—Wonderful type, superb lacing, constitutional vigor and persistent laying, are the cardinal points that have made "The Aristocrats" famous. Eventually, if looking for the best you will buy "The Aristocrats." Why not now? Let us know your wants. Catalog free.

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Woodcrest Partridge Wyandottes

LINE-BRED FOR STAMINA AND PERFECTION

A thousand youngsters bearing the blood of *Madison Square Garden Champions* for you. My 1915 season begins with New England Fair: Cocks 1-2; Hens 1-2; Cockerels 1-2; Pullets 1-2. All classes of stock at reasonable prices. Buy early. Mention American Poultry Journal.

CHAS. H. WOOD

MUTUAL BUILDING

WORCESTER, MASSACHUSETTS



White Wyandotte Farms

have furnished first prize winners at some of the best shows in America this season, and wish to extend to you our services and experience as expert breeders of White Wyandottes for the past 23 years. Stock and eggs of the highest quality for sale.

OSCAR L. BOCK, Prop.

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COUNCIL BLUFFS, IOWA



CHIC-CHIC-CHIC.
CRY-CO.
YOUR HENS NEED
Different from all other grit.
No additional Grit needed.
99% PURE CARBONATE OF LIME. Better than Oyster Shells
LEADING A.P.A. MEMBERS
AS WELL AS THOUSANDS OF POULTRY RAISERS.
WRITE FOR BOOKLET
W.A. NEUSITZ & CO. ST. LOUIS, MO.
DEPT. A

BUTTERCUPS

If you are looking for the best, we can supply you.

Prices are very reasonable, quality considered. At Greater Pittsburg Show, 1916, we made but the one entry and won 1st pen. The male bird of this pen was pronounced by several judges to be the finest specimen they had handled this year. Stock and eggs; write for prices.

D. J. WHITE

1222 Patton Street

Wilkinsburg, Pa.

AT MADISON SQ. GARDEN 1915-'16

Our CHAMPION SENSATION and RED PRINCE Strains

of Rose and Single Comb Reds WIN 4 BLUES, (more than any other exhibitor), INCLUDING 1st HEN, SHAPE SPECIAL, 1st PULLET COLOR SPECIAL, 2d PEN and 4th COCKEREL in Rose Combs. Also 2d BEST DISPLAY, 1st HEN, SHAPE SPECIAL, 1st PULLET in Single Combs.

At Boston, 1916

the most coveted win of 1st COCKEREL, also 3d COCKEREL color special, 6th Cockerel, 1st Hen, shape special, 4-5 Hen, 4th Pullet, 2d Pen in R. C. 1st Hen, shape special, (finest hen in America), 4-6 Cocks, 3d Pen in Single Combs.

ELEGANT COCKS AND COCKERELS, OF SAME BLOOD LINES, FOR SALE

MATING AND PRICE LISTS
now READY. SEND STAMP

RED FEATHER FARM

BOX 100
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BARSTOW'S ANCONAS

GEO. N.
BARSTOW
Box A
ONEONTA,
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continue their string of victories by adding the Palace show Blue Ribbons to their list. This being State, National and Club show in this variety, brought out the best birds in this country, winning six regular and four special prizes. At Syracuse, Allentown and Hagerstown my birds won more first and special prizes than any other exhibitor. The judges claim my birds are the best colored and shaped birds they have handled. Fine green sheen with nice yellow legs and correct mottling are a few of their good points.

If in the market for the greatest egg producers in winter at the least cost of production or fine exhibition birds, write me. Good breeding stock reasonable. Booking orders now for eggs and chicks. Don't wait, but write today.

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EXHIBITING OUR WHITE WYANDOTTES

at America's two great shows, Boston and Madison Square Garden, 1916, in the very hottest of competition, we won at Boston 1-4-5 pullet, 4 cock, 6 hen, 4 pen, \$100.00 champion challenge cup, two specials for best female. At Madison Square Garden, 2 cock, 3-4 cockerel, 2-3 pullet, 5 hen, 5 pen, 2nd display. Send for mating list, it contains a complete list of other great winnings, including the Palace Show, N. Y. When you buy from us, you buy the experience of 16 years of careful breeding and consistent winning.

The White Wyandotte Poultry Yards, H. J. W. Fay, Prop. Westborough, Mass.

Single Comb Reds of Quality

Winners at Champaign, Terre Haute, Monticello, Illinois State Fair and Decatur. Birds of grand color and type. Wonderful head-points. Stock for sale. Every bird guaranteed. Eggs in season. FREE booklet. We announce a very high-class mating list for the coming season, for each and every pen will contain birds that have won in the very strongest competition, which include the following shows: Chicago Coliseum, Illinois State Fair, Terre Haute, Champaign, Decatur, Blue Mound and Monticello shows.

JOHN STIARWALT - 833 E. Wood St., Decatur, Ill.

KELLER'S WYANDOTTES, Silver and Golden Laced Whites and Blacks

I have line bred them for 32 years; one of the oldest strains in America, and have won more premiums at Madison Square Garden, Chicago, Cincinnati, Cleveland, Columbus, and the three World's Fairs than any other five breeders. They have won for me several thousands of premiums during the past 30 years. The KELLER Strain is known the world over; they have the oval narrow lacing, size, shape and color that puts the KELLER stamp on every bird. We have hundreds of the finest show birds and high-class stock birds, as well as utility stock at reasonable prices; heavy layers. Some rare bargains this month. Rare, narrow laced Golden Sebrights. Large illustrated circular.

IRA C. KELLER, Brookside Stock Farms, Box 75, Prospect, Ohio.

W. F. Frase, Specialty Breeder Red Sussex

First, last and always — Pure Champion strain.

World's greatest exhibition and laying strain. Eggs from Chicago, Columbus and Port Huron winners. Write for Mating List.

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White Wyandotte Winners

We Have the Real Winners at Kansas City, Mo.,
St. Louis, and Quincy, Ill.

The down-to-date Wyandotte type, and pure white plumage. Grand pens mated for the egg trade. Stock for sale. All infertile eggs replaced free. Every bird guaranteed and shipped on approval. Write Today.

ROY KEMPER :: CLARENCE, MO.

Buff Orpington Winners

Having bred this strain for eight years feel now that I am in a position to offer Stock and Eggs, attested by the following winnings:

American Royal, Kansas City, 1915—1st Cock, 1st Pullet, 2d Pen (three entries). Kansas City, Kan., Mid-West, 1916—1st Cock, 1st, 2d, 3d, 4th, 6th and 7th Pullets, 1st Pen, 3d and 4th Cockerels, Silver Cup best display. Kansas City, Mo., 1916—1st and 4th Cock, 1st, 2d and 4th Cockerels, 1st and 2d Pullets, 3d Pen Silver Cup best display.

Eggs for Hatching. Write Today. Stock for Sale.

J. C. KERN 66th and Virginia Ave. KANSAS CITY, MO.

McConnell's S. and R. C. Reds

Winners at the leading Mid-West shows. Wonderful type and color, long backs and fine head points. Write today. Every bird guaranteed. Stock and Eggs for sale,

W. A. McCONNELL - RICHMOND, ILLINOIS

and Mr. Curtis and his rule or ruin methods rolled off my shield of manhood as does water from a duck's back. I did not like his tactics or his way of taking up nine-tenths of the time of the convention, and I expect to be sacrificed on the altar of his wrath. I will do the gentleman the credit to say I think he is an exceptionally brilliant man and has the history, the laws and usages of the A. P. A. down to a fine point. But he lets his tongue run away with his judgment—in other words, he talks too much—and thereby counteracts the good qualities which would otherwise make him a brilliant leader.

Failing in his attempt to coerce so large a committee as the one which handled the Harrison-Penick case, Mr. Curtis intimates that he will attempt to put thru an amendment to the constitution limiting trial juries to "the president, vice-president, the six elective members of the executive board, and three members of the grievance committee." And if Mr. Curtis really goes after it I give him the credit of believing that he will get it. It really is a shame to have any member of the A. P. A. accused of any violations of the laws to be tried by so representative a body as a jury consisting of the state presidents from each state and provincial association in North America.

Mr. Curtis says that in the January R. P. J. he is going to continue discussion of the case. It would make really interesting reading if he would confine himself to facts and the convention records. But can he and make a good story favorable to himself? Lewistown, Idaho. Robert G. Bailey.

Statement of J. D. Veach.

Let us hope, for his sake, that Mr. Curtis did not intend to deceive his readers, by his report of the proceedings in the Penick vs. Harrison case as considered and passed upon by the A. P. A. convention in San Francisco, and sent broadcast thruout the land in the December issue of the Reliable Poultry Journal. If he did intend to deceive his readers, let us pity him for such a weakness, extend a helping hand and invite him to come out of his pouting corner, dry his boyish tears on his coat sleeve, life his face full to the sky, admit his error and joins hands in good-fellowship for the welfare of the poultry industry and the A. P. A., which is greater and more important than even he.

If he remain obstinate, if he continues to snap at those who would be his friends; if he continues to sit in a dark corner and hurl his infamous insinuations (too cowardly to come out into the light and speak plainly) then indeed must we regard him as a traitor to the cause, and notwithstanding the good that he may have done in the past, deal with him as we find him today.

"Cut off your leg that was wounded at Saratoga and bury it with the honors of war—the balance of you hang"—was once said by a real soldier of our country when speaking to a traitorous officer in the service of the enemy. Honor the traits of character that stand out to the credit of any man, but "hang" the spirit which leads men to do as Grant M. Curtis did in the 40th annual convention of the A. P. A. and followed up in his R. P. J.

Analylsis of a Part of Curtis' Garbled Report.

Page 1157—December R. P. J.—"the next morning when the board again convened, the chairman, Vice-President Peters, found on his table a typewritten report."

The fact is, this particular meeting was called for the express purpose of considering this form of report of the board in findings of the previous evening and thus to bear stamp of approval of the entire board when presented to the convention for action.

On the evening before the final adoption of this report by the executive board, and after the second hearing of the Penick vs. Harrison case, a party of three, consisting of President Thompson, President-elect E. E. Richards and J. D. Veach, sat in the public office of the Inside Inn, discussing the case, when Mr. Veach suggested that it seemed proper to report the finding of the board in a formal manner that would make clear the intention of the members, and requested Mr. Richards to dictate the wording of a suitable report, whereupon he did so, and Mr. Veach copied as per his dictation. The penciled report was read aloud and sanctioned by President Thompson. Then Mr. Veach called Mr. Peters, a few feet distant, and showed him the report, whereupon he (Mr. Peters) suggested that, in order that all members of the executive

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BEST FOR EGGS AND SHOW. Lay at 4 mo.
261 eggs 1 yr. 443, 2 yrs. Our customers
very successful. Valuable DETAILS FREE.
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First prize White Orpington cockerel at Philadelphia, December, 1915.
Owned by Wm. Cook & Sons, Scotch Plains, N. J.



SPECKLED SUSSEX CKL. WINNER
FIRST PRIZE AND COLOR SPECIAL
CHICAGO COLISEUM SHOW DEC. 1915
RAWNSLEY SHIELDS POULTRY FARM, COLUMBUS, O.

board be made acquainted with the wording of the report, a short session should be called in the morning to consider and pass upon it prior to presenting it to the convention. Thus it was that the morning session was called and the report adopted—with the added words—again proposed by the same Mr. E. E. Richards—in the presence of Mr. E. B. Thompson—Mr. A. A. Peters presiding, Mr. Jas. G. Dickson, et al, and (for Mr. Curtis' information) without a dissenting voice. Any deep, dark, designing mystery about the source of that report now, Mr. Curtis?

R. P. J., page 1157, December—"Mr. Harrison knew the origin of this report and so did J. D. Veach, but neither of them saw fit to take the convention into his confidence."

Is that deliberate, wilful misrepresentation? Would Mr. Curtis have his readers believe that J. D. Veach sat in that convention hall when he (Curtis) asked that question? Mr. Curtis must have known that Mr. Veach was not there at this time, nor indeed present when the report was read to the convention and adopted as read, as at that time Mr. Veach was in the committee room serving as requested (a duty Mr. Curtis was later known to shirk). How does Mr. Curtis know that Mr. Harrison knew the origin of that note? That part of Mr. Curtis' report was just a mistake—he would not tell his readers a common lie. But the fact is, Mr. Harrison did not know

and could not have known who dictated or wrote that report, nor could he have known that E. E. Richards requested J. D. Veach to go to the public typist and get the typewritten copies—a truth, however.

R. P. J., page 1158, December—"If the executive board of the A. P. A., as composed of the average men, was going to be as careless or heedless in such matters as this case seemed to indicate he (Mr. Curtis) would resign from the association rather than submit to the jurisdiction of the board as a trial body—a trial body that could wreck a man's reputation, destroy his business and deprive him of valuable property."

Read a little further and see what Mr. Curtis would do (if given full sway)—make this trial body consist of a very few—chosen few. Is that big board of "average men" too hard for Mr. Curtis to attempt to influence? Would he rather have that trial board still further reduced until it should become appointive by the one "great" editor of R. P. J.? Perhaps if the executive board, consisting as it did of the president, president-elect, vice-president, secretary, and a goodly number of branch presidents of the A. P. A.—all men, "average men" of course—could have had the assistance of just one "great" man—it might have sent in a report to suit Grant M. Curtis—and then the committee would have been

pronounced careful and heedful (of Mr. G. M. Curtis' interests) and no fault would have been recorded. Bear in mind that the litigants (as the board understood the case) were satisfied with the findings from the start—shook hands and called things square. But it did not suit Mr. Curtis and unless Mr. Curtis is suited he will resign—he said so.

Mr. Curtis' reference to Mr. Veach's, Mr. Bailey's and Mr. Harrison's speaking and voting are so plainly the earmarks of malignant depravity as to become unworthy of further comment.

Mr. Curtis seems to have been singularly deaf to the stinging denunciations of him and his action by other representatives at that convention. Maybe some of them (one in particular) was too close home and too prominent a breeder.

Mr. Veach and a goodly number of others will endeavor to see that the A. P. A. remains representative (governed by the big bunch of "average men") rather than submit further to the tyrannical rule of Grant M. Curtis or any other editor, who essays to ensconce himself behind closed doors and proceed to scatter broadcast garbled reports, attacks upon fellow member's characters, before proper trial, and dirty insinuations as embodied in the December issue of R. P. J.

Hubbart, Mont.

J. D. Veach.

Wyckoff's S. C. White Leghorns

Acknowledged Everywhere the World's Greatest
Laying Strain. Unequalled in Standard Qualities


Remember that we are the ORIGINATORS and for 35 years specialty breeders of the justly celebrated WYCKOFF Strain of S. C. White Leghorns, the most profitable strain of poultry in America today. Place your orders at headquarters and make no mistake. EGGS FOR HATCHING in any quantity from the grandest of matings. Send for catalog and testimonials from satisfied customers from all over the world.

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Read "A Revolution in Egg Production" announcement on page 449.

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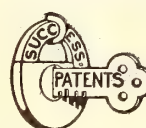


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ALFRED F. GRAHAM Moultrie, Ga.



WHAT CONSTITUTES ONE EGG.

(Here is a "vital matter" presented by Newton Newkirk in the *Boston Post* (Mass.) which, perhaps, might be brought to the attention of that newly made investigating committee of the American Poultry Association.—Ed.)

"Dear Newt.—One morning last week I dropped into a restaurant for the purpose of annexing, as I might say, as substantial a meal as possible on the insignificant sum of 20 cents.

"I ordered a cup of coffee, a slice of toast and ONE boiled egg. (Don't fail to get the egg, Newt., because the whole plot of this story hinges right around this egg.)

"Well, the waiter at last arrived with the eats and placed them before me. I fell upon the food, catch-as-catch-can (stranglehold barred).

"And when I opened the egg, what do you s'pose I found in it, Newt? Two yolks! Yassir, there were the two little yaller yolks cuddled up to each other as cunning as could be. Just then I glanced up and saw the proprietor of the place approaching my table. Here was an acute situation. As the prop. came on I tried to conceal one of the yolks under the edge of my coatsleeve, but in vain. The prop. stood beside the table for a full moment glaring intently at the twin egg. I was very much embarrassed and uncomfortable. Finally I said:

"By the way, good morning, sir—nice weather we're having, isn't it?"

"Yes, it isn't!" he hissed, giving me a black look. Then he went into the kitchen. Before I could gobble up the twin-egg he hurried back and confronted me again. What is worse there was the incriminating evidence lying sunny-side up on my plate.

"Young man," he said sternly, 'how many eggs did you order?'

"Just one mere egg," I replied weakly trying in vain to put a little pep into my voice.

"In that case," he went on accusingly, 'how does it happen I see what appear to be two eggs on your plate?'

"Why, as to that, sir," I replied, 'the one egg I ordered happened to have two yolks in it.'

"In that case," he resumed, 'you will have to pay for two eggs.'

"I refuse to do so," I retorted.

"Then I will have to take one of those yolks away from you," he hissed.

"The proprietor and I talked very bitterly to each other for a few minutes. Finally we reached a settlement by my paying for an egg and a half. Then I left the food factory in disgust and I shall never go there again.

"Newt, will you kindly let me know whether I got a square deal on this egg episode. In other words what constitutes one egg?"

"Manchester, N. H."

According to the most eminent eggologists we have, "Archie," the proprietor of the restaurant aforementioned, was entirely within his rights in demanding that you either pay for the extra yolk or return it to him.

The meaning of one egg as advertised on restaurant menus merely means one individual hen-fruit, consisting of a single yolk surrounded by a single white of the egg, no more, no less. With eggs retailing at 60 and 70 cents per dozen, you can readily understand that if hungry customers should receive any considerable quantity of double-yolked eggs, restaurant proprietors would have to go out of business. With eggs at that price, restaurants have to watch the corners just as closely as their customers have to watch their umbrellas.

Take a plate of beans, for instance. A plate of beans should contain 39 beans. Hereafter count your beans, and if you find over 39 beans you will know at once that the bean counter in the kitchen has made a mistake. In such case, if you are an honest man, you will return the excess of beans over and above 39 to the establishment.

Same way with oyster soup. Suppose you happen to find an oyster in your soup? You wouldn't eat it or try to conceal it to keep the proprietor from taking it away from you, would you? No gentleman who had remaining in his bosom a one last spark of manhood would do that.

Suppose when you are being served with butter in a restaurant, two of those little individual butter patties about the size of a penny should stick together. In that case it would be your plain duty to pry them apart and return one of them with your compliments to the proprietor. Same way if the meat carver makes a mistake and serves you an extra large rump steak. Return part of it to the house and do not try to hide it under your teaspoon.

In other words, "Archie," you must live and let live.

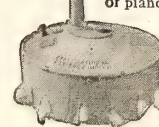
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We have a splendid lot of very high class, **GREAT BIG Pekin Ducks**. \$3.00 each, males or females, or \$5.00 a pair.

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45 Varieties Land and Water Fowls

Send for free illustrated catalogue, which tells you much you should know. Stock and eggs at all times. Mention A. P. J.

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EASIEST run, Fastest Cutter, Strong, Substantial build. Bone scrap means more eggs, higher percentage fertility. Own a "Crown" Cutter and have fresh bone for every feed. Dry Bone, Grain and Shell Mills, Hand and Power sizes. Free illus. catalogue. Est. 36 years.

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Bawden's Buff Plymouth Rocks

Sunlight Strain

The blood of this strain is used in nearly all the best prize winning flocks in Canada and the United States. Send \$5.00, \$10.00, \$15.00, for Cockerel on approval.

1916 Mating List Free.

J. BAWDEN, Box 20, Ridgetown, Ont., Can.

CHAMPION

Rhode Island Reds

Win 1st hen and 4th cockerel at Greater Chicago Show, January, 1916, only three birds entered. Stock and eggs for sale. Eggs from 1st pen, \$5.00 per setting. This pen includes 1st hen at Chicago.

FRANK JOHNSON, 220 W. 110th St., Chicago

Buff Orp'n Sale

Chicago winners must be sold at once. 2nd cock, 2nd and 6th cockerels and State Show winners. Get one of these birds and get started right. Wire or write.

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BUCKEYES

World's Fair and Club Show
CHAMPIONS

Hatching Eggs from the best of the breed.
Mating List Free. **Elton C. Mahon**
BUCKEYE SPECIALIST NORWOOD, TENN., U. S. A.

**Spray
White
Wash**

Kant-Klog Sprayer
for disinfecting and white washing poultry houses—spraying vines, vegetables, etc. Write for catalog. Agents wanted.
Rochester Spray Pump Co.
210 Broadway Rochester, N.Y.

What Are You Feeding Your Hens this Month

For Eggs

If your hens do not lay 20 eggs each, this month, there is something wrong.

Don't blame the hens. It's probably not their fault. They will lay more than 20 eggs each per month if you give them the right food—one that is rich in protein and carbohydrates, along with proper care and housing.

Let our feed experts mix your feed. They have spent years in scientific study and experiment and have produced a feed that **forces hens to lay**, because it contains the food elements which put the hen's physical and egg producing organism in such condition **she's got to lay**.

This wonderful feed is

SCHUMACHER

SCRATCH GRAINS

It is a mixture of a variety of clean, sound, sweet, selected grains, so proportioned that they supply to best advantage the correct amount of protein and carbohydrates for the production of **big egg yields**.

It is a ready mixed, balanced feed—ready to feed. You simply scatter it in litter that is about a foot deep, morning and night, to furnish proper exercise, in addition, keeping Schumacher's Mash Feed in the hopper all the time. Soon you will be gathering **two eggs** where there was only one before.

Schumacher Scratch Grains never disappoint. Always high grade, dependable. Put out by the World's largest makers of feeds—backed by a reputation and a name which stands for the best money can buy. Get it at your dealer's and get the most eggs from your hens. If he can't supply you, write to us.



THE
QUAKER
OATS CO.

ADDRESS
CHICAGO,
U. S. A.

That "Utility Craze".

Editor American Poultry Journal:

Charles D. Cleveland is "utility crazy" again. In *Everybody's* for December he says: "We must have pure blood, and the more of this pure blood from heavy laying fowls we can get into our flocks the better they will lay. The man who sells fowls produced by crossing one established strain upon another, is deceiving himself and the public."

The "offspring of these fowls, (not having any pure basic blood), does not produce as well as the parents, or anything like it, and the end of the whole matter is that the purchaser of this kind of 'utility' poultry is 'stung'."

"Instead of reproducing itself, it goes to pieces with incredible rapidity."

Now I think this is true, and if it is true, as he alleges, of the individual produced by crossing two strains, then why is it not also true of the breed produced by crossing two breeds?

If not true, will some able expert, judge, editor, or breeder, tell us by what law of nature, the conditions that apply



Spangled Wyandottes are a new variety and were exhibited by L. E. Cook, Oakville, Iowa, at the great Coliseum Show. The picture above of the 1st prize cock shows the fine type and excellent color of this new variety.—L. A. S.

to an individual are annulled when applied to a group of individuals?

If it is admitted that they are equally true of breeds, then why should any breed produced by crossing be given any rating at all as a utility fowl?

They are fancy, strictly fancy, and valuable because they are fancy, and a lot of us who would like to own them, cannot afford to because they are designed for a fancy purpose, to catch the eye of the man who can afford to pay fancy prices for something out of the ordinary, and is willing to do it, if fancy breeders will only keep their disqualified culls out of the hands of Tom, Dick, and Harry, who sell their culls to every ignorant poultry keeper who comes along. Stay with the fancy, there's money in it for those who understand the game, and who will sell only their high class birds and dress the rest for market.

Many a so-called "utility man" is selling fowls today for 50 cents each, to people who should, and would, be your customers at \$25 to \$50 per bird—if the birds you offer were not to be dupli-

What Are You Going to Feed Your BABY CHICKS?

For Growth

If your baby chicks do not get the right start **you know** they won't make profitable layers or broilers.

You know that baby chicks must have food that agrees perfectly with their highly sensitive, digestive organs or they will not only fail to thrive, but **fail to live**.

It takes scientific knowledge of a little chick's digestive tract, also long experience in feed making to produce a **successful** baby chick food. Here again the trained feed experts of the Quaker Oats Co. have clearly shown their wonderful skill in making a feed for little chicks.

SCHUMACHER

CHICK FEED

(Contains Oatmeal)

This feed is pronounced by the World's leading poultrymen as the most ideal food for little chicks ever put out.

Its strong feature is in the fact that it **forces their growth** without disarranging either the digestion or bowels.

It contains a variety of grains, selected and balanced with infinite care, which supply the proper nourishment for growth and development in a form best suited to their requirements.

SCHUMACHER CHICK FEED has attained a remarkable sale and popularity among expert poultry raisers because they have found it unusually efficient in helping them to rear a much larger number of their baby chicks. And you know it is the chicks you rear and grow into the largest layers and broilers that pay the profit.

Be sure the Chick Feed you buy contains oatmeal. Schumacher Chick Feed does. If your dealer can't supply you, write to us.

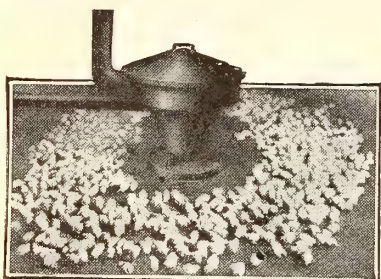
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You cannot afford to spend your good money for brooding or incubating equipment until you have read our literature explaining the chick, labor and cost saving advantages of the new, truly automatic



Duplex Brooder Stoves and Incubators

They have wonderful new features. Our improved burner is a wonderful fuel saver and is as safe as a stove can be. Our perfect automatic heat control, the perfect system of warm air automatic ventilation in both brooder stove and incubators are worth investigating. The Improved Duplex can be operated with less labor, is perfectly reliable, and costs less to operate than any brooder stove on the market. Don't take chances with slow burning fuel and its attendant danger of gas and fumes. The Duplex can be installed at a less cost and will give you better satisfaction.

Sold under Thirty-Day Free Trial Guarantee

Free Booklet. Don't install any equipment before you read this booklet. It explains colony brooding in detail; why it is so successful; why the Duplex eliminates white diarrhoea; has valuable information about Duplex Incubators. Write us a letter, telling your plans, and we will give you a personal letter inclosing building plans and other information you may want. It's free. Write today.

DUPLEX COLONY BROODER CO.

Box 701 - Rockford, Ill.

Middlemarch Champion Strain of

ORPINGTONS

BUFF and BLACK

Win at The National Buff Orpington Club Show, Chicago Coliseum, in strongest class of Orpingtons ever gathered in Chicago, a 2nd, 3rd, 5th and 6th. Also in past two seasons: Great Minnesota State Fair, 1-2-3-4 cockerels; La Crosse, Wis., all 5 firsts, 1 cock, 1 cockerel, 1 hen, 1 pullet, 1 pen, best display, best 10 birds; Birmingham, Ala., 1-2-3-4; Minneapolis (two entered), 1-2.

For customers in Rutland, Vermont; International Live Stock Show, Sioux City, Iowa; Gray Harbors Show, Washington; Sioux City Winter Show; Huron, S. D.; St. Cloud, Minn., and many others. It takes merit to win. Stock at all seasons.

Half price on all Eggs ordered before March 1, 1916. Ten live chicks guaranteed. Eggs delivered when you want them.

Finest matings in Blacks in the West. Finest matings I ever had in Bufts. They are the result of years of careful breeding and selection. Most liberal guarantee on eggs. Place your orders early.

\$10.00, \$5.00, \$2.50 for 15 eggs

Before March 1, \$5.00, \$2.50, \$1.50 for 15 eggs

JESSIE F. GORDON, Box 535, Spring Valley, Minn.

Sec.-Treas. of Minn. Branch of A. P. A.



BUFF and WHITE ORPINGTONS

Winners of the highest honors at Detroit and Grand Rapids.

EGGS for HATCHING

From massive, blocky birds—quality and utility combined. Mating and price list free. Write C.A. Keefer, A.R. 7, Muskegon, Mich.

cated everywhere along the roadside. Just be a little sane in regard to the "fancy-utility craze" and quit selling culls as utility grades, let the public know that such are mongrels from a fancy flock, and have no value save for the meat they carry with them. Quit deceiving the public and quit it quick. You fanciers who are continually claiming utility values for everything that conforms to the Standard, are the greatest deceivers of all, and you are the worst hurt, because you deceive yourselves.

Quit it! For the love of Pat, quit it!

HERB E. SHARP.

Spokane, Wash., Dec. 8, 1915.

WHY I BREED S. C. BLACK MINORCAS.

By J. M. DEAN, Winston-Salem, N. C.

THE principal reason that I breed Single Comb Black Minorcas is that they are the most profitable fowl—and I believe I can prove it!

They lay in Winter, large white eggs,



First Buff Plymouth Rock pullet, Chicago, 1916. A typey pullet of even color and good points thruout. Bred and owned by Milan C. Astle, Momence, Ill.—E. W.

thus furnishing the supply at a lean time and eggs of quality to attract buyers. They are always busy. They do well for the city fancier whose run of ground is limited, standing confinement with the best of birds. For the housewife who is wise, they are unsurpassed as table fowls, their long, deep white breasts furnishing a maximum of desirable meat. The Single Comb Black Minorca is the largest of non-setting varieties. It is hardy, grows rapidly and lays as early as any bird does.

The beauty of the Minorca entitles it to close attention. What fancier who owns this breed, but who is delighted to show it to his friends? The fine carriage, the dark green sheen of plumage, the bright red comb contrasting sharply with it, and the strong white ear lobes—these are a few of the showy qualities of the Single Comb Black Minorca.

Dependable, reliable, regular producers such as these cannot easily be found, in my opinion, and my earnest judgment is that anyone who has once adopted them will never be switched to love another variety, or if he does, he will finally return to his first favorite—the Single Comb Black Minorca.

Start
Chicks
Off
Right



Start with

Blue Ribbon Little Chick Feed

A good start is half the race and you can keep them growing to become strong healthy Birds if you

Follow with

Blue Ribbon Poultry Feeds

The Feeds of Quality for every age and every need

Chick, Developing, Growing, Laying, Scratch.

How to use these feeds for best results is told in our book—sent Free to Poultrymen east of Buffalo.

"What To Do Each Month In the Poultry Yard"

Write today.

GLOBE ELEVATOR CO.
25 Seneca St. Buffalo, N. Y.

SUCCESSFUL EGG FARMING

200 Eggs A Year Per Hen

How to Get Them



The eighth edition of the book "200 Eggs a Year Per Hen," is now ready. Revised, enlarged, and in part re-written; 96 pages. Containing among other things the method of feeding by which Mr. S. D. Fox of Wolfboro, N. H., won the prize of \$100 in gold offered by the manufacturers of a well-known condition powder for best egg record during the winter months. Simple as a, b, c, —and yet we guarantee it to start hens to laying earlier and to induce them to lay more eggs than any other method under the sun. The book also contains a recipe for egg food and tonic used by Mr. Fox, which brought him in one winter day 68 eggs from 72 hens; and for five days in succession from the same flock 64 eggs a day. Mr. E. F. Chamberlain, of Wolfboro, N. H., says: "By following the methods outlined in your book I obtained 1,496 eggs from 91 R. I. Reds in the month of January." From 14 pullets picked at random out of a farmer's flock the author got 2,999 eggs in one year—an average of over 214 eggs apiece. It has been my ambition in writing "200 Eggs a Year Per Hen" to make it the standard book on egg production and profits in poultry. Tells all there is to know, and tells it in a plain, common-sense way.

Price 50 cents; or with a year's subscription to AMERICAN POULTRY ADVOCATE, both for 75 cents; two-years' subscription and book for \$1.00, or given free as a premium for two yearly subscriptions at 50 cents each. Our paper is handsomely illustrated, practical, progressive and up-to-date on poultry matters. Established 1892. 44 to 132 pages monthly. 50 cents a year. 3 months' trial 10 cents. Sample copy free. Catalog of poultry literature free. Address

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351 Hodgkins Bldg. Syracuse, N. Y.

White Wyandottes

Eggs from high class matings that will produce winners, \$2.00 per 15. Satisfaction guaranteed.
FRED A. RUF Crown Point, Ind.

Associations and Shows

Secretaries are Requested to Send in News Items of Interest About Their Shows for This Department

KANSAS CITY, MO., SHOW.

By F. D. ROGERS.

The annual show held at Kansas City, Mo., January 10-15, 1916, while not as large as in former years, had birds of good quality on exhibition and may be regarded as a successful show from every standpoint. Fairly good crowds were in attendance each day, altho the weather was very unfavorable and unquestionably kept many away. It required the services of five judges to place the awards. Their work seemed to be of a satisfactory nature to the many exhibitors concerned.

Barred Rocks, S. C. Black Minorcas, Buff Orpingtons, R. I. Reds, S. C. White Leghorns and White Wyandottes were the largest classes shown.

Chas. H. Rickey, of Clarence, Mo., won most of the prizes in S. C. White Leghorns; his first prize cockerel winning champion of the show. He was an exceptionally fine specimen and well deserved the honor.

J. C. Kern, Kansas City, Mo., made a wonderful winning in S. C. Buff Orpingtons, securing most of the prizes which included best display.

George D. Kenyon, Kansas City, Mo., was also a winner in this class; his first prize young pen being of fine quality thruout.

J. M. Clark, Kansas City, Mo., captured most of the ribbons in R. C. R. I. Reds, some of these winners having won at the World's Fair, San Francisco, Cal., November, 1915

J. C. Rickey, Clarence, Mo., made a nice winning in White Plymouth Rocks.

A. Kurtz, Kansas City, Mo., had on display a fine lot of Dominique Leghorns originated by him that attracted much attention thruout the week.

George E. Studebaker, Kansas City,

Mo., was kept busy demonstrating his newly patented trap-nest to the many interested.

Kansas City is well known as a poultry center. The annual show held here is known as being one of the best sale shows in the middle West.

The full list of awards is as follows:

BARRED ROCKS—Thomas R. Smith, Independence, Mo., 1-2-3 exh. cock; M. P. Cleary, Kansas City, Mo., 4 exh. cock, 5 exh. ckl; O. B. Clinkenbeard, Bethany, Mo., 5 exh. cock, 1 exh. ckl; Almquist Bros., Florence, Neb., 1 exh. hen, 1-4 exh. plt; Roy Finley, Tipton, Mo., 2 exh. hen, 2-3 exh. plt;



First prize Black Langshan cockerel, Milwaukee, 1916. Also first and champion male, Racine, Wis., 1916. One of the many high class Langshans owned by Geo. Cooke, Route 1, Racine, Wis.—F. D. R.

Mrs. P. A. Pettis, Wathena, Kan., 3 exh. hen; T. J. Means, Dearborn, Mo., 2-3-4 exh. ckl; J. E. Madderra, Holt, Mo., 6 exh. ckl, 1 exh. yng pen; Mart Rahn, Clarinda, Ia., 7 exh. ckl, 5 exh. plt; Chas. H. Rickey, Clarence, Mo., sweepstake exh. ckl; Chas. M. Swan, Leavenworth, Kan., sweepstake exh. plt; Almquist Bros., 1-2 ckl-bred hen, 3-4 ckl-bred plt, 1 ckl-bred pen; Thomas R. Smith, 2 ckl-bred hen, 2 ckl-bred old pen; M. P. Cleary, 4 ckl-bred hen; Bryce Seary, Kansas City, Mo., 5 ckl-bred hen; T. J. Means, 1-2-5 ckl-bred plt, 1 ckl-bred old pen; Ed. Bloyd, Leavenworth, Kan., 1 plt-bred cock, 1 plt-bred yng pen; Mart Rahn, 3 plt-bred cock; Bryce Seary, 4 plt-bred cock; Roy Finley, 3 plt-bred ckl; Mrs. Etta Peel, De Kalb, Mo., 5 plt-bred ckl.

WHITE PLYMOUTH ROCKS—J. C. Rickey, Clarence, Mo., 1 cock, 1-2 hen, 1 plt, 2 ckl; A. E. Gloss, Harrisonville, Mo., 2 cock, 3 hen, 1 ckl, 4 plt, 1 old pen, 2 yng pen; Vernon Myers, Stanley, Kan., 3-5 cock, 3 ckl, 5 plt, 1 yng pen; Robt. J. Potts, Edmond, Okla., 4 cock; Fred G. Puffer, Kansas City, Mo., 4 hen; A. Geeraert, Elk City, Okla., 5 hen, 2 plt; Miss J. Chiles, Independence, Mo., 5 ckl; J. H. Miller, Paola, Kan., 3 plt.

PARTRIDGE ROCKS—Dr. J. L. Statler, Granger, Mo., 1-2 hen, 1-2 ckl, 1 plt, 1 old pen.

S. C. R. I. REDS—H. J. Hemmerling, Waterloo, Ia., 1-5 cock, 1-2 hen, 3 ckl, 5 plt, 1 yng pen, 1 old pen; Cedar Grove Farm, Lansing, Kans., 2 cock; Mrs. J. Potter, Kansas City, Mo., 3 cock, 5 hen; Mrs. H. C. Kemp, Dresden, Mo., 4 cock, 3 hen, 6-7 ckl, 2 yng pen; The Evermay Poultry Farm, Gallatin, Mo., 6-7 cock, 4-6-7 hen, 1 ckl, 7 plt, 2-3 old pen, 3-4 yng pen; S. H. Rickey, 2-5 ckl; Elmer Painter, Dresden, Mo., 4 ckl; C. H. Lane, Kansas City, Mo., 1-2-3-6 plt; A. L. Drisback, Oelwein, Ia., 4 plt.

R. C. R. I. REDS—Scranton Red Farms, Scranton, Ia., 1 cock, 4 ckl, 3 yng pen, 1 old pen; J. M. Clark, Kansas City, Mo., 2-3 cock, 1-4-5 hen, 1-2-3-5 ckl, 2 plt, 1-4 yng pen; Cedar Grove Farm, Lansing, Kan., 4 cock, 1 plt, sweepstake plt; Blanche Dougherty, Shenandoah, Ia., 5 cock, 2 hen, 3-4 plt, 2 yng pen; Emmett Pickett, Princeton, Mo., 3 hen, 5 yng pen; J. A. Alleshouse, Trenton, Mo., 6 cock.

RHODE ISLAND WHITES—Mrs. J. M. Post, Colony, Kan., 1 cock, 1-2 hen, 1-2 ckl, 1-2 plt.

PARTRIDGE WYANDOTTES—E. W. Hink, Gordonville, Mo., 1 cock, 1 hen; Carl A. Krietler, Kansas City, Mo., 2-4 cock, 4 hen, 2-4 ckl, 1-3 plt, 1 yng pen, 2 old pen; Lester Howell, Monett, Mo., 3 cock, 2 hen, 3 ckl, 2 plt, 1 old pen; George Lipe, Monett, Mo., 5 cock, 3 hen, 1 ckl; H. R. Smiley, Independence, Mo., 5 hen; James T. Shortridge, Oak Mills, Kan., 4 plt.

SINGLE COMB WH. LEGHORNS

AT THE PANAMA-PACIFIC INTERNATIONAL EXPOSITION 1915

WE WON EVERY FIRST PRIZE—All Specials

26 BIRDS ENTERED — 23 WON PRIZES

JUDGE: IRVING F. RICE of NEW YORK

We Bred and Raised Every Bird Exhibited.

Our Birds have been line-bred for 23 years. Are Trapnested and bred for high Egg production. Eggs for hatching in season. Stock shipped East, West, North or South, without effecting health or vigor. Eggs shipped safely any distance. Write for FREE MATING LIST.

Our Specialty: EXHIBITION, BREEDING and Foundation Stock

RANCHO DEL MARTINO

MRS. E. B. MARTIN

DOWNEY, CALIFORNIA



FIRST PRIZE COCKEREL AND CHAMPION WHITE LEGHORN MALE
PANAMA-PACIFIC INTERNATIONAL EXPOSITION NOVEMBER 1915
BRED AND RAISED BY MRS. E. B. MARTIN, DOWNEY, CAL.

First Prize Cockerel and Champion White
Leghorn Male, World's Fair,
San Francisco, 1915.



A bird as near Standard requirements as it is possible to breed them. Winner first White Rock pullet, Palace Show, N. Y. Owned by Bella Vista Farm, Lewes P. Doerhoefer, Anchorage, Ky.—P. K. W.



A Barred Plymouth Rock female of especially fine type and color. One of the many Chicago winners. Owned by Truckenbrod Bros., Mendota, Ill.

WHITE WYANDOTTES—Dr. C. P. Lisgerat, Red Oaks, Ia., 1-2-3 cock, 2-4 hen, 5 plt; Ed. L. Reed, Breckenridge, Mo., 4 cock, 2-3-4 ckl, 2-4 plt, 2 yng pen; D. D. Sullivan, Effingham, Kan., 5 cock, 5 hen, 3 plt, 1 yng pen; F. C. Kidd, Kansas City, Mo., 1 hen; Brookford Poultry Yards, Kansas City, Mo., 3 hen, 5 ckl; Miss Roma Fleet, Slater, Mo., 1 ckl; W. R. Clifton, Cabool, Mo., 1 plt; W. E. Cockrun, Kansas City, Mo., 1 old pen.

BUFF WYANDOTTES—J. A. Bush, Leavenworth, Kan., 1 cock, 2 plt; Joseph H. Saylor, Marysville, Mo., 2 cock, 1 hen, 1 ckl, 1-3 plt.

SILVER WYANDOTTES—J. A. Bush, 1 cock, 2 plt; J. W. Deardorff, Kansas City, Mo., 1 hen; N. D. Elder, Osawatomie, Kan., 2 hen, 1-3 plt.

BARRED MONARCHS—Jeff W. German, Kansas City, Mo., 1 cock, 1-2-3-4-5 hen, 1-2-3 ckl, 1-2-3-4 plt.

MISSOURI WHITE FLUFFS—Mrs. J. D.

Rice, Hickory, Mo., 1 cock, 1-2-3-4 hen, 1 yng pen, 1 old pen.

R. C. SEBRIGHT BANTAMS—W. E. Rebman, Kansas City, Mo., 1 ckl, 1-2 plt.

BLACK COCHIN BANTAMS—James A. McQuiston, Greenwood, Ind., 1-2 cock, 1 hen, 2 plt; Dr. Whelan, Garfield Ave., Kansas City, Mo., 2-3 hen, 1 ckl, 1 plt.

BUFF COCHIN BANTAMS—J. A. McQuiston, 1-3 cock, 2-3 hen, 1-2 ckl, 1-2 plt; Thomas R. Smith, 2 cock, 1 hen, 3 ckl, 3 plt, 1 old pen.

SPECKLED SUSSEX—Sparling Sisters, Garden Grove, Ia., 1 ckl, 1-2 plt.

S. C. WHITE ORPINGTONS—Ed. McMurry, Kansas City, Mo., 1 cock, 2-3 hen, 1-2-3 ckl, 1-2-3-5 plt; H. W. Sherwood, Clarence, Mo., 2 cock, 1-5 hen, 5 ckl; Mrs. Grace Lundy, Webb City, Mo., 3 cock, 4 hen, 4 plt, 1 old pen, Wm. E. Rebman, 4 ckl.

S. C. BUFF ORPINGTONS—J. C. Kern, Kansas City, Mo., 1-4 cock, 1-2-4 ckl, 1-2 plt, 3 yng pen; W. A. Meldinger, Wathena,

Kan., 2-3 cock, 1 hen, 2 yng pen, 1 old pen; Dr. F. D. Rice, Lucerne, Mo., 2 hen, 3 ckl; Geo. D. Kenyon & Son, Kansas City, Mo., 1 yng pen; Mrs. J. N. McDaniel, Arbela, Mo., 2 old pen.

S. C. BLACK ORPINGTONS—Colder's Poultry Yards, Fairbury, Neb., 1 cock, 2 hen, 3 ckl, 2-3 plt; H. P. Buycha, St. Joe, Mo., 2 cock, 2 ckl, R. F. Lavelock, Harrisonville, Mo., 3 cock, 1 hen, 1 ckl, 1 plt.

SILVER SPANGLED HAMBURG—Carl J. Weick, Salina, Kan., 1 cock, 1 hen, 1-2-3-4 plt; R. D. Arnold, Kansas City, Mo., 1 ckl.

HOUDANS—E. D. Hartzell, Rossville, Kan., 1 hen, 1 ckl, 1 plt, 1 pen.

LIGHT BRAHMAS—Mrs. J. L. Walkup, Wheeling, Mo., 1 cock, 1 ckl.

BLACK LANGSHANS—Frank Boyd, Broken Bow, Neb., 1 cock, 2 hen, 2 ckl; Carl Lindgren, Kansas City, Mo., 2 cock, 1 hen; E. G. Zimmer, Kansas City, Mo.,

HOMESTEAD SILVER CAMPINES THE VIGOROUS STRAIN

At the big Boston Show, January, 1916. At the largest winter show of the season—Cock, 1-2-3-5-6; hen, 1-2-3-4; cockerel, 1-3-4; pullet, 1-3-5-6; 1st and 2d exhibition pen; 1st display; special for best cock, hen, cockerel, pullet and pen.

Palace Show, New York, 1915. At the second largest show of the season, Frank L. Platt, Judge—1-4 cocks, 1-2 hens, 1-5 cockerels, 2-4 pullets, 2nd exhibition pen, 1st display, special for color and type, 1st hen, special for color, 1st cockerel.

New York State Fair, 1915. The first big show this season—2nd cock, 1st hen, 3-5 cockerels, 2-3 pullets, 1st old exhibition pen, 2nd young exhibition pen.

Won at Boston, 1915. 13 regular prizes—4 firsts, special for best display, best cock, hen, cockerel and pen.

The comment on the quality and condition of our birds at the above shows was universally—wonderful!

We have many more good birds at our Homestead Campine Farm, and if you are interested we shall be pleased to send you one of our new catalogs. Our aim always is to give full value and satisfaction. We would suggest to our prospective purchasers they book their orders as soon as possible that they may not be disappointed, for from present indications the demand for both hatching eggs and stock will be greater than the supply.

We have mated about twenty pens for 1916, all headed by prize winners and we are giving our patrons the full benefit of every pen and every prize winner and not a single egg is shipped from our farm that we would not use for our own purpose.

HOMESTEAD CAMPINE FARM

Box A

WAYLAND, MASS.



SMITH'S S. C. BUFF LEGHORNS—I HAVE NO OTHER BREEDS

The largest and best breeder of Buffs in the world. Fair at San Francisco in 1915. My birds are show great layers and show birds for the past 17 years. 1916: 15 pens mated with one male and one female. \$11.00 per 50, \$20.00 per 100 and up.

F. S. SMITH

Winners at fifteen of the largest shows, including Hagerstown, Chicago, and the World's color and type and are bred to lay the year around. I have taken great care in producing Can furnish breeding stock, baby chicks and eggs by the thousands. Thirty-one pens for Eggs \$2.00, \$5.00 and \$30.00 per 15, and \$10.00 per 100 and up. Baby chicks \$6.00 for 25,

Box C. and D.

HAMILTON, O.

1-3 ckl, 1-2 plt; O. Roller, Circleville, Kan., 4-5 ckl.

WHITE LANGSHANS—C. J. Miller, Norwalk, O., 1 cock, 1 hen, 2 ckl, 1 plt, 1 yng pen; W. E. Shackelford, Napton, Mo., 1 ckl, 2 plt.

S. C. BLACK MINORCAS—C. A. Spikerman, Colorado Springs, Col., 1 cock, 1-2 hen, 1-2 ckl, 3-4 plt; Ralph B. Mason, Kansas City, Mo., 3-4 ckl, 1-2 plt; Dan Oberhellmann, Holstein, Mo., 3-6 hen; J. Johnson, Kansas City, Mo., 4 hen; Hamor Thomas, Bonner Springs, Kan., 5 ckl; G. C. Gresham, Parkville, Mo., 7 hen, 5 plt.

R. C. BLACK MINORCAS—C. A. Hosner, Kansas City, Mo., 1-2-3 cock, 1-2-3 hen, 1-2 ckl, 1 plt.

R. C. BARRED MINORCAS—A. Kurtz, Kansas City, Mo., 1 ckl, 1 plt.

S. C. WHITE LEGHORNS—Chas. H. Rickey, Clarence, Mo., 1-2-3 cock, 1-3-5 hen, 1-2-4-6 ckl, 1-2 plt, 1 yng pen; George M. McMillian, Springfield, Mo., 4-5 cock, 4 hen, 7 ckl, 4 plt; H. E. Leech, Greenwood, Mo., 2 hen, 4 plt; L. H. Derker, Kansas City, Mo., 3 ckl; W. P. Strole, Rosedale, Kan., 5 ckl, 5 plt; W. F. Wallace, Des Moines, Ia., 1 old pen.

R. C. WHITE LEGHORNS—Mr. and Mrs. G. A. Rigler, Bentonport, Ia., 1-2-3 hen, 1-2-3 ckl, 1-2-3 plt.

S. C. BROWN LEGHORNS—C. A. Hosner, Kansas City, Mo., 1 exh cock; H. C. Short, Leavenworth, Kan., 2 exh cock, 1-3 exh hen, 1 exh ckl, 2-4 exh plt; Mrs. V. C. Cook, Plattsburg, Mo., 3 exh ckl, 5 exh plt; Noel Maxwell Hall, Harrisonville, Mo., 2-4 exh hen, 2 exh ckl, 1-3 exh plt, 1 exh yng pen, 1 ckl-bred hen, 1-2 ckl-bred plt, 1 plt-bred cock, 1-2-3-4 plt-bred ckl, 1 plt-bred yng pen.

R. C. BROWN LEGHORNS—Albert R. Rice, Waverly, Ia., 1 ckl-bred hen, 1 plt-bred ckl, 3-4 ckl-bred plt; A. B. Garley, Richmond, Kan., 2-3 plt-bred ckl, 1-2-5 ckl-bred plt.

BLACK LEGHORNS—James Seddon, Mistic, Ia., 1-2-3 plt.

DOMINIQUE S. C. LEGHORNS—A. Kurtz, Kansas City, Mo., 1-2 ckl, 1 pen.

S. C. BUFF LEGHORNS—Fred H. Monroe, Denver, Col., 1 hen, 1 ckl, 1 plt; Dr. W. E. Steward, Stratton, Neb., 2 hen, 2 ckl, 2 plt, 1 yng pen.

S. C. ANCONAS—Emmet Pickett, Princeton, Mo., 1 hen, 1 yng pen; Chas. J. Pries, Kansas City, Mo., 1 ckl, 4 plt; Dr. Ferdinand Scheriman, Concordia, Mo., 2 ckl, 1-2-3 plt; Nessley & Switzer, Kansas City, Mo., 5 plt.

BLUE ANDALUSIANS—Mrs. Grace Lundy, Webb City, Mo., 1-4 cock, 1 hen, 1-2 plt; F. R. Allen & Son, Independence, Mo., 2-3 cock, 1-2-3 ckl, 1 pen.

BUFF COCHIN—H. C. Weinrich, Cambridge, Ill., 1 ckl, 1 plt.

DARK CORNISH—W. W. Graves, Jefferson City, Mo., 1 cock, 2 hen, 4 ckl, 5 plt, 1 yng pen, 1 old pen; Frank E. Shelly, Independence, Mo., 2 cock, 2 plt; P. K. Corder, Greenwood, Mo., 3 cock, 4-5 hen, 2 ckl, 1 plt, 2 old pen; Henry Cowgill, Lamor, Mo., 4-5 cock, 3 ckl; T. Ellis Harvey, Kansas City, Mo., 1-3 hen, 1 ckl; Mrs. Grace Lundy, 5 ckl, 3-4 plt.

WHITE CORNISH—Ed. Ross, Kansas City, Kan., 1 cock, 1 pen.

TOULOUSE GEESE—Miss Mary O'Mara, Colony, Kan., 1 cock, 1 hen; Wm. L. Lahner, Lenexa, Kan., 1 cock White Embden goose, 1 cock Brown China goose, 1 cock Wild Canadian goose, 1 cock Dark Cham-pion goose, 1 hen Mexican Snow goose.

PEKIN DUCKS—Mrs. C. E. Coleman, Clarinda, Ia., 1-2-3 hen, 1-2 plt, 1-2 yng pen; Emmet Pickett, 1 old pen.

PENCILED RUNNER DUCKS—Gertrude Mills, Sabetha, Kan., 1 cock, 1 plt.

BRONZE TURKEYS—Mrs. W. L. Searce, Plattsburg, Mo., 1-2 yearling tom, 1 hen; S. K. Rhodes, Norborne, Mo., 5-6 yearling tom, 2 yng tom; Mrs. Fred Ives, Knobnos-ter, Mo., 3 yearling tom, 3-4 yng tom, 2 hen; Mrs. J. A. Barton, Odessa, Mo., 1 yng tom, 1 plt; Mrs. P. W. Larkin, Stillwell, Kan., 4 yearling tom, 3-4 hen.

WHITE HOLLAND TURKEYS—W. H. Drennon, Kansas City, Mo., 1 ckl.

White Langshans

Eggs from flocks of utility birds at \$1.00 per 15, or \$5.00 per 100; \$2.00 per 15, or \$10.00 per 100. From Pen of Fancy Stock, \$5.00 per 15. Eggs from White Indian Runner Ducks, \$1.00 per 12.

R. H. Moore, R. F. D. 1, Nellie, Ohio

WARD'S CHAMPION DARK CORNISH

(Exhibited as Ward & Chilver)

score the most remarkable victory in Cornish history at the Palace, New York, show, December, 1915; 631 points for best display to nearest competitor's 330. For further information about this great victory and price list, write

John W. Ward Jr., Box 7, Pennington, N. J.

At Madison Square Garden, 1916, Houstonia Poultry Farm

Exhibiting our

RED and LIGHT SUSSEX

with 16 entries — we made the remarkable win of

9 Firsts
2 Seconds
3 Thirds
2 Fourths
and best display.



At Chicago Coliseum 1915
we won

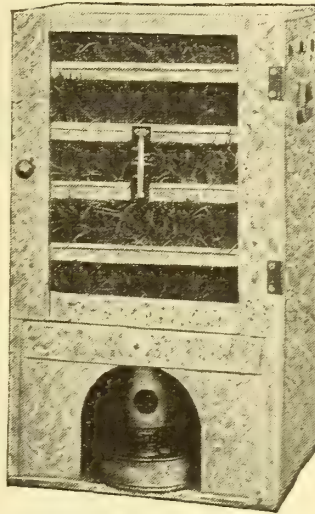
9 Firsts, 7 Sec'ds
1 Fourth and
4 Cups as color and
display specials

Pens now mated containing these wonderful birds.

Write for mating list and prices.

Houston & Hofius Dept. A South Charleston, Ohio

BERRY'S QUICK ACTION GRAIN SPROUTER



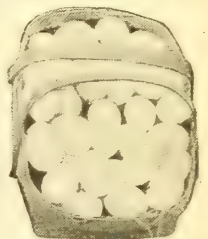
SPRING CONDITIONS IN WINTER AND FEED TEN CENTS
PER BUSHEL MAKE BIG STEADY INCOME

Here is what it will do—Results in a nutshell:

Diminishes cost of feed 50 to 100%
Increases egg production 50 to 100%
Starts pullets to lay early
Fattens poultry 50% cheaper and quicker
Raises baby chicks easier and better
Increases the profits 50 to 100%

"BERRY'S QUICK ACTION" is undoubtedly the leader. Perfected from actual experience and careful tests and comparisons on our practical poultry farm. Made of galvanized rust-proof steel. Indestructible, safe, quick, easy to operate, low in cost. You are Protected by our Absolute Ironclad Guarantee. "BERRY'S QUICK ACTION" will do what we claim or your money back. Sold on the Golden Rule Plan—A SQUARE DEAL TO ALL.

Don't buy a sprouter until you have read all about the "QUICK ACTION." Send today for FREE book on winter eggs and about our wonderful sprouter, incubator, supplies and pure-bred poultry. Address



BERRY'S POULTRY FARM
Box 409 CLARINDA, IOWA

Results of Berry's Quick
Action Sprouter



Close-To-Nature OPEN-AIR Hovers

The Longest Portable Hovers Now Advertised

Five feet long, warmed evenly by heater on inductive principle. Applies the three Close-To-Nature principles:

CONTACT WARMTH, like the hen
OPEN AIR VENTILATION, not hot air
NON-PILING OR OVERCROWDING

Combines the Fireless with the Lamp—use the lamp for very young chicks and discard it as they grow older; or use lamp during day time but extinguish it when chicks cluster for the night. Hinged for easy cleaning out and airing. Roosting bed of earth or litter, perfectly sanitary. Nothing like these hovers now on the market. Brooders on same principles as hovers. Don't get a brooder or hover until you have read the Close-to-Nature circular. Very low prices.

Close-To-Nature Co., 38 Front St., Colfax, Iowa

Deming's Single Comb Rhode Island Reds

Again they win at Madison Square Garden; this makes three years that our birds have shown their "class" at the Garden Show. Don't fail to look up their records at the egg laying contests. If looking for stock or eggs that will produce winners and layers for you, write me.

H. P. DEMING, Winsted, Conn.

The Consistent Prize-Winners of the Whole Country Are



Out of ten hens entered by Twin Pines Farm, Rohrerstown, Pa., in the Missouri National Contest ending November 1st, 1915, eight secured the 200 egg ribbon. A consistent Hall Equipment Record!

HALL EQUIPMENT CHICKS

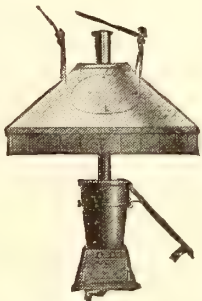


Out of ten hens entered by Twin Pines Farm, Rohrerstown, Pa., in the Missouri Contest ending December 1st, 1914, seven secured the 200 egg ribbon. A consistent Hall Equipment Record!

Birds that make believable records at contest after contest come from poultry farms that rely upon Hall Equipment Chicks—sturdy, healthy, profitable stock—to increase the laying and breeding value of their flocks. Growing, successful poultrymen all over the country use and endorse the

HALL COLONY BROODER

as the one brooder so sensitive to chicks' temperature needs it all but thinks for them. The Hall Company marketed the coal heated colony brooder years before any other was conceived. *The Hall is the original colony brooder.*



Broods up to 500 chicks easier, cheaper, than one-tenth the number can be raised under any small flock system. Has 52-inch round hover; cast iron stove; fire pot carries 14 hours fuel—no magazine needed; coal-ing, shaking, ash removal without raising hover—no chilled chicks, no gas; thermostat absolute in temperature control; no delicate bearings, counterpoise weights, complicated levers.

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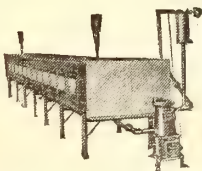
telling what we have learned in nineteen years experience about Modern Brooding Methods, Sanitation, Maximum Flock Size, Fuel Costs, Vital Points of Brooding, Chicks Indoors, Chicks Afield, and hundred of other interesting poultry facts and poultrymen's experiences with Hall equipment. This big free book also tells you all about the



HALL INCUBATOR

(Capacities 1,200 to 20,100 Eggs)

The Original and Standard Mammoth



that is genuinely sectional. Each section measures 29x24x54 inches over all, weighs 75 lbs. If you want to make more money from increased capacity, the Hall will appeal to your experience. If you want to get into the profitable business of commercial hatching, day-old chicks, the Hall will let you start small and grow right—it won't abuse your confidence.

HALL MAMMOTH INCUBATOR CO., 07 Southern Ave., Little Falls, N. Y.

MILWAUKEE SHOW.

Held at the Auditorium January 21-26, 1916—A Real Success From Every Standpoint—Birds of Quality Seen in All the Classes.

By F. D. ROGERS.

THE show held at Milwaukee this year may well be classed with the other shows of national importance and prestige thruout the country. At this exhibition Theodore Hewes, promoter and general manager, again demonstrated his ability in this capacity and much credit should be given him for establishing another national show here in the great mid-west.

First of all, the building in itself is particularly well adapted for an exhibition of this character. The mammoth floor space, and particularly fine light, together with the excellent location, proves it to be ideal from every standpoint. The decorations were very appropriate, causing much favorable comment from the hundreds present during the week.

I have always maintained that well arranged display pens have much to do with the general appearance of any poultry show as well as proving profitable to the exhibitor, and those found at Milwaukee this year certainly played a most important part and added much in making what I can sincerely say, a most attractive and by far the prettiest show room I have ever seen.

In the center of these well arranged display pens was to be found the champion White Plymouth Rock hen, owned by H. W. Halbach & Sons, Waterford, Wis. The wonderful record made by his particular individual was to be found on an attractive sign placed above the pen and was read with much interest by many during the week. Members of this firm were present each day, taking personal charge of their exhibition.

The White Houdans on exhibition by M. L. Starks, of Starks, Wis., attracted much attention. The White Houdan was originated by F. D. Baerman, Dunellen, N. J., and is destined to become very popular in this country. They are in much demand from a fanciers standpoint and are also noted for their great utility qualities, being extra good layers of large white shelled eggs.

Mrs. J. H. Harnly, Zion City, Ill., had on exhibition her 1st prize champion pen of S. C. White Orpingtons at the World's Fair held at San Francisco, November, 1915. These same birds were on display at the Chicago Coliseum show December, 1915. They are unquestionably one of the best pens of this particular variety shown to date. Mrs. Harnly is to be congratulated for her ability to produce birds of this fine quality.

Pabst Stock Farm, Oconomowoc, Wis., breeders of S. C. Rhode Island Reds and S. C. White Leghorns, had two display pens on exhibition; one containing a pen of high-class S. C. R. I. Reds, the other their 1st prize White Leghorn cock bird. This particular specimen was one of the sensations of the show and is without doubt, one of the best White Leghorn males I have ever seen or handled.

After the awards were made, J. H. Durfee, Madison, Wis., had his 1st prize young pen S. C. White Leghorns exhibited in a large display pen. They are birds of exceptional quality thruout and to win this coveted prize places Mr.



Picture of an undeveloped Barred Plymouth Rock pullet owned by Grove Hill Poultry Yards, Box 555, Waltham, Mass. Note the wonderful clean cut barring and grand type, not usually seen in Barred Rocks of this age.



First prize Partridge Plymouth Rock cockerel, Greater Chicago Show, January, 1916. Owned by E. A. Crotser, Fulton, Mich.

Durfee in the front ranks of White Leghorn fanciers.

A. and E. Tarbox, Yorkville, Ill., displayed a pen of their noted Silver Wyandottes, the pen shown here winning 2nd prize at the Madison Square Garden Show, New York, December, 1915-January, 1916, thus maintaining the national reputation enjoyed by these noted breeders.

Several well-known supply houses were well represented by attractive and well arranged booths. Prominent among

them being the Albert Dickinson Co., of Chicago; J. Held & Son; Kneisler Bros., and Theodore Koss, of Milwaukee.

The Licene Co., Chicago, Ill., occupied a large booth space. Mr. John Brinkama, well-known to poultrymen everywhere, being in charge. The remedies manufactured by this company are most reliable and well-known by poultrymen throughout the country.

The classes in most instances were well filled with birds of fine quality. Judges of national reputation placed the

awards in a most satisfactory manner. A. F. Kummer, James A. Tucker, Geo. Wells, Geo. Hackett, W. C. Pierce, Geo. E. Greenwood, O. L. McCord and J. C. Johnston acting in this capacity.

W. W. Henderson, Bridgeton, Mo., made a great record in Barred Plymouth Rocks, winning nearly every 1st and most of the other prizes. His birds showed wonderful type and color and were in excellent condition. His exhibit was in charge of E. Joynson, his well-known manager.

PARKS' Barred Plym. Rocks

BRED-TO-AND-DO-LAY

1889



1916

ARE AMERICAS' OLDEST and GREATEST LAYING STRAIN

In fact they are conceded by such men as Dr. Woods, Grant M. Curtis, Judge Schwab, Prof. Morrison, Wm. Denny and others to be the daddy laying strain of them all.

Their early history dates back to the year 1889, when a flock of 16 at that time averaged but 96 eggs each. While today they have to their credit individual records as high as 290 eggs in one year. Sworn continuous laying records up to 148 eggs. Small flock averages up to 242 eggs. While a flock of 128 averaged 208 eggs in one year and, better still, they just proved their official laying capacity by laying more eggs in the last Missouri Laying Contest than any other breed entered (The Famous English Leghorns included). In addition to making the best winter month record in the contest, Mr. W. H. Grabill, New Castle, Pa., under date February 3, 1916, writes: "I won Egg Laying Contest of New Castle Pet Stock Association on pullets from eggs of you; winning over three pens of Barron White Leghorns." Under date of February 2, 1916, we received the following from Mr. W. W. Brown, Ardsley, N. Y.: "Fourteen pullets from chicks of you just finished their lay year with 3,411 eggs."

That's what over 26 years of careful, selection, trapnesting and pedigreeing for eggs has done, and not all at the sacrifice of Standard qualities, as our 18 firsts and seconds won at Elgin, Ill., Youngstown, O., Utica, N. Y., Wheeling, W. Va., and Altoona, in addition to four American Barred Rock Club Specials show. That's why our customers today include Madison Square Garden winning breeders.

Foundation stock that reproduces. The above in limited numbers only, however, as stock of such quality is not produced and sold the happy-go-lucky way by the thousands. Yes, let the other fellow have your big orders, but remember us on the quality end.

Eggs that hatch, selected, \$5 per 15; \$8 per 30; \$11 per 50; \$20 per 100, Utility, \$2 per 13; \$6 per 45; \$12 per 100.

Day-Old Chicks that develop into layers. Chick and Egg circular free. Large 40-page illustrated catalog that tells all about how America's oldest and greatest laying strain has been produced, a dime.

J. W. PARKS

- Box J -

ALTOONA, PA.

At the Great Panama-Pacific International Exposition Poultry Show
NOVEMBER 18TH TO 25TH, 1915

McCONNELL'S S. C. Black Minorcas

again substantiate the claim of America's Greatest Trap-nested Egg-producing and Exhibition strain by winning in one of the largest and best classes ever exhibited.

COCKS	HENS	C'KL'S	PULLETS	PEN
1-2-4-6-7	3-4-8	1-2-4-5	1-2-3	2

also fifteen birds in the hands of my customers were in the ribbons.

Large, snappy, vigorous Trap-nested Exhibition or Breeding stock for sale that will improve any flock or win any show in America. I sell eggs that will hatch regardless of distance of shipment. Send for Sales and Mating lists of the strain that delivers the goods. **BREEDING FOR EGGS MY HOBBY.**

J. V. McConnell Box 279-A Garden Grove, Calif., U. S. A.

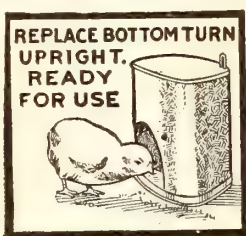
A FEW OF

Moe's Useful and Inexpensive Inventions FOR THE POULTRY RAISER



TO SNAP ON
A MASON JAR

No. 32, 10c



REPLACE BOTTOM TURN
UPRIGHT.
READY
FOR USE

No. 0, 25c

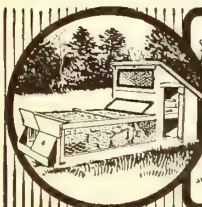


SLIDING COVER
MAKES FILLING
EASY

No. 11, 15c

If not at your dealers write us mentioning dealers name and we will see that your wants are supplied, above prices your city. Write for complete booklet No. 6. Free to any address.

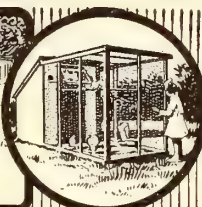
OTIS & MOE MANUFACTURING CO., 1111 Washington Blvd., CHICAGO, U. S. A.



No. 0 Poultry House



Setting Coops



Pigeon House

HODGSON PORTABLE HOUSES

This sanitary poultry house is an egg-record breaker for 12 hens. The setting coops keep the hens by themselves while setting. The pigeon house (with its flight cage) is fitted complete for ten nests. Hodgson poultry and pet stock houses are the most scientifically constructed on the market. Made of painted sections that can be bolted together by anyone. Send for illustrated catalog.

E. F. HODGSON COMPANY Room 332, 116 Washington St., Boston, Mass.
New York Show-rooms: Craftsman Bldg., 6 E. 39th St.

Powers' White Wyandottes

COCKERELS AND PULLETS FOR SALE

Every bird is guaranteed and shipped on approval. Cockerels, \$3 up; Pullets, \$2.50 up. Grand Pens Mated for the egg trade. Eggs for Hatching, \$5, \$3 and \$2 per fifteen. Order Direct or Send for Free Catalog.

J. H. POWERS, Poultry Yds. 79th St. and Bennett Ave. Office, 1411 E. 47th St., CHICAGO, ILL.

Schlosser's Single Comb White Leghorns

BRED FOR COMMERCIAL EGG PRODUCTION

Get our reasonable prices on Fertile Hatching Eggs and Vigorous Baby Chix. Free Catalog.

A. H. Schlosser & Son Box A, R. F. D. 1, Bettendorf, Iowa

MISS DOROTHY WOOD'S BABY CHICKS

WIDELY
POPULAR

S. C. White Leghorns, Barred Rocks, S. C. Brown Leghorns, S. C. Reds, Silver Wyandottes, Buff Leghorns. Vitality—Vigor—Quality. Booklet free. Address

MISS DOROTHY WOOD, :: **Fond du Lac, Wisconsin**

Fair sized classes were seen in White Plymouth Rocks, J. F. Riemer, White-water, Wis., winning best display on birds of very good quality.

A. and E. Tarbox, Yorkville, Ill., made a wonderful win in Silver Wyandottes, also Speckled Sussex. They are one of the oldest and best known breeders of Silvers in the country and from all indications will make the same record with the now very popular Speckled Sussex.

White Wyandottes were one of the largest classes shown. Frank E. Hering, South Bend, Ind., well-known as a breeder of S. C. White Leghorns and Silver Campines, took the boys by surprise at this show by winning in the White Wyandotte classes, five 1sts and many of the other prizes. His birds were beautifully shown and in grand form. It was conceded by many of the judges that the 1st prize White Wyandotte hen owned by Mr. Hering was one of, if not the best individual birds on exhibition.

S. C. Rhode Island Reds were a large class. Dr. C. W. Barrett, Chicago; Geo. Demlow, Libertyville, Ill.; Chanticleer Farm, Oconomowoc, Wis., and Pabst Stock Farm, Oconomowoc, Wis., being prominent among the winners. The 1st prize cockerel shown by Mr. Demlow attracted much attention and was well placed. The 1st prize pullet owned by Chanticleer Farm was wonderful in color and good type. The 1st prize cock and 1st old pen owned by Dr. Barrett were of fine quality and deserve the honors they received. Pabst Stock Farm made a consistent win in most of these classes.

R. C. Reds were a small class, but with good quality thruout, among the winners being J. H. Carpenter, Glen Ellyn, Ill., and Frank S. Hill, of Indianapolis, Ind. The birds shown by these two breeders being of especially good type and color.

George Johnston, of Oconomowoc, Wis., exhibited three birds in the Light Brahma classes, winning two 1sts and one 4th.

George Cooke, Route 1, Racine, Wis., well-known breeder of Black Langshans, made nearly a clean sweep, winning most of the prizes and best display. Mr. Cooke is a real fancier and the birds shown by him were, indeed, outstanding specimens and far ahead of those usually seen.

Without a doubt, Milwaukee will be another mecca for White Leghorn breeders, judging from the large number shown at this, the first exhibition, it being the largest class in the show with extra fine quality thruout. J. H. Durfee, Madison, Wis., won 4 cock, 2 hen, 4 ckl, 1 yng pen and 2 old pen. Mr. Durfee's birds are of the snappy down-to-date type and clearly demonstrates his ability as a most successful breeder of this ever popular variety.

As before stated in this article, the 1st prize cock bird owned by Pabst Stock Farm was a real star, a bird that would at once command the immediate attention of any Leghorn fancier. George E. Greenwood and G. B. Schmidt were also winners in these classes with birds of especially good quality.

Mrs. John Wolf, Box 40, Merrifield, N. Dak., had on exhibition an exceptionally fine string of R. C. White Leghorns, winning nearly all the prizes, every bird shown by her being placed. Mrs. Wolf's birds are larger than the R. C. White Leghorns found in most

shows and are of very fine type and color. Her 1st prize pullet, also the cockerel heading her 1st young pen showed wonderful type and style thruout.

Good quality was to be seen in the S. C. Buff Orpington classes; E. L. Bemis, Fond du Lac, Wis., winning most of the 1sts with birds showing true

hen with birds of good type and color.

Dr. M. A. Hansen, Osage, Ia., was a prominent winner in Buttercups. This particular strain is well-known. The doctor's birds having been prominent among the winners at the Chicago Coliseum for the past several seasons.

A. and E. Tarbox, Yorkville, Ill., made a very satisfactory win in Silver Cam-



Utility and beauty combined. The above picture shows a pen of White Wyandotte females winning 1st prize in the egg laying contest held in connection with the Chicago Coliseum Show, 1914. Owned by J. H. Powers, 79th St. and Bennett Ave., Chicago, Ill.

Orpington type and a very even shade of Buff thruout.

In White Orpingtons, Novak Poultry Farm, R. R. 1, Box 85, Racine, Wis., made a most wonderful showing; their 1st prize cockerel towering above all others in the class.

Fred Rau, Indianapolis, Ind., exhibited S. C. Blue Orpingtons, winning in all the classes with birds of good color and type.

A. and E. Tarbox, Yorkville, Ill., won 1-2 ckl. and 1-3 plt. in Red Sussex.

In Speckled Sussex, F. M. Gensch, Box G, Omro, Wis., won 1 cock and 1

pin, their 1st prize cockerel being a particularly fine bird.

Water fowl and Bantams were not shown in large numbers. However, those that were on display being of a good quality.

The writer was informed by Mr. Hewes that he is very much satisfied from every standpoint with this, his first year's effort in regard to Milwaukee as a location for a national show, and plans are already being made for next year's exhibition, the dates being January 18-23, 1917.

TOM Barron's Winners

All Egg Contests Prove Them

World's Greatest Layers

Are Still at MORRIS FARM
R. 4 - Bridgeport, Conn.

I have the Most Profitable Flock of Poultry in America, and you cannot afford to be without my blood.

Remember, you take my word for nothing. I state only official records made at National Laying Contests.

In Wyandottes—

\$8.69 worth of Eggs by BARON-ESS V, the 282-egg hen, at North American Contest, 1913-14. Four others laid 274, 271, 258 and 252 eggs. The five laid 1337 eggs, an average of 267, or \$8.21 per hen.

I have a flock of 27 Hens that gave net profit per hen of \$4.67. These are the three Contest Pens I bought of Barron, and which he had at Pennsylvania, Connecticut and Missouri. All my Wyandottes are bred from these.

In Leghorns—

I am breeding the Highest Pedigree Cockerels in the World, out of the 288-Hen, winner at Newport, Eng. This affords new Winning blood for the Barron breeder. Others, 284, 256, 255, etc.

In Buff Rocks—

280, 265, 263, 240, etc. I guarantee all contest birds.

All Breeders tested by Storr's College. Free of white diarrhoea.

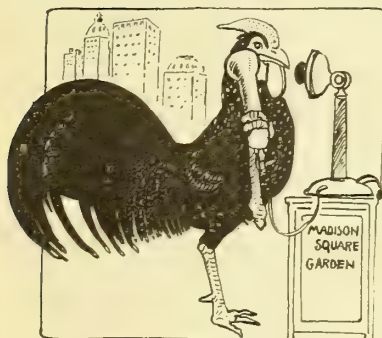
MORRIS FARM R. 4 Bridgeport, Conn.



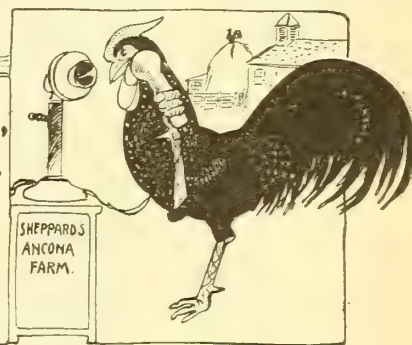
Raise Belgian Hares

and Make Big Profits. Demand bigger than ever. Start small, grow big. Big hare book for six (6) 2c stamps.

Farmers' Rabbitry, 309 Catherine St., Red Bank, N. J.



"Hello!! I want
SHEPPARD'S ANCONA FARM."
"Yes, this is the folks at
home."
"Well then, take down
this message:"



We made a great win. We didn't leave many prizes for the other Anconas to take home, because we were so much better looking, although there were many prize winners from the Panama-Pacific Exposition and other leading shows of the country. Just think! I won first prize for being the very best cockerel in my class. My brothers won second, fourth and fifth prizes. My sisters did fine. They won first, second, fourth and fifth prizes in the pullet class. My mother won first prize for being the best hen, and her sisters won second, fourth and fifth prizes. We were all proud of my father, because he was such a handsome bird. He easily won first prize and his brothers in the first and second prize pen did show up nicely. Every person admired them. Our cousins in the first prize Single Comb pen were the talk of the show. They were so much better than the birds in the long row of pens, that they had no trouble in getting first prize. Their brothers won first and third cockerel and second and third cock. Their sisters won first, third, fourth and fifth pullet; also second, third and fourth in hen class. We won the two gold special prizes for best display on Single Comb and Rose Comb Anconas. We couldn't stop laying during the show. The people would stand around in front of our coops and gathered the eggs as fast as we laid them. It was a great treat for the city folks in New York City to get so many nice large eggs of such excellent flavor. This makes nine consecutive years that we have averaged such a splendid win.

This wonderful win shows the peerless quality of Sheppard's Famous Anconas and again proves that they are the world's best. If you want to win at your show, book your order now for eggs, baby chicks or select stock. Write for 86-page catalog free.

H. Cecil Sheppard Box M2 **Berea, Ohio**

If You Are Interested in Profitable Poultry, Look Up ad on Page 470.

TO THE VICTOR BELONGS THE SPOILS

You are herewith introduced to

Champion Gladstone



Winner of 1st Cock

SINGLE COMB RHODE ISLAND REDS
Madison Square Garden
1916

Also Boston, 1916

Also winners of champion challenge cup at Boston. Some win, you will say, but consider this was the only bird we entered at the "Garden" and the competition was the keenest it has been in years. The same is true of Boston. He is the only cock bird we entered and with 23 entries, he captured 1st.

If you write promptly, we can supply you with a limited number of his progeny for immediate delivery. Now booking egg orders. Satisfaction or money back is the way we do business.

ROCK LEDGE FARM
SOUTHBOROUGH - MASS.

When Better Birds Are Bred - We Will Breed Them

Bean's Harvard Reds Win Again at New York

First Pen, first, second, third and fifth Cock, first Cockerel, second Pullet and third Hen in Rose Combs. Easily the most sensational win on Rhode Island Red males in history of Madison Square Garden. Add second Pen, third Cockerel and second Best Display on Single Combs at the same show—then emulate a certain gentleman of historical fables, at the end of 20 years of slumber. You know Van did wake up. Descriptive circular, price list and illustrated mating list, yours for the asking.

I. W. BEAN

314 Pond St., South Braintree, Mass.



**THE
EDWARDS' BROODER**
\$7.50 for 100 Chick Size

Rat and fire proof. Cost of oil only 5c per week. Chicks raised on a bed of warm sand.

Write for Circular.

A. A. E. BROODER MFG. CO.
New Wilson, Oklahoma

Andrews' Bl'k Orpingtons

Winners at Brooklyn and the Grand Central Palace, New York. I can furnish you with birds that win. Order eggs for hatching early. Prices reasonable. Silas H. Andrews, 208 2d St., Mineola, N. Y.

They Win Again at MADISON SQUARE GARDEN

Quality Speckled Sussex

Honest birds at honest prices. Maples Poultry Yards, Groton, N. Y. Rev. W. Berberich, Owner.

THE CANTON, OHIO, SHOW.

By SHEPARD STRONG.

THE Canton Show has long been known as one of the largest and best held in the state of Ohio. This season's exhibition held December 28th-January 1st proved it again worthy of its reputation. In most instances, the classes were large and competition very keen. The Canton Auditorium in which the show was held is centrally located, being one of the largest exhibition halls in the state.

The judges were J. C. Johnston, G. B. Whittaker and Ira Pavee. Their decisions gave general satisfaction.

Barred Plymouth Rocks formed the largest class of the show; 121 birds single entries and 19 pens. The winners were strictly high-class specimens and I especially liked the first prize pullet.

Buff Plymouth Rocks, a fine class, large number shown and grand quality thruout. The 1st cock, 1st hen, 1st and 2nd cockerel and 1st pullet would win in almost any competition.

White Plymouth Rocks, good size, class and fine quality. The 1st cock, 1st hen and 1st pullet were fine type and color.

White Wyandottes, a large class; winners extra fine.

Buff Wyandottes, Partridge and Silver Campines and Columbian Wyandottes not very well represented in numbers, but good birds among the winners.

S. C. Rhode Island Reds, large numbers and fine quality.

R. C. Rhode Island Reds, were large size and quality worthy of special mention. Quality above the average.

S. C. White Leghorns, second largest class in the show; 61 single entries and 7 pens. Quality of the winners was of the highest order.

Small class of Buff and Black Leghorns.

S. C. Anconas, one of the larger classes of the show, competition being very keen and awards more or less evenly divided.

S. C. Black Minorcas, fair in numbers and quality among the winners very good.

Silver Campines a fine class. The 1st hen, 1st cockerel and 1st and 2nd pullet being good enough to win in almost any show.

Buff Orpingtons, large class and fine quality; winners being choice specimens.

Blue and White Orpingtons fair size. Class of good quality: 1st White Orpington hen being especially fine in type and color.

Speckled and Red Sussex, Dark Cornish, Buttercups, Golden Campines, Andalusians and R. C. Black Minorcas, small classes. Winners of good quality.

Bantams were a surprise both as to the number shown and quality found thruout; being over 100 exhibited, quality being extra fine.

AWARDS AT THE CANTON, O., SHOW.

BARRED PLYMOUTH ROCKS—Fred Anthony & Son, North Lawrence, 1-2 cock, 3 hen, 2 ckl-bred hen, 2 plt-bred cock; S. R. Krupp, Wadsworth, 3 cock, 5 pen, 4-5 ckl-bred hen; Chas. Reed, Burton City, 4 cock, 5 hen, 1-2 ckl, 1-3 ckl-bred hen, 4 ckl-bred pen; W. A. Mason, Ashland, 5 cock, 3 ckl-bred pen; John Betscher, Canal Dover, 1 hen, 4 plt-bred cock; Hicks Burkett, Canton, 2 hen, 3 ckl, 2-3-5 ckl-bred plt, 1 plt-bred pen, 2 ckl-bred pen; C. E. Wilhelm, Wooster, 4 hen, 3-5 plt-bred cock; J. H. Seaton, Canton, 4 ckl, 1-3-5 plt, 2-3-4 pen, 2-5 plt-bred ckl, 5 ckl-bred pen; David Lindsay, Canton, 5 ckl; Mrs. Harvey H. Miller, Canton, 2-4 plt, 2-4 plt-bred pen; H. V. Pay, Canton, 1 pen, 1 ckl-bred pen, 1-3-4 plt-

IT SEEMS TO FALL TO

DUSTON

To Bring Out a

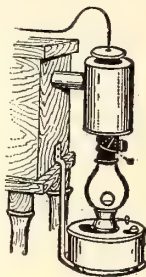
White WYANDOTTE

that really marks an epoch in the Wyandotte world.

"Framingham Chief"

stood out as a wonder for shape and quality. There probably was never shown his equal as a cockerel. That bird marked an epoch. At Madison Square Garden this season another Duston cockerel, "Whirlwind 1st," won. This bird marked another epoch. The judge, an old Wyandotte breeder, attending Garden shows for many years, says: "This cockerel was the best he had ever seen in competition in the Garden." That is going some. I have won 1st cockerel between these males, but such birds are just winners, not models of the classic in Wyandottes. In addition to 1st cockerel, I won 1st pen, 4th and 5th cocks, 2nd and 3rd hens, 1st and 4th pullets, 1st collection (36 points to my nearest competitor's 19). Champion White Wyandotte male, best shaped male, best headed male. Mr. Sewell said after carefully going over the classes, if he wanted a model for a Wyandotte head he would choose 1st cockerel. Best shaped female, best headed female, and seven other specials, winning over Palace and Philadelphia winners. This on top of the winners I have sold proves the claims I have made as to the unsurpassed quality of my stock. I can furnish you breeders and show birds. Eggs from exhibition and practical matings. Send for catalog to the breeder who has made possible the world's best flocks.

ARTHUR G. DUSTON, Box 1020, Framingham, Mass.



SEE

the Heat-Check between chimney and heater? It does the work of two eyes and two hands—busy all the time, and makes an incubator hatch eggs the same as hens do it. Costs \$1.00 each. Attach it yourself to any old incubator or one of latest model. Just as well adapted to heated brooders. Fully guaranteed. Send postal for full description.

UNIVERSAL HEAT-CHECK

Factory 65

Buffalo, New York



SILVER and GOLDEN CAMPINES

The Egg and Money Makers

Eggs for hatching—that will hatch—from the grandest birds that are properly mated for best results. Bulletin of facts free. My book "Campineology," de luxe and two-colored plates, 10c.

J. FRED N. KENNEDY
Box F Birch Cliff, Ont., Can.

The Barred Rock Handbook (Copyrighted), 128 pages, clothbound, illustrated. Treats fully history, mating and judging Barred Rocks. Contains names and addresses of 1,100 breeders. Price 75c, including your name and address in next edition. The National Poultry Institute, Topeka, Kans.

Square Deal Poultry Farm's S. C. Black MINORCAS

Again winners at Chicago in strong competition; 3d ckl., 5 ck., 4 hen and 3d pen; 9 pens for egg trade and baby chix. Write for prices.

MRS. TELLIE E. WATTS WEST CONCORD, MINNESOTA

Buff Orpingtons

Eggs for sale from the first prize young pen at the State show. Extra fine in color and type; also stock for sale. Jos. Pottinger, Route 21, Peru, Ill.

S. C. WHITE LEGHORNS

Prize winners at Indianapolis, Fort Wayne and Berne of 5 firsts, 2 seconds, 5 thirds, 4 fourths, 1 fifth. Eggs for sale. Joseph Mazelin, Berne, Ind.

CHARCOAL for POULTRY

Extra Fine, Fine, Medium and Coarse, \$1.25 per hundred at Ironton, Ohio. Cash with order. Samples on request.

JOHN SILLIMAN, Box 196-C, Ironton, Ohio

ROUP CURE

that is guaranteed in every way. Order a 50-cent package today and save dollars in keeping your flock in perfect health. W. O. McCrum, 1101 W. Main St. Decatur, Ill.

bred ckl, 3-5 plt-bred pen; Frank Johnson, Lisbon, 1 ckl-bred plt, 1 plt-bred cock; Robert Lindsay, Massillon, 4 ckl-bred plt.

BUFF PLYMOUTH ROCKS—Frank C. Cole, Van Wert, 1-2 cock, 4-5 hen, 1-2-3 ckl, 1-3 plt, 1 pen; A. S. Walters, Canton, 3 cock, 2 hen, 4 ckl, 2 plt, 3-4 pen; Karl Michener, Dalton, 4-5 cock, 1-3 hen, 4-5 plt, 2 pen; M. M. Disler, Canton, 5 ckl.



One of the many fine R. C. R. I. Reds bred by W. A. McConnell, Richmond, Ill. Mr. McConnell has won this year at several Midwest shows.—F. D. R.

WHITE PLYMOUTH ROCKS—Dale Bros., North Lawrence, 1-2 cock, 2-3 hen, 3 ckl, 4 plt, 1 pen; J. W. Landis, Wooster, 3 cock, 1 hen, 2 ckl, 2 plt, 2 pen; J. O. Green, Canton, 4 cock, 5 hen; Bert Schroder, Canton, 5 cock, 3 plt, 4 pen; Frank Lehner, Canton, 4 hen, 4 ckl, 5 plt, 3 pen; Chas. G. Brown, Massillon, 1 ckl, 1 plt.

PARTRIDGE PLYMOUTH ROCKS—Wm. Griffiths, Flushing, 1 cock, 1 hen; Geo. Schaffert, Canton, 1 pen.

WHITE WYANDOTTES—Alvin E. Young, Struthers, 1-2 cock, 4 hen, 5 ckl, 4 plt; Wm. Reid, North Lawrence, 3 cock, 3 hen, 2 ckl, 2 plt, 4 pen; C. R. Staley, Canton, 4 cock, 5 pen; John T. Newton, Cuyahoga Falls, 5 cock, 2-5 hen, 3 ckl, 3 plt; W. T. Bennett, Lisbon, 1 hen, 1 ckl, 1 plt, 1-3 pen; O. C. Owensney, Canton, 4 ckl, 5 plt; H. J. King, Orrville, 2 pen.

BUFF WYANDOTTES—B. M. Owens, Shiloh, 1-2 cock, 1 hen, 1 ckl, 1 plt, 1 pen; T. B. Coffey, Conotton, 3 cock, 2 hen, 2 ckl, 2 plt, 2 pen.

PARTRIDGE WYANDOTTES—John T. Newton, 1 cock, 1 hen, 1 ckl, 1 plt, 1 pen.

SILVER LACED WYANDOTTES—W. B. Harris, Flushing, 1 cock, 1-2 hen, 1-2 plt, 1 pen.

COLUMBIAN WYANDOTTES—H. H. Green, Canton, 1 cock, 1 hen, 1 ckl, 1 plt. **S. C. RHODE ISLAND REDS**—Howard V. Kell, Canton, 1-4 cock, 3 hen, 2 ckl, 4 plt; Grable & Homer, Canton, 2-3 cock, 1-2-5 hen, 5 ckl, 2 plt, 1-3 pen; H. J. Blocker, Akron, 5 cock, 4 hen, 2 pen; Geo. Smith, Brewster, 1 ckl; S. P. Lerch, Canton, 3 ckl; James M. Hunt, Leetonia, 4 ckl, 1 plt; H. O. Jorris, Toledo, 3-5 plt.

R. C. RHODE ISLAND REDS—Chas. Zeeck, Cleveland, 1 cock, 3 hen, 2-3 ckl, 4 plt; D. J. Summerix, 2-4 cock 1 hen, 1 plt, 2 pen; Grable & Homer, 3-5 cock, 4-5 hen, 1-4 ckl, 3-4 pen; Tracht Bros., Galion, 2 hen, 5 ckl, 2-3 plt, 1 pen; L. H. Alexander & Bro., Canton, 5 plt.

R. C. RHODE ISLAND WHITES—Mrs. C. M. Vertrees, Cecilia, Ky., 1 cock, 1 hen, 1 ckl, 2 plt, 1 pen; Mrs. Bertha Bottemus, Cleveland, 2 cock, 2-3 hen, 2-3-4 ckl, 4-5 plt, 2-3 pen; F. J. Dolby, Canton, 4 hen, 5 ckl, 4 pen; Mrs. S. G. Tilton, Eagle Station, Ky., 1-3 plt.

S. C. R. I. WHITES—Mrs. Bertha Bottemus, 1 ckl.

S. C. WHITE LEGHORNS—C. G. Moore, Massillon, 1-2 cock, 1-2 hen, 1-3 ckl, 2-5 plt, 1-2 pen; J. O. Smith, Leetonia, 3 cock; W. J. Heppert, North Lawrence, 4 cock, 5 hen, 1 plt, 3 pen; S. J. Twyman, Hamilton, 5 cock, 4 hen, 4 pen; B. F. Ferris, Cuyahoga Falls, 3 hen, 5 ckl, 3 plt; John T. Newton, 2 ckl, 5 pen; E. E. Post, Warren, 4 ckl; F. N. Norris, 4 plt.

S. C. BROWN LEGHORNS—Wm. Stitz, Canal Fulton, 1 ckl.

S. C. BUFF LEGHORNS—Theo. A. Mueller, Canton, 1 cock, 1-2-3-4 hen, 4 ckl, 1-2-4 plt, 2 pen; J. L. Helpman, Ravenna, 1 ckl,

3 plt; Frank C. Cole, 1 pen; Paul Gibbs, Canton, 3 pen.

R. C. BUFF LEGHORNS—Theo. A. Mueller, 1 hen, 1-2 plt; Paul Gibbs, Canton, 1-2 pen.

S. C. BLACK LEGHORNS—Miller & Sumney, Canton, 1 cock; Paul Gibbs, 2-3 cock, 1-2-3-4 hen, 1-3 ckl, 1-2-3 plt, 1-2 pen; Mrs. H. V. Hayman, Canton, 5 hen, 2 ckl, 3 pen.

S. C. BLACK MINORCAS—H. W. Rose, New Berlin, 1-2 cock, 1-2 hen, 3 ckl; R. A. Kintz, Canton, 3-5 hen, 1 ckl, 2 pen; Earl E. Willis, Canton, 4 hen; Seth Evans, Carrollton, 2 ckl; A. T. Vanhorn, Canton, 1-2-3



PAGEL'S Poultry Supplies

SANITARY Non-Freezing Fountains

No lamps No valves
Non-clog Feed Hoppers, etc

If not at your dealer's, write for circulars.

Manufactured exclusively by
F. Pagel, B123, Rockford, Ill.

S. C. White Leghorns

Eggs for hatching from Prize winning stock. Satisfaction guaranteed. Send for mating list.

K. C. Boggs, Olney, Ill.

BIGELOW'S WHITE ROCKS

Win at 1916 Cleveland show. 1 young pen; 1 cock, 2 hen, 1 and 4 cockerel, 4 pullet. Eggs for sale. Get prices before buying.

P. C. BIGELOW, Box A : Medina, Ohio

S. C. White Leghorns

Heavy winners at Akron, Cuyahoga Falls and Canton. Write us for prices on stock and eggs.

P. J. FERRIS - Box A - Cuyahoga Falls, Ohio

WOODS' BUFF ORPINGTONS

have won for 15 years. See list of 1915 winnings this issue. Fine cockerels, pullets and pens yet for sale. Four grand pens mated. Mating list free.

QUALITY FARM, H. M. Woods, Carlville, Ill.

Demand Efficiency—Not Mere Claims When Buying A Coal-burning Colony Brooder

The Newtown Colony Brooder—self-feeding, self-regulating—was the first successful brooder of the coal-burning type. It has demonstrated its wonderful efficiency in all parts of the world—under the widest range of conditions—in all climates—in all types of houses. It leads because it represents absolute perfection in brooding devices. The

Newtown Giant Colony Brooder

has rightly been called "the machine without a fault." Note a few of its points of merit:—

Durable—constructed entirely of cast iron excepting the deflector and casing of firepot—built to last a lifetime.

Economical—burns coal, the cheapest satisfactory fuel—large heating surface insures ample heat under all conditions. The sloping surface of the special heat radiator at right angles to the conical deflector radiates the heat to the outer edge of the deflector just where the chicks hover. This gives a hover area double that of any other brooder of the same rated chick capacity.

Convenient—because it is self-feeding and self-regulating—requires but little attention.

Efficient—having perfect ventilation—an even heat day and night—permits each chick to find exactly the temperature it prefers. The large grate surface insures a big bed of fire that will not burn out in cold weather or smother in warm weather—prevents chilling and over-heating.

Safe—danger from fire eliminated—heavy iron construction and fire bowl encased.

Four S zes—to meet the needs of all growers of chicks. Attachment for soft coal furnished if desired.

It is too late to experiment. But you will be safe when you buy the Newtown—

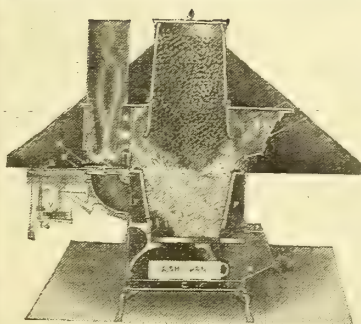
"The Brooder That Made Good"

Get the Newtown from your dealer. Or write us for free catalog which explains how you may have a Newtown installed on our money-back guarantee. We can ship immediately any size desired.

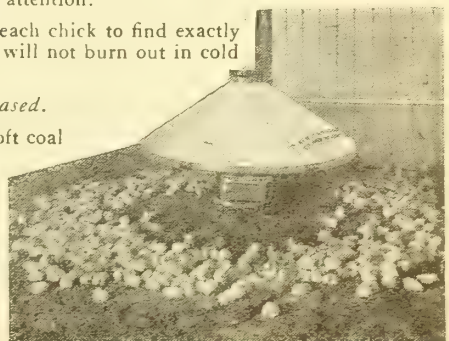
NEWTOWN GIANT INCUBATOR CORP'N

21 Warsaw St.

Harrisonburg, Virginia



Cross section view. Note large coal capacity—durable and scientific construction—simple automatic regulator—encased fire bowl with ventilating ring and large grate surface. The Newtown Heater is double the size of most others.





Be Good to Your Baby Chicks

From these bright little fellows must come your blue ribbon winners and early laying pullets. The one that dies may be a Lady Eglantine or a Wilburtha King. Spray the inside of your incubator with

CARBOLA The Disinfecting White Paint

and destroy, from the start, the germs of roup, canker, white diarrhoea and other fatal diseases that sap their vitality. Carbola is a snow-white mineral paint, with which is combined a disinfectant—the most powerful known to science, yet absolutely safe. Kills lice, mites, nits, etc. Dust your baby chicks with it.

Use It Instead of Whitewash

to paint health and sunshine into every corner of your plant. Comes in powder form and is ready as soon as mixed with water—no straining or bother of any kind. Applied with brush or sprayer. Will not flake, peel or blister. It makes incubators, cellars, barns, coops, nests, stables, runs and brooder houses clean, sweet-smelling and sanitary. Used and endorsed by many of the largest poultry, dairy and breeding plants.

Send to-day for trial package, enough to paint and disinfect 250 sq. ft. —try it instead of whitewash on one of your coops or small hen houses. Money refunded if results are not satisfactory.

Trial Package - 25c (Postpaid. Stamps accepted).
10 lbs. (10 gallon) for \$1.00 plus delivery charges.
20 lbs. (20 " " " \$2.00 delivered free.
50 lbs. (50 " " " \$4.00

Your dealer carries it in stock or can get it for you. If he will not supply you, write us, sending us his name. Do not accept a substitute.

Carbola Chemical Company

Dept. 14-M
7 East 42nd Street
New York



Barred Plymouth Rocks



BUY your exhibition and breeding eggs from a firm that has been in the business for 25 years. No matter what you pay, no one can furnish you superior quality than we can. 34 Premiums at the Ky. State Fair and Louisville Show this past season, prove the quality of "Pope Strains."

Great Armory Show, Louisville, Ky., Nov., 1915
5 First; 6 Seconds; 4 Thirds; 1 Fourth; 2 Fifths
and the Grand Trophy for Best Barred Plymouth Rocks

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MADISON SQUARE GARDEN winners, 1916, 3 Firsts, 1 second with 4 birds. GREAT LAYERS. Fine table fowls. A few grand birds for sale. **G. H. Chase, (Ulster Co.) Highland, N. Y.**

"A Revolution in Egg Production." See page 449.

plt, 1 pen; James S. Mountford, Minerva, 4-5 plt.

R. C. BLACK MINORCAS—J. F. Beswick, Berea, 1 hen, 3 ckl, 1 pen; John Shaw, Canton, 2 ckl, 1 plt; W. M. Paxton, Sebring, 1 ckl.

BLUE ANDALUSIANS—Ray Steely, Canton, 1-2 ckl, 1-2-3 plt.

S. C. ANCONAS—J. S. Smith, 1-5 cock, 5 hen, 1-4 ckl, 2-5 plt, 2 pen; Nunamaker Poultry Yards, Canton, 2 cock; F. L. Berker, Massillon, 3 cock; Marvin M. Smith, 4 cock, 2-3 ckl, 4 plt, 3-4 pen; A. J. Lash, Canton, 1-2 hen, 1 plt, 5 pen; Ed Kurzen, Dalton, 3 hen, 3 plt, 1 pen; Geo. F. Axse, Canton, 4 hen, 5 ckl.

SILVER CAMPINES—John Miller, Canton, 1 cock, 1 hen, 1-2-5 ckl, 1-2 plt, 5 pen; J. E. Maley, Salem, 2 cock, 2 hen, 2 pen; H. W. Cowels, Ravenna, 3 cock, 1 pen; W. S. Stevens & Son, Alliance, 1-5 cock, 5 hen, 3 ckl, 4 pen; McWreath & Whiteshot, Massillon, 3-4 hen; S. W. Miller, Coshocton, 4 ckl; Paul V. Dorn, Canton, 5 plt; Will H. Becker, Martins Ferry, 3-4 plt; Guest & Guest, Canton, 3 pen.

GOLDEN CAMPINES—H. W. Cowels, 1-2 plt.

S. C. BUFF ORPINGTONS—F. V. Boyle, Lima, 1 cock, 5 ckl, 5 plt; J. W. Rude, Cleveland, 2-4 cock, 1-2-4-5 hen, 2-3-4 ckl, 1-4 plt, 1-2 pen; Edwin Stockburger, Alliance, 3 cock; Heisman & King, Curtice, 5 cock, 1 ckl, 4 pen; John Mackay & Son, Wyoming, Cincinnati, 3 hen, 2-3 plt, 3 pen; Ray A. Stoner, Aultman, 5 pen.

S. C. WHITE ORPINGTONS—A. J. Kyte, Tuscarawas, 1 cock, 2 hen, 3 ckl, 1 plt, 3 pen; Edward J. Wagner, Navarre, 2 cock; F. J. Miller, Canton, 3 cock, 1 hen, 1 ckl, 2-3 plt, 1 pen; S. Price, Flushing, 4 cock, 2 ckl, 1 pen; Deetz & Hess, New Berlin, 3-4 hen, 5 plt; B. J. Winsworth, 5 hen, 4 pen; J. C. Garner, Canton, 4 plt.

S. C. BLACK ORPINGTONS—W. S. Stuver, Wadsworth, 1 cock, 2 hen, 2 ckl, 2 plt, 2 pen; G. W. Baumgartner & Son, Wooster, 2 cock, 1-3 hen, 1 ckl, 1 plt, G. W. Baumgartner, Sr., 1 pen.

SPECKLED SUSSEX—W. J. Stuhldreher, Massillon, 1 ckl, 3 plt, M. V. Ritter, Wooster, 1 hen, 2-3 ckl, 1 plt; W. S. Stuver, 4 ckl, 2 plt.

RED SUSSEX—Dr. P. S. Goss, Wadsworth, 1 cock, 1-2 hen; Morgan Neath, Wadsworth, 1 ckl, 1 plt.

DARK CORNISH—Miller & Sumney, Canton, 1-2 cock, 1-2 hen, 1 pen.

SILVER GRAY DORKINGS—B. M. Owens, Shiloh, 1 cock, 1 hen.

BUTTERCUPS—M. M. Disler, 1 hen.

SILVER PENCILED HAMBURGS—Ira M. Farber, Sandville, 1-2-3 hen.

GOLDEN PENCILED HAMBURGS—John Harris, Canton, 1-3-4 hen; D. W. Weirich, 2-5 hen, 1 plt.

SILVER SPANGLED HAMBURGS—D. W. Weirich, 1-3-4-5 hen; Ira M. Farber, 2 hen.

AWARDS AT THE INDIANAPOLIS, IND., SHOW.

EXHIBITION BARRED ROCKS—P. F. McCarty, Fortville, 1 cock, 1-3 ckl, 4 plt, 2 pen, 1-3 ckl-bred pen, 2-3-5 ckl-bred plt, 1 ckl-bred pen; Darwin Herkless, Carthage, 2 cock, 3 plt, 1 pen, 1-2 plt-bred ckl; K. & L. Poultry Farm, Fairmount, 3 cock, 4 hen, Mrs. Tom Yaring, Shelbyville, 4 cock, 2-3 hen, 4-5 ckl, 1-5 plt; W. H. Goddard & Son, Muncie, 5 cock; Hugh C. Whiting, Bedford, 1 hen, 4 ckl-bred hen; M. C. Arnhold, Columbus, 5 hen; H. A. Tutewiler, Broad Ripple, 2 ckl, 5 ckl-bred hen, 4 ckl-bred plt, 2 ckl-bred pen; Charles G. Fuller, Bicknell, 2 plt; Albert Harlan, & Sister, Amo, 3 pen, 4 ckl-bred pen; Mrs. Anna L. Day, Fillmore, 2 ckl-bred hen; Rohm Bros., Morristown, 1 ckl-bred plt; A. S. Williams, Clayton, 3 ckl-bred pen.

BUFF ROCKS—John Sanders, Letts, 1-4 cock, 2 hen, 3 ckl, 5 plt; Casper, Moore & Co., Sheridan, 2-3 cock, 1 hen, 1-2 ckl, 1-2 plt, 1 pen; Orton Patton, Greensburg, 4 ckl, 3-4 plt.

PARTRIDGE ROCKS—C. J. Lloyd & Son, Greensburg, 1-2 cock, 1-2 hen, 1-2 ckl, 1-2 plt, 2 yng pen, 1 old pen; J. A. McQuiston, Greenwood, 3-4 cock, 5 hen, 3 plt; Mark W. Miller, Terre Haute, 4 hen; A. V. Davis, Greenfield, 1 hen, 3 ckl; W. C. Peter, Mulberry, 1 yng pen.

RED PYLE PLYMOUTH ROCKS—Wesley Lanus, Greensburg, 1-2 ckl, 1-2 plt.

WHITE ROCKS—Mrs. Melvin Havens, Shelbyville, 2-3 cock, 2-3 hen, 1-5 ckl, 2-3 plt; John Landis, Edinburg, 1-5 cock, 1-4 hen, 4 ckl, 1-5 plt, 1 yng pen, 1 old pen; C. C. Herron, Hope, 4 cock; Mrs. Ada Norwood, Southport, 5 hen, 4 plt; Ralph E. Porter, Marshall, 2-3 ckl.

SILVER WYANDOTTES—A. E. Rettig, Indianapolis, 1 hen, 2 ckl, 2-3 plt; B. F. Potter, Julietta, 3 ckl, 1 old pen; Earl A. Hamilton, W. Lebanon, 1 ckl, 1 plt; C. F. Toon, Julietta, 1 yng pen.

COLUMBIAN WYANDOTTES—Fred Dreschel, South Bend, 1 cock, 1-2 hen.

WHITE WYANDOTTES—E. M. Redenbaugh, Manilla, 1-2 cock, 1-2 hen, 1 ckl, 4 plt, 1 old pen; Maywood Poultry Farm, Anchorage, Ky., 3 cock, 2 old pen; Ralph E. Porter, 4 cock; Lora Vandiver, Franklin, 3 hen, 3 plt; Rosanna Wood, Indianapolis, 2 ckl, 2-5 plt; Ernest Bovey, Greenfield, 3-4 ckl, 1 plt, 1 yng pen.

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WHITE WYANDOTTES
S.C.R.I. REDS
BUFF ORPINGTONS



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EGGS

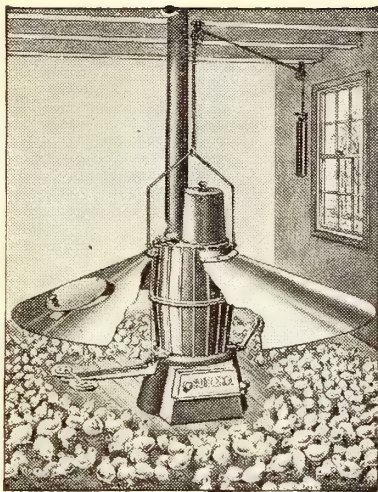
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Send for your copy of the "Buff Orpington Guide Book," (sent free), so-called because it guides the way to satisfaction. Tells all you should know about the wonderful Buff Orpington fowls and gives prices on eggs, chicks and stock, besides much useful information. Send for your copy now.

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Do Certified Egg Records Mean Anything to You? Read ad on page 470.

BUFF WYANDOTTES—W. F. Schultz, Cuyahoga Falls, O., 1-2 cock, 1-2-4 hen, 1 ckl, 1-5 plt, 2 yng pen, 1 old pen; John F. Reeder, Danville, 5 cock, 4 plt, 1 yng pen; C. R. Montgomery, South Bend 3-4 cock, 3-5 hen, 2-3-4-5 ckl, 2-3 plt.

S. C. RHODE ISLAND REDS—Mrs. E. Mahood, Webster Groves, Mo., 1-2 cock, 1-2 hen, 1 ckl, 1-2 plt, 1-5 yng pen, 1 old pen; R. L. Bratton, New Ross, 5 cock, 3-5 hen, 4 ckl, 3 yng pen; C. B. Rauh and C. C. Benson, Indianapolis, 4 cock, 3-5 ckl, 4 yng pen; Wm. F. Grenling, Indianapolis, 3 cock, 2 yng pen; Dr. V. A. Magenheimer, Mooresville, 4 hen; C. C. Herron, 2 ckl; W. E. and Zella Lythe, Troy, O., 3-4 plt.

R. C. RHODE ISLAND REDS—Frank S. Hill, Indianapolis, 1 cock, 1 hen, 1-2-3 ckl, 1-2 plt; A. C. Diller, Bluffton, O., 2 cock, 2 hen.

R. I. WHITES—W. H. Burns, Indianapolis, 1 hen, 1 ckl.

BUCKEYES—Bert L. McDill, Indianapolis, 1-2 cock, 1-2 hen.

LIGHT BRAHMAS—F. P. Johnson, Indianapolis, 1-4-5 cock, 2-3-4 hen, 1-2-4 ckl, 3-4-5 plt, 1-3 yng pen, 1-3 old pen; Arch Byers, Franklin, 2 cock, 1 hen, 3-5 ckl, 2-1 plt; J. B. Lowe, Newcastle, 3 cock, 4 yng pen; B. F. Switzer & Wife, 5 hen, 2 yng pen, 2-4 old pen.

BLACK LANGSHANS—Bernice H. Barrett, Greenfield, 1 cock, 4 hen; M. S. Barker, Thorntown, 2 cock, 1-3 hen, 1-5 ckl, 1 plt, 1 yng pen, 1 old pen; H. A. Reasner, Julietta, 4-5 cock, 4 plt; W. R. Mahan, Lizton, 3 cock, 3 ckl, 2 old pen; H. E. Rogers, Cleveland, 2 hen, 3 plt; Wm. H. Hirshman, Medarryville, 5 hen, 4 ckl, 5 plt; John H. Vandiver, Franklin, 2 ckl; John W. Crise, Letts, 2 plt, 3-4 yng pen, 3 old pen; Thos. K. Hays, Rockville, 2 yng pen.

S. C. BROWN LEGHORNS—Herman F. Rickoff, Indianapolis, 1-2 cock, 1-2 hen, 1-2 ckl, 1-2 plt.

S. C. WHITE LEGHORNS—W. M. Herrod, Flat Rock, 1 cock, 1-2 hen, 1-4 ckl, 1-2 plt, 1 yng pen; C. W. Reynolds, Indianapolis, 3 cock, 5 plt; Maywood Poultry Farm, 2 cock, 1 old pen; Edward Bruck, Indianapolis, 3-4 hen; Joseph Mazelin, Berne, 2 ckl, 3-4 plt; Charles Cunningham, Indianapolis, 3 ckl.

S. C. BUFF LEGHORNS—Evalyn James, Indianapolis, 1-2 hen.

ANCONAS—C. V. Fox, Bicknell, 1 cock, 1 hen, 2 ckl, 1 plt; Daniel Donahue, Indianapolis, 1 ckl, 2-3 plt.

S. C. BLACK MINORCAS—W. Otto Correll, Indianapolis, 1 cock, 3 plt; L. H. McMurray, Indianapolis, 1 hen, 2 plt; J. A. McQuiston, 1-2-3 ckl, 1 plt.

BLUE ANDALUSIANS—S. G. Boyd, Madison, 1 hen, 1 ckl; Wm. P. Habig, 1 yng pen.

BUFF ORPINGTONS—Theo. Hewes, Indianapolis, 5 cock, 1 plt, 3 yng pen; F. A. Poertner, Berea, O., 1-2-4 cock, 1-3-4 hen, 1-4-5 ckl, 1-3 plt, 2 yng pen, 1-3 old pen; Wilkerson & White, Indianapolis, 3 cock; D. A. Kemp, Morristown, 5 hen, 3 ckl, 1 yng pen; G. H. Foster, Bloomington, 2 hen; Everett Wiley, Trafalgar, 2 ckl, 4 yng pen; Geo. W. Miller, Indianapolis, 2 plt; C. A. Richardson, Indianapolis, 4 plt; F. V. Andrews, Terre Haute, 2 old pen.

S. C. BLACK ORPINGTONS—Blue Ribbon Poultry Farm, Columbus, 1-2 cock, 1-2 hen, 1-2 ckl, 2-3 plt; C. J. Moldenhauer, Huntington, 3 hen, 1 plt; S. G. Boyd, Madison, 3 ckl.

WHITE ORPINGTONS—J. L. Stephenson, Jacksonville, O., 1 cock, 1 ckl; L. R. Cope, Dayton, O., 4 hen, 5 plt; Dr. Joe Allen, Greenfield, 1-5 hen; J. Floyd Masters, Indianapolis, 2 hen, 2 old pen; Wm. N. Otto, Indianapolis, 3 hen, 2 ckl, 1 old pen; Fred Schmitz, Indianapolis, 3-4 plt; Wm. A. Stoltz, Indianapolis, 1-2 plt, 1 yng pen.

BLUE ORPINGTONS—Fred Rau, Indianapolis, 1-2 cock, 2-3-4 hen, 2-3-4 ckl, 1-2-4 plt, 1 old pen; B. R. Callis, Madison, 3 cock; Wm. A. Stoltz, 1 hen, 1 ckl, 3 plt, 1 yng pen.

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Indianapolis, 1 hen, 1 plt; John W. Jones, Jr., Carrollton, Ky., 1-2 ckl.

RED SUSSEX—Ferguson & Ferguson, Indianapolis, 1 cock, 1-2 hen, 1 ckl, 3-5 plt; Margaret Leachman, Lizton, 3 ckl, 4 p.t.; G. H. Foster, Bloomington, 2 ckl, 2 plt; Arthur C. Van Duyn, Greenfield, 1 plt.

DARK CORNISH—Carl W. Rouse, Indianapolis, 1 ckl; H. S. Havens, Rushville, 1 yng pen.

BUTTERCUPS—Ralph E. Porter, Marshall, 1 ckl, 3 plt; Fred Dreschel, 2 ckl, 1-2 plt.

SPECKLED SUSSEX—Mrs. C. L. Constable, Goodland, 1 hen, 4 ckl; Clyde Moore, Sheridan, 3 ckl, 3 plt; Fred Rau, 1 ckl, 2 plt, 1 yng pen; G. H. Foster, Bloomington, ckl, 1 plt; Arthur C. Van Duyn, 4-5 plt.

LIGHT SUSSEX—G. H. Foster, 1 ckl, 1 plt.

BLACK JAVAS—Russel Crum, Caledonia, O., 1-2 hen.

S. S. HAMBURGS—Mrs. Eva James, Indianapolis, 1 cock, 1-2 hen.

WHITE HOLLAND TURKEYS—Ray Bottorff, Cortland, 1 old tom, 1 yng tom, 1 hen, 1 plt.

BRONZE TURKEYS—W. R. Mahan, Lizton, 1 old tom, 1-2 yng tom, 1 hen.

ROUEN DUCKS—John N. Orr, Akron, 1 pen.

BLACK MUSCOVY DUCKS—F. G. Hasselman, 1-2 cock, 1-2 hen, 1-2 plt.

WHITE MUSCOVY DUCKS—F. G. Hasselman, 1-2 cock, 1-2 hen.

BLUE MUSCOVY DUCKS—F. G. Hasselman, 1-2 cock.

GRAY CALL DUCKS—F. G. Hasselman, 1 cock, 1 hen.

AWARDS AT THE BOONE, IA., SHOW.

ANCONAS—J. E. Havens, Boone, 1-2 hen, 1 plt.

LIGHT BRAHMAS—Fairholm Poultry Yards, Boone, 1 cock, 1-2-3-4 hen, 1-2 ckl, 1-2-3-4 plt, 1-2 pen.

SILVER SPANGLED HAMBURGS—Chas. Penoyar, 1-2 hen, 1 ckl; Mrs. Louis Montague, Ottumwa, 2 ckl, 1-2-3-4 plt, 1 pen.

BLACK LANGSHANS—Peter Seivers, West Side, 1 cock, 1-2-3 hen, 1-3-4 ckl, 2-3 plt, 1 pen; Tony DeHass, Orange City, 2 cock, 4 hen, 3 ckl, 1-4 plt, 2-3 pen.

R. C. B. LEGHORNS—Axel R. Johnson, Paton, 1 cock, 1 ckl, 1-2-3-4 plt, 1 pen.

S. C. WHITE LEGHORNS—Fred Bell, Boone, 1 cock, 1-2 hen, 1-2 plt, 1 pen; Jas. W. Clark, Boone, 2-3 ckl, 3-4 plt, 2 pen; Mosher, Boone, 1 ckl.

S. C. BUFF LEGHORNS—A. W. Carlisle, Boone, 4 ckl, 1-2-3-4 plt.

S. C. B. MINORCAS—T. L. Jones, 3 cock, 2-4 hen, 1-2 ckl, 1-2 plt, 1 pen; A. S. Farrow, Boone, 1-2 hen; Roy C. Smith, Boone, 3-4 ckl, 3-4 plt.

S. C. BUFF ORPINGTONS—E. T. Kooser, Ames, 1-2 hen, 2-4 ckl, 3 plt, 1 pen; H. M. McCauley, Humboldt, 1 ckl, 1 plt, 2 pen; John Jung, Fort Dodge, 4 plt, 4 pen; I. H. McFarland, Boone, 3 hen; F. E. Heilman, Fort Dodge, 2 plt, 3 pen.

S. C. BLACK ORPINGTONS—W. Chamberlain, Boone, 1 cock, 4 hen, 1 ckl, 1-4 plt, 1 pen; C. J. Hedberg, Boxholm, 2 cock, 1-2-3 hen, 2 ckl, 2-3 plt, 2-3 pen.

S. C. WHITE ORPINGTONS—S. O. White, Fairholm Poultry Yards, Boone, 2-3 cock, 1-4 hen, 2 ckl, 2-3-4 plt, 1-2 pen; J. Z. May, Boone, 1 ckl, 3 hen, 1 plt.

BARRED PLYMOUTH ROCKS—John R. Patterson, Boone, 1 cock, 1-2-3 hen, 3 plt, 2 pen; A. T. Sundell, Ogden, 4 hen; A. Langhout, LeMars, 1-4 ckl; Jas. W. Clark, Boone, 2 ckl; A. E. Anderson, Boone, 3 ckl; John Peterson, Randall, 2-3 plt, 3 pen; Francis Dorrell, Luther, 2 plt, 3 pen.

WHITE PLYMOUTH ROCKS—Gail Sutherland, Madrid, 1 cock, 2 ckl, 3 plt; Chas. Peterson, Madrid, 1 hen, 1 ckl, 1-3-4 plt, 1 pen.

R. C. RHODE ISLAND REDS—E. L. Doggett, Ames, 1 cock, 2 ckl, 4 plt, 2 pen; E. F. Heisel, Jefferson, 1 ckl, 1-3 plt, 1 pen; E. S. Johnson, Boone, 3-4 ckl, 2 plt, 3 pen.

S. C. RHODE ISLAND REDS—G. L. Wheeler, Boone, 1 cock, 3-4 hen, 4 ckl, 3 plt, 3 pen; C. W. Yeomans, Ames, 2 cock, 1 ckl, 1-4 plt, 1 pen; Herbert Fitzgerald, Boone, 3 cock; Chas. Peterson, 4 cock; C. H. Wells, Boone, 2 hen; Clarence Reed, Boone, 2 ckl, 4 pen; L. H. Zeigler, Boone, 3 ckl, 2 plt, 2 pen.

SILVER WYANDOTTES—John A. Johnson, Pilot Mound, 1 cock, 2-3 hen, 1-4 ckl, 1-2-3 plt, 1 pen.

GOLDEN WYANDOTTES—E. O. Lendt, Boone, 4 ckl, 2-3-4 plt.

WHITE WYANDOTTES—Lein Bros., Story City, 1 cock; F. G. Paul, Marshalltown, 2 cock, 2 hen, 2-4 plt, 2 pen; E. J. Redel, Marshalltown, 3 cock, 1 hen, 3 pen; J. R. Glidden, Ames, 3 hen, 1-2-3-4 ckl, 1-3 plt, 1 pen; Chas. Penoyar, Dakota City, 4 hen.

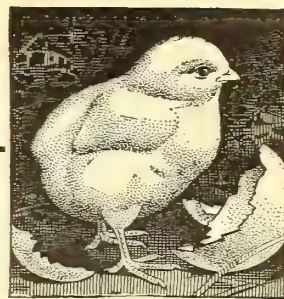
BUFF WYANDOTTES—L. J. Gletty, Humboldt, 1-2 ckl, 1-2-3-4 plt, 1 pen.

PARTRIDGE WYANDOTTES—Mike Barako, Muscatine, 1 cock, 1 hen; R. M. Danley, Prairie City, 1-2-3 ckl, 1-2-3 plt; Alvin Nordberg, Boone, 4 ckl; Rudy Nelson, Boone, 4 plt.

BUTTERCUPS—H. B. Burk, Boone, 1 ckl, 1-3-4 hen.

SILVER CAMPINES—J. E. Havens, Boone, 1-3-4 hen.

RHODE ISLAND WHITES—J. M. Gibson, Boone, 2 cock, 3 plt; Francis Dorrell, Luther, 1 ckl, 1-2-4 plt.



30,000 Chicks for 1916

from four varieties at the following low prices:

	Per 25	Per 50	Per 100
Barred Ply. Rocks...	\$3.00	\$5.50	\$11.00
S. C. W. Leghorns...	2.75	5.00	10.00
S. C. Brown Leghorns...	2.50	5.00	10.00
Broiler Chicks.....	2.00	4.00	8.00

Chicks all hatched in Candee mammoth machines. Write for free catalog and price list, and mention American Poultry Journal.

MISS BARBARA BLUM, Dept. C. New Washington, Ohio

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farm-raised Land and Water Fowls. Eggs in season. Illus. Catalog, and "Grower's Guide," 2c. An honest deal. Write today.

Henry Pfile, Farmer-Poultryman, Box 600, Freeport, Ill.

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Banks' S. C. Reds

Winner A. P. A. Gold Medal
Best Cockerel, Harrisburg, Pa., Dec., 1915

Satisfaction guaranteed.
Send for Mating List.

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from our prize winners at all the leading shows.

White Crested Black Polish
White Silkies
Black Cochins Bantams
Black Rose Comb Bantams
Plain White Polish Bantams

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Send the Cornell Hen

Send for catalog of seven different kinds of poultry. We are now shipping eggs at a popular price. All guaranteed, delivered and insured to your door without extra cost. We are incorporated, paid in capital \$40,000.

Cornell Company, Gt. Barrington, Mass.

Thornycroft Buff Leghorns

Have won at Madison Square, Pittsburg, Buffalo, New York State Fair, and Hagerstown, within a year. They win in any competition. Write your wants.

THORNYCROFT BUFF LEGHORN FARM WASHINGTON, PA.

WHITE PLYMOUTH ROCKS
I have some very fine show birds for sale at reasonable prices. If you want good breeders I furnish them. Hatching eggs, \$3 and \$5 per fifteen.

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ADJUSTABLE CLINCH POULTRY BANDS

None better made. 25-20c, 50-35c, 100-65c, 200-40c, 500-82c.
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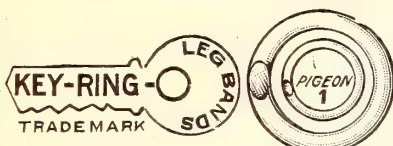
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← Mark Your Day-Old Chicks

Now is the time to mark your chicks—then you can easily recognize them when they become larger.

Make identification easy, quick, and certain by using



Key-Ring-O Leg Bands are used by some of the biggest and best informed poultry raisers in the country. Dr. N. W. Sanborn of Holden, Mass., one of the most eminent men in the poultry world, writes as follows:

"Last summer I had some chicks hatch out of eggs laid by my 246-egg record hen, and failed to toe-mark them, so I slipped on the shank a green Key-Ring-O Leg Band. As I have found pullets this winter with the toe-mark of the hen's chicks, I have put on the green band, so I can quickly make up a breeding pen when the season opens."

Key-Ring-O's are put on like a key ring—but easier; light as a feather; last a life-time; made in ten colors; will not fade. And what's more, they stay on when put on.

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No. 1, Pigeon and No. 3, Baby Chick—12 at 10c; 25 at 20c; 50 at 35c; 100 at 50c. No. 2, Mediterranean; No. 4, American; No. 5, Bantam; No. 6, Asiatic—12 at 15c; 25 at 30c; 50 at 50c; 100 at 75c.

Made in Black, White, Dark Blue, Light Blue, Pink, Red, Green, Yellow, Purple, and Garnet.

State Colors and Sizes Wanted.

NEWELL & GORDINIER
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Price Complete \$11.50 Equal to Five Kerosene Heaters

Capacity 250 Chicks

CORNELL GASOLINE BROODER HEATER

Improved 1916

Cares for 250 Chicks Needs little attention No lamps to Trim No ashes, dirt or soot Absolutely safe Perfect ventilation

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Will burn any kind of Gasoline

POULTRY SHOW AT McHENRY, ILL.

First Annual Exhibition Given by the McHenry Poultry & Grain Association, December 28th, 1915-January 2d, 1916.

By F. D. Rogers.

A real surprise was in store for all who visited this the first exhibition given by the McHenry Association. The exhibition was complete in every detail, having all the appearance of a very well established show. The birds were judged by comparison, the show room being cooped thruout with uniform coops.

Over 800 birds were on exhibition, besides over 100 specimens of pet stock and in the neighborhood of 100 exhibitors of grain.

Nearly 2,000 paid admission during the week. Much enthusiasm was shown among the members, and plans are now being formulated for another show next season. Many birds of especially fine quality were found among the winners.

The first prize White Plymouth Rock cock bird, owned by John Grant, of Richmond, Ill., was a remarkable specimen. This particular bird had the honor of also winning first at the Greater Chicago Show, January, 1916.

W. C. Yurs, Elgin, Ill., and A. A. Stringer, Elgin, Ill., made a good win in the S. C. White Leghorn class.

C. H. Leitner, Elgin, Ill., was a prominent winner in S. C. Buff Leghorns, winning both first cock and first cockerel, besides several other prizes. Mr. Leitner's strain is very well known thruout the country.

Barney Baern, of Waukegan, made a most creditable win in S. C. White Orpingtons, capturing all the firsts and many other prizes.

In both the S. C. and R. C. Rhode Island Reds, good quality was to be found. W. A. McConnell, Richmond, Ill., winning many of the prizes in both classes with birds of extra fine type and color.

It was indeed a successful show from every standpoint, and the success attained in this, their first exhibition, is, indeed, a credit to their secretary, Mr. Ed. Hayes, and all others associated with him.

AWARDS AT BATAVIA ILLINOIS SHOW.

C. A. Pierce, Secretary.

BARRED ROCKS—Fred Wolcott, 1 cock, 3 hen, 4 ckl; J. A. Gustafson, 2 cock, 1-2 hen; Geo. A. Putnam, Ashton, 3 cock, 2-3 plt, 1 pen; Tom Chamberlain, 4 cock, 4 hen; L. T. Miller, 1-2 ckl, 1 plt; R. P. Fischer, Wheaton, 3 ckl, 4 plt; M. J. Abernethy, 2 pen.

WHITE ROCKS—R. A. Sandiford, Joliet, 1 cock, 1 hen; Wm. J. Groner, Montgomery, 2 cock, 4 hen; F. E. Phillips, Oswego, 3 cock, 1-2-3-4 ckl, 2-4 hen, 1-2-3-4 plt, 1 pen; Rudolph Stenman, 2 pen.

BUFF ROCKS—William Schade, Ashton, Ill., 1 cock, 1-2-3 hen, 1 ckl, 1-2-3 plt.

PARTRIDGE ROCKS—William Mundhenke, Elgin, 1 cock, 1-2-3 hen, 1-2 plt.

SILVER WYANDOTTES—Herbert Giese, 1 hen; Harold Frisbie, 2 hen, 1 plt.

WHITE WYANDOTTES—A. G. Benson, 1 cock, 2 pen; M. R. Evans, Hinckley, 2 cock, 2 hen, 1 plt; T. S. Daniels, 3-4 cock; Geo. P. Sanford, Wheaton, 1-2-3 ckl; Carl N. Moore, 4 ckl; Wm. P. Forster, Geneva, 1-2-4 hen, 2-3 plt; Raymond Pollock, 4 plt; R. E. Winslow, 1 pen.

BUFF WYANDOTTES—Chester M. Perkins, 1 cock, 1 hen.

S. C. RHODE ISLAND REDS—V. E. Anderson, 1 cock, 2 ckl; Phillips & Sons, Oswego, 2 cock, 2-4 hen; C. C. Morse, St. Charles, 3 cock, 1-4 ckl, 3 hen; J. L. Blair, 4 cock; C. A. Pierce, 3 ckl; H. W. Prentice, De Kalb, 1 pen.

BUFF ORPINGTONS—Fred M. Heath, 1 cock, 4 plt; Mrs. J. D. Putnam, Aurora, 2 cock, 3 ckl, 2 pen; H. Scherruble, Elgin, 3 cock, 1 hen, 2 ckl, 3 plt, 1 pen; Alfred Larson, 4 cock, 4 hen, 1 plt; Gust Olson, 1 ckl; L. A. Anderson, 4 ckl, 2 plt, 3 pen; Sam Graham, Aurora, 2-4 hen; Martin Micholson, 4 pen.

BLACK ORPINGTONS—E. H. Smith, Aurora, 1 cock, 1-2 hen, 1 ckl, 1-2 plt.

WHITE ORPINGTONS—J. A. Gustafson, 1 cock, 1-2 hen, 2 plt; L. A. Anderson, 2 cock; Hassel & Anderson, 3 cock; C. A. Pierce, 3-4 hen, 1 plt.

BLUE ORPINGTONS—C. A. Pierce, 1 cock, 1-2-3 hen.

PIT GAMES—Archie Hammond, 1 cock, 1-2 hen.

SILVER SEBRIGHT BANTAMS—Mrs. Fanny Webb, South Elgin, 1 cock, 1-2-3-4 hen, 1 ckl, 1-2-3-4 plt.

GOLDEN SEBRIGHT BANTAMS—J. R. Ayres, 1 cock, 1 hen.

BLACK BREASTED RED GAME BANTAMS—H. Davy, 1 ckl, 1-2-3-4 plt.

R. C. BARRED ROCK BANTAMS—J. R. Ayres, 2 cock, 1 hen; A. G. Bopp, 1 cock, 2-3-4 hen, 1 ckl, 1-2 plt.

WHITE JAPANESE BANTAMS—George A. Putnam, 1 ckl, 1-2 plt.

WHITE PEKIN DUCKS—W. P. Forster, Geneva, 1 drake, 1 duck; Earl Swank, 1 pen.

ROUEN DUCKS—W. L. Grimes, 1-2 drake, 1-2 duck.



Madison Square WINNERS

Kulp's wonderful Rose Comb Brown, 242-egg strain; S. C. Brown, 240-egg strain; both big winners at Madison Square. Large birds, large eggs, 2 greatest strains bred.

Four customers in New York, two in Montana, one in Idaho, two in B. C., one in England and many others have written me that my Rose Comb Brown Leghorns excel all others as layers, and lay large eggs. I never had so many prizes reported as this year.

One man writes: "When it comes to Single Comb Browns you are in a class by yourself." I have most Wonderful male color. Stock for sale, all breeds.

Rose Comb White, first Madison Square, big white eggs, big birds, record of 244 eggs.

S. C. Whites—236 to 288 egg strains. No better in the world. Try them.

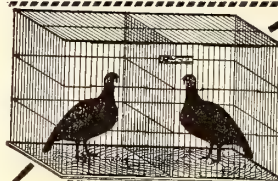
S. C. Red cockerels of 248 egg strain. They are the top.

White Wyandottes—228 egg line.

Barred Rocks—270 egg strain.

Eggs \$2 to \$7 per 15. Catalogue.

W. W. KULP, Box 70, Pottstown, Pa.



Show your fowls in our clean and handy, vermin-proof coops. Used by leading fanciers and poultry shows. Finest looking coop on market.

Keipper Collapsible Coops

Made entirely of galvanized wire. Fold perfectly flat. Easily stored. Easy to set up. Shipped by parcel post. Outfits rented to bench shows. Write for catalog and money-saving prices.

KEIPPER COOPING CO., 1401 First St., Milwaukee, Wis.

ROUP—Stop That Wheezing and Sneezing

A package of Roup Remedy for flock treatment also bottle of Roup Remedy for individual treatment. Price 50c.

Colds and Bronchitis capsules, 100 for 50c. Guaranteed to satisfy or money refunded. Mailed upon receipt of price. Stamps accepted. Write me your troubles.

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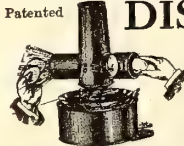
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is the cheapest, as well as the best dog bred today when you consider that "They will do anything that another dog can do." Hunters, ratters, watch-dogs, companions, stock-drivers, all in one. Spayed Bitch Pups make wonderful good all round dogs. Our Pamphlet will tell you—its FREE.



Collies—Beautiful, intelligent, reliable. Dog and bitch pups, spayed pups, matured stock for sale. List on request. P. L. Savage, St. Charles, Illinois.

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Price single tester.....\$1.00

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Big Black Figures on White Background.

All colors, all sizes, for all fowls, and pigeons. Birds identified without handling. Saves time and labor. Baby chick bands 18 colors, not numbered. The best band in the world to-day. Samples and catalog FREE. Mention A. P. J.

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The Automatic Trap Nest

is the best, most simple, accurate and impossible to get out of order. You should use the trapnest, the cost is small, the profit large. The Automatic will weed out the poor layers out of your flock, reduce your feed bill, increase your profits and enable you to breed to Standard. Send for particulars.

THE AUTOMATIC TRAP NEST CO.
475 Wisconsin Street Kenosha, Wis.

COLORED MUSCOVY DUCKS—Mrs. Geo. Wall, 1 drake, 1-2 duck.
CAYUGA DUCK—W. L. Grimes, 1 duck.
FAWN AND WHITE INDIAN RUNNER DUCKS—Mrs. George Wall, 1 drake, 1-2 duck.
CANVAS BACK DUCKS—E. C. Weaver, 1 drake, 1 duck.
WILD MALLARD DUCKS—E. C. Weaver, 1 drake, 1 duck.
CHINESE GEESE—E. C. Weaver, 1 gander.
TOULOUSE GEESE—F. E. Wolcott, 1 gander, 1 goose.

AWARDS AT THE GALLIPOLIS OHIO SHOW.

C. J. McCormick, Secretary.

BARRED ROCKS—A. R. Probst, 1-2-3 cock, 2-4-5 ckl, 4-5 plt, 2-3 pen; E. L. White, 4-5 cock, 1-3 ckl, 1-2 hen, 1 plt, 1-5 pen; Wm. Corneman, 2-3 plt, 4 pen.
WHITE ROCKS—All to Ira Mills.
BUFF ROCKS—All to Paul Stevens.
PARTRIDGE ROCKS—Phil Cooley, 2 ckl, 1-4 plt; W. J. Mausbaum, 1 hen, 1 ckl.
WHITE WYANDOTTES—McCormick Egg Farm, 1-2-4 cock, 2 hen, 1 pen; A. E. Graham, 3 cock; D. W. Swan, 1-3-5 hen, 1 ckl; John McNealey, 5 cock, 4 hen; Arthur M. Blazer, 2 pen.
COLUMBIAN WYANDOTTES—All to McCormick Egg Farm.
R. C. RHODE ISLAND REDS—George E. Whipple, 2 ckl, 1-2-3-4 plt, 1 pen; Harry Rosser, 5 plt; Jno. S. Rodgers, 3 ckl; Gus Amsbury, 1 ckl, 3 hen.
S. C. RHODE ISLAND REDS—Leifheit & Gills, 2 cock, 4 ckl, 1 plt, 2 hen; W. E.

Petty, 1 cock, 1-2-3 ckl, 2-3-4 plt, 1 pen.
S. C. WHITE LEGHORNS—McCormick Egg Farm, 1 cock, 3 ckl, 5 hen, 1-5 plt, 1 pen; C. H. D. Summers, 2 cock, 1 ckl, 2 hen, 2-3 plt, 2-3 pen; John Danner, 4 cock, 1-3 hen, 5 pen; L. J. Sheets, 2 ckl, 4 plt, 4 pen; Paul Stevens, 3 cock, 4 ckl, 4 hen.
S. C. BUFF LEGHORNS—T. S. Berridge, 1 cock, 2-3 ckl, 2 hen, 1-2-3 plt, 1 pen; J. E. Richards, 1 hen, 1 ckl.
R. C. BROWN LEGHORNS—All to W. G. Bird.
R. C. WHITE MINORCAS—All to H. L. Carson.
S. C. BLACK MINORCAS—W. H. Belcher, 1 cock, 2 ckl, 2 plt, 3 hen, 1 pen; Elias Wetherholt, 3 cock, 1 ckl, 1-2 hen, 1 plt, 2 pen; Arthur M. Blazer, 2 cock, 4-5 hen.
BLACK LANGSHANS—Morris McConnell, 1 cock, 1-2-4-5 hen, 1 pen; McCormick Egg Farm, 2 cock, 1 ckl, 3 hen, 1-2-3-4 plt, 2-3 pen.
LIGHT BRAHMAS—All to Paul Stevens.
PARTRIDGE COCHINS—All to John McNealey.
BUFF COCHINS—All to A. S. Dickson.
S. C. WHITE ORPINGTONS—Fred Foster, 1-3 cock, 1-3 ckl, 1-2-3-4 hen, 3-4 plt, 1-2 pen; Ed. Beilstein, 2 ckl, 2-5 plt; Ed. McGhee, 2 cock, 1 plt.
S. C. BUFF ORPINGTONS—Hamison Wilcox, 1 cock, 2 hen, 4 plt, 1 pen; T. G. Brandebury, 2 ckl, 1-2-3 plt, 2 pen; Adam Miller, 1-3 ckl; Lee Halley, 2 cock, 4-5 ckl, 1 hen, 5 plt, 3 pen.
S. C. BLACK ORPINGTONS—All to L. C. Green.
BUFF LACED POLISH—All to McCormick Egg Farm.
WHITE CRESTED BLACK POLISH—All to McCormick Egg Farm.
GOLDEN POLISH—All to C. C. Palmer, Whipple, O.

DARK CORNISH—All to E. H. Perkins, McArthur, O.
HOUDANS—All to H. S. Rosser.
SULTANS—All to F. E. Cherrington.
SILVER SPANGLED HAMBURGERS—All to W. H. Belcher.
ANCONAS—All to A. J. Green.

OCONOMOWOC, WIS., POULTRY SHOW.

George H. Northrup, Judge.

The Oconomowoc Poultry Association are fortunate in having among their members many interested fanciers thru whose efforts, a poultry show worthy of recognition is annually held. This year's exhibition proved to be one of the best ever given thus far. Most of the well-known and popular varieties were well represented.

F. S. Clausen, Oconomowoc, Wis., was a winner in the White and Golden Wyandotte classes. Mr. Clausen also had the distinction of making a very creditable win at the Chicago Coliseum, December, 1915.

O. R. Eddy, Oconomowoc, Wis., won the majority of the prizes in Columbian Wyandottes. The Columbians owned by Mr. Eddy were also winners at the recent Chicago Coliseum Show. His birds are of a fine quality throughout.

Chanticleer Farm, Oconomowoc, Wis., secured good wins in both the S. C. Red and White Leghorn classes.

Pabst Stock Farm, Oconomowoc, Wis., won many of the honors in the S. C. White Leghorn class, which included best display.

This particular show is of unusual merit and is sure to become one of the best known and popular exhibitions held in southern Wisconsin. F. D. Rogers.

Here is Your Chance to Save Money

Read This Letter from San Jose, California

Simplex Supply House, Pontiac Building, Chicago, Ill.

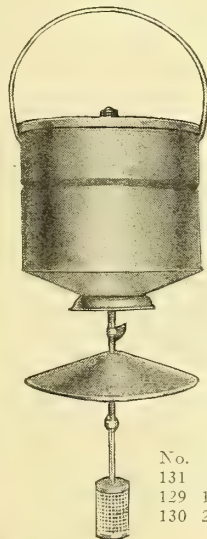
Gentlemen:—The Simplex "Faultless" Poultry Feeder ordered from you some time ago has given entire satisfaction and is indeed "faultless" in every particular in our opinion, as is expressed by the enclosed order for eight more, together with order for twelve Grit Boxes and one-half dozen Dry Mash

229 S. 16th St., San Jose, Cal.

6-Quart
only
\$1.20

\$1.60

10 Quarts
The Original



The original "Kant Klog" automatic feeder; feeds anything from millet seed to whole corn, either mixed or separate. Swinging pendulum motion — absolutely adjustable — simply impossible to clog.

Birds peck at grain in lait carrier, swinging pendulum and grain drops from cup under hopper to deflector and then on ground.

No.	Capacity.	Retail Price.	Our Net Price.
131	6-qt.....	\$1.50	\$1.20
129	10-qt.....	2.00	1.60
130	20-qt.....	2.50	2.00

We Sell Direct from
Factory to Consumer

Save 20% to 33 $\frac{1}{3}$ %
By Buying Your Poultry
Appliances from Us

We specialize in the manufacture of automatic feeders, which save more time and more feed than any other appliance in the poultry yard. No well equipped poultry farm is seen today where automatic feeders are not used. On large farms they save the wages of at least one man. For small flocks they can not be excelled. Filling the feeder once a week is a good deal less work than feeding several times a day. There will be no grain lying around on the ground, no loss from pilfering birds, rats and mice. No staying at home simply to feed the chickens.

In addition to cutting down the feed bills, automatic feeders increase the egg production of the hens. They will be in laying condition at all times, as these feeders give them the proper exercise and they digest every bit of grain they eat.

Be up-to-date and increase the profit from these fowls at least 25% by the use of automatic feeders. Made in styles and sizes shown hereon. We guarantee they give absolute satisfaction. If they do not, we refund the money. That's the guarantee under which we sell all our products—direct to the consumer at wholesale prices.

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Pontiac Building Chicago, Illinois

REMEMBER—Your money is refunded promptly if you are not satisfied.

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Smaller
Sizes
75c

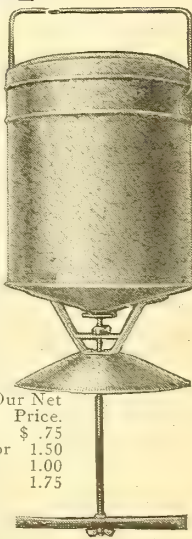
16 Quarts
Half-Bushel



This "Faultless" feeder feeds any kind of grain, either mixed or separate. Rotary pendulum motion, absolutely adjustable and cannot clog. It represents the biggest value ever offered in automatic feeders. Furnished complete, including cover and bail, at the following ridiculously low prices, made possible only by our enormous output:

No.	Capac.	Retail Price.	Our Net Price.
151	5 Qt..	\$1.00	\$.75
*152	1/2 Bu..	1.00	2 for 1.50
153	1/2 Bu..	1.50	1.00
154	1 Bu..	2.00	1.75

*Note—No. 152 packed two in box and not sold singly.



Our money-saving catalog describing Feeders, Brooders, Incubators, Grain Sprouters, Fountains, Feeding Troughs, Mash Hoppers, Grit Boxes, Brood Coops, Exhibition Coops, Trap Nests, Egg Carriers, Leg Bands and various Remedies and Preparations of merit will be sent upon request or upon receipt of your order from this advertisement.



The first prize Silver Wyandotte cockerel at the Chicago Coliseum Show has all the earmarks of a first-class specimen of the breed. The bird was bred and is owned by A. & E. Tarbox, Yorkville, Ill., who have bred this variety over 25 years.



L. B. Resseguie of Millers, N. Y., showed a fine string of his Barred Plymouth Rocks at the Palace Show, 1915. The bird in the above unretouched picture won second prize in one of the strongest competitions ever shown at the Palace.—L. A. S.

AWARDS OF BEDFORD, IND., SHOW.

Dr. John G. Hogan, Secretary.

BLACK LANGSHANS—C. S. Myers, El-nora, Ind., 1-2 cock, 1-2-3-4 hen, 1-2-3-4 plt, 1-2 pen.

WHITE LANGSHANS—Alvie Flynn, Koeleen, Ind., 1 cock, 1 hen.

BARRED ROCKS—H. C. Whiting, Bedford, 1 ex. cock, 1-2-3-4 ex. ckl, 1-2-3-4 ckl-bred plt, 2 ckl-bred hen, 2-3-4 ex. plt, 1 ex hen, 1 ex pen, 1 ckl-bred pen; A. C. Brown, Holton, Ind., 1 plt-bred cock, 1 plt-bred ckl, 1 ex plt, 4-5 ex hen, 2 ex pen; J. O. Humphreys & Co., Plainfield, Ind., 2 plt-bred ckl, 1-2 ckl-bred hen; Ernest Clansey, Switz City, Ind., 3 plt-bred ckl; N. D. Bond, Corydon, Ind., 2 ex hen, 4 plt-bred ckl.

S. C. RHODE ISLAND REDS—Fred M. Breedlove, Plainfield, Ind., 2 cock, 1-4 hen, 2 ckl, 2-4 plt, 1 pen; Harry N. Staleup, El-nora, Ind., 4 ckl, 3 hen, 2 pen; Sherman Funk, Bedford, 3 ckl, 3 pen; Wayne Harriman, Bedford, 3 ckl, 4 pen; W. Grant Hitonen, Columbus, Ind., 1 ckl, 3 plt; Geo. Smith, Bedford, 1 plt; W. A. Wilson, Bedford, 4

hen; J. L. Dilman, Bedford, 4 cock; Alvie Flynn, 1 cock.

R. C. RHODE ISLAND REDS—Henry Daubenspeak, Switz City, Ind., 1 ckl, 1-2-3 plt.

WHITE ORPINGTONS—Sidney Brooks, Bedford, 1 cock, 1-2-3-4 hen, 1-2 pen; Alvie Flynn, 1 plt.

S. C. BUFF ORPINGTONS—G. W. Carroll, Odon, Ind., 1 cock, 1-2-3-4 hen; C. H. Breeden, Odon, 1-2 ckl, 1-2-4-5 plt, 1 pen.

GOLDEN WYANDOTTES—Noble Malotte, Tunnelton, Ind., 1 cock, 1-2-3-4 hen, 1-2-3-4 plt, 1 pen.

SILVER LACED WYANDOTTES—Robt. Bolin, Chrisney, Ind., 1-2 cock 1-3 hen, 2-3 ckl, 4 plt, 1 pen; J. H. Rutherford, Bedford, Ind., 4 cock, 2-3 hen, 1-2-3 plt, 1 pen; Jno. D. Weber, Bedford, 1 ckl, 3 pen; Clyde Brown, Oolitic, Ind., 3 cock, 4 pen; Noble Malotte, 4 ckl.

WHITE WYANDOTTES—T. J. Holtger, Bedford, 1 hen, 2 ckl, 1-3 plt, 1 pen; Steve Raun, Bedford, 1-3 ckl, 2-4 plt, 2 pen; J. D. Richardson, Bedford, 2-3 cock, 2-3-4 hen, 3-4 pen, 1 old pen; C. H. Allen, Ft. Ritner, Ind., 1 cock; Jesse C. Arvin, Odon, Ind., 4 cock; C. C. Cerroll, 4 ckl.

WHITE ROCKS—Deer & Hutchins, White-

land, Ind., 1 cock, 1-2-3 hen, 2 ckl, 1-2 plt, 1 pen; Frank Speer, Tunnelton, Ind., 2 cock, 1-3 ckl, 3-4 plt, 2 pen; Jno. Scott, Bedford, 3-4 cock, 4 hen, 4 ckl, 3 pen; W. S. Jennings, Indianapolis, Ind., 4 pen.

BUFF ROCKS—Chastain Bros., Mitchell, Ind., 1-2 ckl.

S. C. WHITE LEGHORNS—Dr. J. C. Hogan, Bedford, 1-3 ckl, 1-3-4 plt, 1 pen; Frank Speer, 2 ckl, 3 pen; Dr. J. D. Horton, Paoli, Ind., 1 cock, 4 ckl, 2 plt, 2 pen.

S. C. BROWN LEGHORNS—James Wood, Bedford, 1 ckl, 1-2 plt.

R. C. BROWN LEGHORNS—Chastain Bros., 1-2 ckl, 1-2-3-4 hen, 1 pen.

INDIAN GAME—Alvie Flynn, 1 hen.

DARK CORNISH—Geo. R. White, Eaton, O., 1 ckl, 1 plt.

TURKEYS—Mrs. B. F. Clark, Springville, Ind., best pair; Chastain Bros., 2d best pair.

DUCKS—Mrs. B. F. Clark, best pair.

AWARDS AT GREEN BAY, WIS., SHOW.

BARRED PLYMOUTH ROCKS—E. A. Weise, 1 cock, 1-2 hen, 2-3 plt; W. A. Horne, 3 hen; Alvin Prengle, 1 ckl; H. E. Herbeck, 1-4 plt.

WHITE ROCKS—Geo. Schwartz, 1 cock;

BABY CHICKS

Secure these healthy, bright-eyed little fellows from our famous strains. You'll lay the foundation for a heavy laying flock and for success at the shows next season. We guarantee the chicks to reach you safely.

Monmouth Buffs and S. C. W. Leghorns

Our Buffs won at Madison Square Garden, 1st Cock; 1st, 3rd and 4th Cockerel; 2nd Hen; 1st and 3rd Pullet; 1st Pen, and Best Display.

This is a record unapproached by any other strain—a splendid tribute to Monmouth vigor and quality.

Our birds are large, hardy and vigorous. The pullets mature quickly and are unexcelled as layers. Many of our breeding hens have produced more than 180 eggs during their pullet year.

Send now for mating lists and price lists of Baby Chicks and Hatching Eggs—Whites or Buffs.

Wm. Stanley Hill, Owner
N. Y. Office, 103 Park Ave.

Monmouth Farms

John Lockwood, Supt.
Box 23, FRENEAU, N. J.

HATCHING EGGS

Start right with eggs from our carefully selected mating pens. Our unrivalled list of winnings insures satisfaction. We pack carefully and ship promptly. After March 1st, we guarantee a fertility of at least 85%.

Sex Control SPOK AHNE STRAIN

Black Langshans, 15 eggs \$25. Eight chick or replace free. Six pullets or exchange even. Pullets give you 70% females, or we replace free. Your money's worth—they make good or we do.

HERB. E. SHARP LAN SHAN FARMS
R. F. D. No. 3, SPOKANE, WASH.

ATHERTON'S FAMOUS SILKIES

The REAL Birds

EGGS \$6.00 per setting; two settings, \$10.00. Single Birds, \$5.00 to \$25.00

W. B. ATHERTON
Randolph, - Massachusetts

Are You Breeding Poultry for Profit? Read ad on page 470.

J. F. Tennis, 2 cock, 2 plt; Valley View Farm, 1-2-3 hen, 1-3-4-5 plt.

WHITE WYANDOTTES—Hoslet VanCalster, 1-2 cock, 1-2-3-4-5 hen, 1-2-3-4 ckl, 1-2-3-4 plt; Jos. Villmure, 3 cock; E. F. Hartwig, 5 plt.

S. C. WHITE ORPINGTONS—Jos. Lurquin, 1-2 cock, 1-2-3-4 hen, 1 ckl, 1-2-3-4 plt; C. C. Phelps, 5 hen, 5 plt.

R. C. RHODE ISLAND REDS—W. H. Laabs, 1 cock, 5 plt; Chas. Fose, 2 cock, 1-2-3-4 ckl; Geo. Brenner, 4 ckl, 2-3 plt; A. Jacquaman, 1 plt; H. Nelson, 4 plt.

S. C. RHODE ISLAND REDS—M. J. Rahn, 1 cock, 4 hen, 3 ckl, 4 plt; W. H. Laabs, 2-3 cock, 1-2-3 hen, 1-2-3-5 plt; F. Fronk, 1-2-4 ckl; E. F. Hartwig, 5 ckl.

PARTRIDGE WYANDOTTES—Mrs. J. Jacquaman, 1 cock; W. Hope, 1 ckl, 1 hen, 1-2-3 plt.

S. C. BLACK ORPINGTONS—J. Wolters, 1 cock, 3 hen; O. Ploetz, 1-2-4 hen, 1-2-3 ckl, 1-2-3-4-5 plt; W. A. Horn, 3 ckl.

BLACK LANGSHANS—A. Stransky, 1-2 cock, 1-2-3-4 hen, 1-2 ckl, 1-2-3-4 plt.

S. C. WHITE LEGHORNS—Chas. J. O'Connor, 1-2 hen, 1 ckl, 2 cock; N. J. Shaden, 1 cock, 3-4-5 hen, 1-2-4-5 plt; J. Wolters, 3-4-5 cock, 3 ckl, 3 plt; August Johnson, 2 ckl.

S. C. BLACK MINORCAS—M. J. Laluzerne, 1-3 cock, 3 hen, 1-3 plt; A. Lardinois, 2 cock; J. M. Franssens, 1-2-4-5 hen, 1-3 ckl, 1 plt; Geo. C. Brenner, 2 ckl.

S. C. BLACK LEGHORNS—J. Van Erman, 1-2 hen; W. Hope, 1 ckl, 1-2-3-4-5 plt.

R. C. BUFF LEGHORNS—Geo. C. Brenner, 1 ckl, 1 plt; W. A. Horn, 2 plt.

S. C. ANCONAS—Ed. J. R. Meyer, 1 cock, 1-2-3 hen, 1-2 ckl, 1-2-3-4-5 plt.

S. C. HAMBURGS—Valley View Farm, 1 cock.

RED SUSSEX—C. Daniels, 1 ckl, 1 plt.

WHITE CRESTED BLACK POLISH—W. A. Zehms, 1 cock, 1-2-3 hen, 1 ckl, 1-2-3-4-5 plt.

FRIZZLES—F. Minkibege, 1 cock, 1 hen, 1 plt.

SILVER CAMPINES—W. McCormick, 1 cock, 1-2 plt.

S. C. BLUE ANDALUSIANS—L. H. Hobel, 1 cock.

WILD MALLARD DUCKS—W. Vandennoven, 1-2-3 cock, 5 hen, 1 ckl, 1-2-3-4-5 plt; Peter Huybrecht, 4 cock, 1-2-3-4 hen.

AWARDS AT MELROSE PARK, ILL., SHOW.

R. C. Jamieson, Secretary.

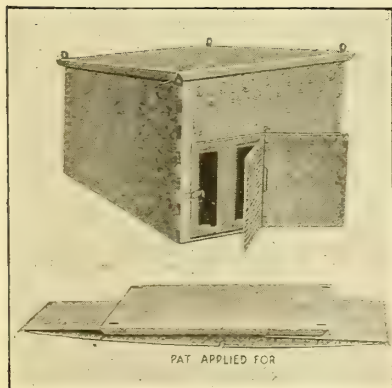
WHITE ORPINGTONS—John J. Schabell, 3331 Cuyler Ave., Chicago, 1-2 plt; Benj. Barsena, 400 N. 6th Ave., 1 ckl; E. W. White, 227 N. 3d Ave., Maywood, 3 ckl, 3 plt; W. E. Read, 919 N. 7th Ave., Maywood, 1 cock, 1 hen, 2-4-5 ckl, 4-5 plt, 1 old pen, 1 yng pen; L. K. Carter, 1014 N. 12th Ave., Melrose Park, 3-4-5 hen; Alfred Engling, R. 1, Elmhurst, 2 hen, 3 plt.

BUFF ORPINGTONS—E. W. White, 2 cock, 2-3 hen, 4 yng pen; W. F. Galitz, 3938 N. Paulina St., Chicago, 3 yng pen; Emma Willard, Downer's Grove, 5 ckl; Harry J. Davison, 8816 Lowe Ave., Chicago, 2-3 ckl, 1-2-5 plt, 2 yng pen; Joe Best, Brookfield, 4 ckl, 4 plt, 1 old pen; F. A. Kaup, 1 cock, 1 hen, 1 ckl, 2 plt, 1 yng pen.

BLACK ORPINGTONS—M. F. Martin, 3895 Park Ave., Chicago, 1-2-3-4-5 hen.

WHITE WYANDOTTES—E. Fetzer, N. 35th Ave., Melrose Park, 2 ckl, 1-5 plt, 3 old pen; C. Merkel & Son, 4526 N. Sawyer Ave., Chicago, 2 ckl, 4 plt; McMaster Bros. Poultry Farm, 1418 N. 12th Ave., Maywood, 1 yng pen; C. A. Coats, 4 hen, 4 ckl; J. E. Young, 3511 N. Keating Ave., Chicago, 1

Collapsible COOPS



The above illustration shows Coop Open and Closed.

Provide a HOME for Your CHICKS

Perfectly sanitary and rat-proof. Write for particulars. Agents wanted.

Whitmore Mfg. Co. - Galva, Ill.

Eggs and Day-old Chicks

Rogers' S. C. W. Leghorns

have been carefully selected and bred for vigor and egg production. The females in my 1916 mating pens are extra good fowls, and the males heading each pen are descendants of hardy and consistent layers.

Rogers' Eggs or Chicks assures you of stock whose vitality, laying ability and well shaped heads and bodies bring you satisfaction and profit.

Prices of Eggs range from \$6 per 50 to \$45 a 1,000.

Prices of Chicks, from \$12.00 per 50 to \$120.00 per 1,000—according to the pens selected.

Write today for free booklet, describing breeding pens, special advisory service to customers and my guarantee. It also gives prices on cockerels, pullets and yearling hens.

C. A. ROGERS, Box J-3, BERGEN, N. Y.



BABY CHICKS

White Wyandottes, Barred Rocks and R. and S. C. Rhode Island Reds - - \$10 per 100
White and Brown Leghorns, \$9 per 100: Prompt shipment. Stock guaranteed.

THORNWOOD POULTRY YARDS, C. A. Sims, Mgr., CRANDALL, IND.

EGGS FROM OUR BEST PENS



Chicago, Quincy, Springfield winners and \$5 descendants; fertility guaranteed, per setting

Test in February Shows 90% fertile—all pens. We replace infertiles free. Every pen mated by specialist. Others ask double for same quality. Our co-operative plan saves you money. Our catalog tells all about it, gives descriptions and show record for past five years of our

S. C. W. and S. C. Brown Leghorns, Barred Rocks, S. C. and R. C. Reds, Black and Wh. Orpingtons and Wh. Wyandottes

Send for it today. Buy eggs where quality counts. All our varieties bred by experts and win for us in strongest competition. They will win for you.

QUINCY POULTRY FARMS, A-2700 MAINE ST., QUINCY, ILL.

Eggs for Hatching and Baby Chicks

S. C. WHITE LEGHORNS

from my grand exhibition matings. Eggs, \$5.00, \$3.00 and \$2.00 per 15. Chicks, 50c each. Utility eggs, \$5.00 per 100. Chicks, \$12.00 per 100. I guarantee to replace all unfertile eggs, and safe arrival of chicks. I want your order and, remember, your absolute satisfaction means my permanent success.

C. W. MOELLER

Box 278

QUINCY, ILL.

White Rocks — Chicago Winners

A winning here proves the quality. Eight of our birds among the winners at Chicago, January, 1916. Pens now mated.

Eggs for Hatching

Day-Old Chicks

We guarantee to please you in every way. Send for our free mating list before buying elsewhere.

MAYWOOD WHITE ROCK YARDS, Robt. Stevens, Mgr., MAYWOOD, ILL.

SINGLE COMB WH. LEGHORNS

Breeder and importer of Tom Barron's strain exclusively. Winning ribbons at Missouri. Fifteen choice cockerels and twenty-five choice pullets left for sale. Eggs for hatching from selected matings. Price list upon request. M. J. QUACKENBUSH, NUTLEY, N. J.

Increase your egg production 100%. Read advertisement on page 449

J. C. Fishel says:

"This Brooder outclasses them all"

This is a copy of a letter just received from the world renowned J. C. Fishel, of Hope, Ind.

Buckeye Incubator Company,
Springfield, Ohio.

My Dear Sirs:

After trying out the Standard Colony Brooder, I am thoroughly convinced that you have a brooder that outclasses all others of this kind.

We have been working it right along with various other coal brooders which we have had several years, and this brooder has demonstrated its superiority over them all.

I am enclosing herewith check for the one you sent us some time ago as per our agreement, and I am requesting you to ship four more of these, immediately, by first freight. Two of these are for my own use, and two are ones which I have induced U. R. Fishel to buy, and I feel confident that he will give you further orders.

Please get these out promptly and do not lose any time in the order, as I am needing one of mine not later than the last of this week.

Yours respectfully,
J. C. FISHEL & SON,
Hope, Indiana.

Feb. 7th, 1916.

This is a pretty strong statement for J. C. Fishel to make and the "STANDARD" must be a remarkable brooder to draw such outspoken testimony from a man with his experience.

Why not write Mr. Fishel about it—or ask the Buckeye Incubator Co. to send you a catalog.



1st and Champion White Rock Cockerel, Boston, 1916.

At the Pre-eminent show of America, held at Boston, 1916, our

Wh. Plym. Rocks

Made a most wonderful record in one of the strongest classes ever shown. This record win tells its own story.

1-2-3-4 Pullet; 1-4-6 Cockerel;
5-6 Hen 2-4 Pen

Champion male and best display. Our circular gives matings and prices free on request.

W. F. HAYWARD WESTBORO, MASS.

The White City Egg Farm, Seville, Ohio,

Has one of the finest Egg-Strains of Leghorns in America. If in need of stock or eggs, write for prices and a surprise is awaiting you.

hen, 5 ckl, 3 plt, 2 old pen; D. A. Edmond, Waukegan, 1 hen, 1 ckl; M. F. Martin, 1 cock, 3-5 hen, 3 ckl, 2 plt, 1-4 old pen, 2 yng pen.

COLUMBIAN WYANDOTTES—Jos. Hank, Waukegan, 1 cock, 1 hen, 1-2 plt; Leo A. Lee, 5630 Wilson Ave., Chicago, 1 ckl.

PARTRIDGE WYANDOTTES—Edwin H. Oliphant, 819 N. 8th Ave., Maywood, 1-2 plt.

GOLDEN WYANDOTTES—Wm. Stewart, N. 35th Ave., Melrose Park, 1-2 ckl, 1-2 plt.

R. C. WHITE MINORCAS—E. Fetzner, 1-2-3 ckl, 1-2-3 plt, 1 yng pen.

BLACK MINORCAS—A. E. Hartman, 405 N. 7th Ave., Maywood, 1-2-3-4 hen, 1-2 old pen; John H. Garnett, 157 23d Ave., Melrose Park, 2 plt; Archer Darrow, Waukegan, 5 hen, 1 ckl, 1 plt.

BARRED ROCKS—Alvin Piper, Oak Lawn, 1 ckl, 1 ckl-bred plt; H. G. Stockton, 811 N. 7th Ave., Maywood, 1 old pen; A. E. Lemieux, 4539 N. St. Louis Ave., Chicago, 3 cock, 2 plt, 1 hen, 3 ckl; John Wilcox, 118 S. 14th Ave., Maywood, 2 cock; James T. Love, 313 S. 3d Ave., Maywood, 2 ckl, 1-2-3 plt; R. D. Smith, 810 N. 5th Ave., Maywood, 1-2-3 hen, 4-5 plt.

S. C. RHODE ISLAND REDS—A. N. Hiller, 5 plt; G. A. Leeck, 4912 Iowa St., Chicago, 1 cock, 4 yng pen; Wm. Bowman, Elmhurst, 2 hen, 3 yng pen; J. L. Deaver, 2744 N. St. Louis Ave., Chicago, 1 hen, 1 ckl, 3-4 plt, 1 yng pen; R. A. Nordin, La Grange, 2 yng pen; E. H. Spencer, 3916 N. Crawford Ave., Chicago, 5 ckl, 2 plt; Fred A. Lind, 4 ckl; H. J. Booth, Park



First prize White Plymouth Rock cock, Greater Chicago Show, January, 1916. Extra fine specimen, grand type and color. Owned and bred by John Grant, Richmond, Ill.—F. D. R.

Ridge, 3 ckl, 1 plt; P. E. Turner, 2017 S. 3rd Ave., Maywood, 5 yng pen.

R. C. RHODE ISLAND REDS—A. E. Hiller, 3 ckl; Wm. Bowman, 1 yng pen; Fred A. Lind, 4542 N. Keating Ave., Chicago, 1-2 ckl.

WHITE ROCKS—Broadview Poultry Farm, 22d and Harrison Sts., 1-4 cock; Maywood White Rock Yards, 2 cock, 3 hen, 2-4-5 ckl, 5 plt, 2 yng pen; E. M. John, 2 hen; Lesser Bros., 4546 N. Drake Ave., Chicago, 5 cock, 1 ckl, 1-3-4 plt, 1 yng pen; F. C. Bicknase, 619 N. 7th Ave., Maywood, 5 hen.

COLUMBIAN PLYMOUTH ROCKS—Erwin H. Spencer, 1 yng pen.

S. C. BROWN LEGHORNS—Ben Hooff, 2 ckl; Jos. H. Collins, 4637 N. Avers Ave., Chicago, 1 cock, 1-2 hen; H. Mielke, 212 S. 8th Ave., Maywood, 1-3 ckl.

R. C. BROWN LEGHORNS—E. J. Casser, Hollywood, 1 cock, 2 hen; Jos. H. Collins, 3-4 hen; K. A. Young, 223 S. 13th Ave., Maywood, 1 hen, 1 ckl, 1 plt.

S. C. BUFF LEGHORNS—Scoville Poultry Farm, 221 S. Scoville Ave., Oak Park, 5 hen; O. Hagerup, 3 cock, 3-4 plt; C. H. Fritschow, Brookfield, 4 cock, 4 ckl, 2 yng pen; C. A. Campbell, 1913 W. 59th St., Chicago, 2 hen, 2 ckl; B. Parrott, 3840 Huron St., Chicago, 3 ckl, 1 plt; P. J. McKeon, 3852 N. Keystone Ave., Chicago, 2-5 plt; F. A. & R. C. Jamieson, Maywood, 1-2 cock, 1-3-4 hen, 1-5 ckl, 1 old pen, 1 yng pen.

WHITE LEGHORNS—Wm. A. Albers, Lombard, 1 ckl; McMaster Bros. Poultry Farm, 1 cock; Wm. J. Smith, Brookfield, 2 plt, 1 yng pen.

S. C. BLACK LEGHORNS—Jos. H. Collins, 1 plt.

R. C. BLACK LEGHORNS—Jos. H. Collins, 1 plt.



1st Cock, New York State Fair, 1914

1st Pullet, Grand Central Palace, N. Y., 1914

"They Were Bred at Rancocas"

S. C. White Leghorns

HATCHING EGGS

100% Fertility Guaranteed

Eggs from husky, vigorous yearling or older hens, mated with cockerels full of vitality. All bred for egg production, right on our own farm. All eggs shipped promptly.

DAY-OLD CHICKS

Delivery Guaranteed

Every chick hatched from our own eggs, and delivery at your express station guaranteed. Chicks, the husky kind, that thrive. Get started right. The right kind are worth more.



White Leghorn Hatching Eggs from the Million Egg Farm

Write for free booklet, giving price, description and other information.

Winings on S. C. White Leghorns for years at shows East and West. Here are some of our latest—1st old pen, Chicago Coliseum, 1915; 1st pen, Madison Square, Feb., 1915. 4 firsts, Buffalo, 1915.

White Plymouth Rocks

have been winning at Madison Square and Boston for 10 years. Among our recent winings are—1st pen, 1st hen, Madison Square, 1916. All firsts, New York State Fair, 1915.

The Rancocas strain of White Rocks is today one of the oldest and stands among the greatest leading strains. It has for years produced winners at the big shows. This strain has been carefully bred along well-defined lines for fifteen years by the same breeder.

Send for mating list, with description of matings, winners, prices of eggs. We can always furnish you with birds to win, or stock and eggs that will produce winners.



1st Cockerel, Madison Square Garden, 1913

1st Hen, Madison Square Garden, 1913

Rancocas Poultry Farms

Box 638

Browns Mills, N. J.

Suss-X

Red and Speckled

At Greater Chicago Show we won FIRST PEN and other prizes. At Big Detroit Roundup Show we won more than all competitors combined, winning all the firsts.

Closing Out Campine Sale

Pens of exhibition quality, \$15.00. A few hatching eggs for sale from Chicago First Prize Pen of Speckled Sussex.

L. C. Brackett, Hopkins, Mich.



Carver's Red Farms have had a splendid show season. Their birds winning at Chicago Coliseum, N. Y. State Fair and ten firsts at Cleveland and Columbus, Ohio, State Fair. We show in the above picture a trio from the first prize young pen at Chicago Coliseum. The fine type and color of the birds caused many favorable comments.

S. C. LEGHORNS—E. B. Strom, 3756 N. St. Louis Ave., Chicago, 2 ckl, 1-3-4 plt.

BUFF COCHINS—Gust Dietze, 4416 Culom Ave., Chicago, 1-2-3-4 hen, 1 cock.

FAWN AND WHITE INDIAN RUNNER DUCKS—A. E. Lemieux, 1 drake, 1 duck.

WHITE INDIAN RUNNER DUCKS—A. E. Lemieux, 1 drake, 1 duck.

WILD MALLARD DUCKS—A. E. Lemieux, 1 drake, 1 duck.

COLORED MUSCOVY DUCKS—Alvin Piper, 1 duck, 1 yng drake.

BUTTERCUPS—Albert M. Rose, Bellwood, 1 hen, 1 yng pen.

ANCONAS—R. J. Tugwell, 1016 S. 4th Ave., Maywood, 1 cock, 1-2 hen, 1 plt.

LIGHT BRAHMAS—Otto Urban, 101 N. 11th Ave., Melrose Park, 1-2-3 ckl, 1-2-3-4 plt.

GOLDEN CAMPINES—E. A. Hawkins, 3456 Narragansett Ave., Chicago, 1-2-3-4 hen, 1 ckl, 3 yng pen.

HOUDANS—C. J. Lancaster, 1 cock, 1-2-3-4-5 hen.

SILVER SPANGLED HAMBURG—Wm. Stewart, 1 cock, 1-2 hen, 1-2-3-4 ckl, 1-2-3-4 plt.

AWARDS AT THE BOWERSTON, O., SHOW.

Joe R. Masters, Secretary.

S. C. ANCONAS—L. E. McClane, Scio, 1 cock, 3 hen, 1-2 ckl, 1-3 plt, 4 pen; Johnson Czatt, Scio, 1-2-3 pen; J. E. Mahaffey, Bowerston, 2 cock, 1-2-4 hen, 4 ckl, 2-4 plt.

BARRED PLYMOUTH ROCKS—C. R. McHugh, Mt. Pleasant, 2 cock, 2 ckl, 3-4 plt; H. H. Forsythe, Conotton, 3 cock, 2-3-4 pen; S. V. Host, Jewett, 1 cock, 2-3-4 hen; A. B. Manbeck, New Rumley 1 hen, 1 ckl, 1-2 plt, 1 pen.

WHITE PLYMOUTH ROCKS—Homer Brooks, Conotton, 1 cock, 1 hen, 1 ckl, 1 plt.

BUFF PLYMOUTH ROCKS—J. Z. Trimmer, Bowerston, 1 ckl, 1-2 plt.

S. C. WHITE ORPINGTONS—S. Price, Flushing, 1-2 cock, 1-2 hen, ckl, 1-2 plt, 1 pen; Rev. S. T. Walters, Bowerston, 3-4 plt, 2-3 pen.

S. C. BUFF ORPINGTONS—J. H. Brooks, Bowerston, 1 ckl, 1-2 plt, 1 pen; Frank Forbes, New Hagerstown, 1 hen, 2-3 ckl, 3-4 plt.

S. C. BUFF LEGHORNS—W. R. Burnworth, Cambridge, 1 pen; Rene Cassaubon, Maumee, 4 hen, 1 plt; H. A. Long, Jewett, 2 cock, 1-2 hen, 4 ckl, 2-3 plt, 2 pen; D. E. Host, Bowerston, 1 cock, 3 hen, 1-2-3 ckl, 4 plt, 3 pen.

S. C. WHITE LEGHORNS—Ralph S. Smith, Dillonvale, 3-4 cock, 2-3 ckl, 3-4

plt, 1 pen; R. A. Patterson, Carrollton, 4 ckl, 2 plt; Johnson Czatt, 4 pen; C. A. Dawson, Cambridge, 1-2 cock, 3 hen, 1 ckl, 1 plt; C. R. McHugh, 1-4 hen, 2 ckl, 2 pen; Lawrence Davis, Bowerston, 2 hen; Charles J. Bargar, Cadiz, 3 pen.

S. C. BROWN LEGHORNS—S. G. Hathaway, Bowerston, 1 hen, 1 ckl, 1 plt.

BLACK LANGSHANS—Paul Gartrell, Sherodsville, 1 hen, 1 ckl.

R. C. RHODE ISLAND REDS—Forest Host, Bowerston, 1 ckl, 1-2 plt.

S. C. RHODE ISLAND REDS—Lawrence Davis, Bowerston, 1 ckl, 1 plt.

BUFF WYANDOTTES—T. B. Coffy, Conotton, 1 cock, 1 hen, 2 ckl, 2 plt, 1 pen; W. H. Host, Bowerston, 2 cock, 2 hen, 1-3 ckl, 1-3 plt, 2 pen.

WHITE WYANDOTTES—Robert Dunlap, Bowerston, 1 ckl, 1 plt.

PARTRIDGE WYANDOTTES—W. A. Albaugh, Mingo Junction, 1 pen.

GOLDEN WYANDOTTES—Paul Gartrell,

A Double "Life Preserver" for Chicks

The critical time with young chicks is the first two or three weeks. If they are hovered in a good brooder they will thrive to "beat the band."

Oakes Economy Hover is more than a good brooder. It is a real "life preserver" in a double sense. Besides doing everything a perfect brooder should do, the wire cage surrounding it is *absolutely fireproof*.

Rats Kill Thousands. So Mr. Oakes invented this hinged cage which can be opened and extended, giving the chicks plenty of room, or closed tightly as desired. Made of steel throughout. Lamp and Lamp box are exclusive Oakes ideas. Only small flame maintains desired temperature. Double curtain is quickly removable. Will hover up to one hundred chicks. Price, complete with cage, \$8.00 Without cage, \$6.00 Write for free booklet showing its remarkable features. Tells how to make the Best Out-door Brooder at little cost.

PRICES
With Cage
\$8.00
Without Cage
\$6.00




Oakes Complete Line of poultry equipment is standard. Your yards may need something for spring. Write now for the "big" catalog showing everything and give yourself plenty of time.

The New "Electric Hen" Oakes' Masterpiece

New this year. Hatches by electricity. A genuine "wonder" but strictly scientific. Economical in first cost and also in operation. If you have lighting current in your house post yourself on the "Electric Hen" before buying any incubator. Free booklet. Write today to nearest address.

OAKES MFG. CO. Dept. B TIPTON, INDIANA
Eastern Office: Dept. B, 64 Cliff St., New York City



Riley's Barred Plym. Rocks

Eggs for Hatching—Season 1916

I have mated up 14 of the choicest pens I have ever owned. My Cockerel Matings are headed by the 1st and 6th cockerels, Chicago Club Show, and by my other famous winners, and my Pullet Matings by the sires of the 1st Chicago pullet and 3rd Palace pullet, and their wonderful brothers. The records made by my customers in the past prove that they are my first consideration, and that I sell eggs that positively hatch winners. My mating list is now ready to mail, and I will be glad to send you one.

Henry D. Riley, Box B Strafford, Chester Co., Pa.

Whenever you see the "Bars" think of Riley's Rocks—Barred of course



EGGS and BABY CHICKS

FROM OUR

Laybilt S. C. White Leghorns

Large, pure white—a great laying strain. All mature breeders that produce perfect fertility and strong chicks that live and grow. The most for the money.

Safe Arrival of Chicks and Eggs Guaranteed.

Everfresh Egg Farm Box A Ionia, Michigan

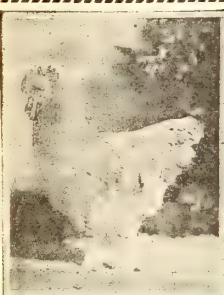
Resseguie Barred Rocks

won best display at four of the largest National Shows during the past show season, namely, Buffalo, New York Palace, Pittsburgh and State Barred Rock Show at Rochester. This follows my last year's win at the Club Show at Pittsburgh.

EGGS FOR HATCHING, \$5.00 per Setting

Write for circular. Stock for sale.

L. B. RESSEGUIE MILLERS (Orleans County), N. Y.



Hubbard's Buff ORPINGTONS

Winners at Madison Square Garden and Pittsburgh, Jan. 1916, and winners at all of the largest shows in the United States in the hands of my customers. If you want quality birds that win, get the Hubbard Strain. Hatching eggs at reasonable prices. Write for mating list.

C. H. HUBBARD, Mgr., FOXHURST FARM, Box 52, LIME ROCK, CONN.

HUBBARD'S POULTRY SECRETS

Disclosing every secret used in making Foxhurst Farm Buff Orpingtons undoubted champions for the last twelve years, winning continuously at Madison Square Garden and other big shows. This book contains valuable facts never given the public before. Live breeding chart alone is worth more than price of the book. \$2.50 postpaid. Address HUBBARD'S POULTRY SECRETS, Lime Rock, Conn.

HUDSON RIVER Chick and Egg BOXES

Thousands of chicks and eggs are being shipped each season in these boxes. Chick boxes are well ventilated and are made of double reinforced corrugated board. No extra charge for breaking a dozen. Sample 15c postpaid. Satisfaction guaranteed or money refunded. Write for free circular.

CHICK SHIPPING BOXES		HATCHING EGG BOXES	
25 chick size	\$.90 per doz.	15 egg	\$.85 per doz.
50 chick size	1.20 per doz.	50 egg	1.90 per doz.
100 chick size	1.70 per doz.	100 egg	3.00 per doz.

STAATSBURG MFG. CO., C. R. Stone, Pres. STAATSBURG-ON-HUDSON, N. Y.

Rockdale White Plym. Rocks

Hatching eggs from superb breeders—15 chances at \$3 to hatch same quality as our sensational winners at Des Moines, Ia.; Dubuque, Ia.; Madison, Wis.; Springfield, Ill.

Mating list free. 15 years with White Rocks.

Deyoe's, Station 1 Dodgeville, Wis.

Queen Strain S. C. Wh. Leghorns

are putting "pep" in many a mating this season. Why not in yours?

Stock, eggs, chicks and affidavit 200-egg cockerels. Catalog free.

APPLE GROVE POULTRY FARM Delavan, Wis.

Sherodsville, 1 cock, 1-2 hen; W. H. Host, 1 ckl, 1-2-3-4 plit.
 RED SUSSEX—D. E. Host, Bowerston, 1 ckl, 1-2-3-4 plit.
 S. C. BLACK MINORCAS—Seth Evans, Carrollton, 1 ckl, 1 plit.
 S. C. RHODE ISLAND WHITES—D. W. Boor, Bowerston, 1 hen, 1 ckl, 1 plit.

AWARDS AT THE SUPERIOR, WIS., SHOW.

W. A. Roycraft, Secretary.

BARRED PLYMOUTH ROCKS—A. E. Rieckhoff, Superior, 1-2 hen, 2-4-5 ckl, 1-2-3-4-5 plit, 1 pen, 1 plit-line ckl; D. C. Moore, Duluth, 1 ckl; A. N. Doe, Superior, 3 ckl, 1 plit-line ckl, 2 plit-line ckl.
 WHITE PLYMOUTH ROCKS—H. H. Morgan, Rice Lake, 1 hen, 1 ckl, 1 plit.
 BUFF PLYMOUTH ROCKS—Victor Tyson, Superior, 1-2 plit.
 S. C. RHODE ISLAND REDS—Boeck's Poultry Yards, Aitkin, Minn., 1 cock, 1-3 hen, 3 ckl, 5 plit, 2 pen; R. M. Clemmison, Michigamme, Mich., 2 cock, 3-4 plit; Dr. F. C. Lee, Duluth, 3 cock, 2-4-5 hen, 1-2 ckl, 1-2 plit, 1-3-4 pen; Victor Tyson, 4 cock; H. J. Hammerbeck, Superior, 4-5 ckl.
 R. C. RHODE ISLAND REDS—Jas. Borte, Superior, 1-2-3-5 ckl, 2-5 plit, 1 pen; Thos. Andrews, 4 ckl; Boeck's Poultry Yards, 1-3-4 plit, 2 pen; Ben Martin, Superior, 3 pen.

WHITE WYANDOTTES—H. J. Sharpe, Superior, 1 cock, 1-2-3-4 hen, 1 pen; Edw. Steele, Superior, 2 cock, 2 ckl, 4 plit, 2 pen; John Tyson, Superior, 3 cock, 3 ckl, 4 pen; Edw. Hogan, Superior, 5 hen, 4-5 ckl, 1-3-5 plit, 3 pen; Earl Hogan, Superior, 1 ckl, 2 plit.

BLACK WYANDOTTES—Edw. Steele, Superior, 1 ckl, 1 plit.
 PARTRIDGE WYANDOTTES—Albert Rosberg, Superior, 1-2-3-4 hen, 1 ckl; A. S. Williams, Superior, 5 hen.

COLUMBIAN WYANDOTTES—E. R. Anderson, Superior, 1 cock.

SILVER WYANDOTTES—John Tyson, 1 cock, 1 hen, 1-2-3 plit.

LIGHT BRAHMAS—L. Osborn, Superior, 2 cock; S. B. Suydam, Duluth, 1 cock, 1-2-3 hen, 1-2 ckl, 1-2-3-4 plit, 1-2 pen.

S. C. WHITE LEGHORNS—Ralph Fox, Superior, 1-2 cock, 5 hen; H. J. Hammerbeck, Superior, 1-2-3-4 hen, 1-3 ckl, 1-2-3-5 plit, 1-2 pen; Thos. Andrews, Superior, 2-4 ckl, 4 plit, 3 pen; W. E. Barber, Superior, 5 ckl.

S. C. BROWN LEGHORNS—A. N. Doe, Superior, 1 ckl, 5 plit; T. Nelson, Superior, 2 ckl, 2-3-4 plit; J. T. Kennedy, Superior, 3 ckl, 1 plit.

S. C. BUFF LEGHORNS—S. W. Coulter, Superior, 1 ckl, 1-2-3-4-5 hen, 1-2-3 plit, 1 pen.

R. C. WHITE MINORCAS—Edw. Delay, Superior, 1-2 hen, 1 ckl, 1-2 plit, 1 pen.

R. C. BLACK MINORCAS—Norman Beans, Superior, 1-2 ckl, 1 plit.

ANCONAS—S. W. Coulter, 1-2-3 ckl, 1-2-3-4-5 plit.

WHITE ORPINGTONS—Edw. Delay, 1-2 hen; White Orpington Poultry Yards, Rice Lake, 3 hen, 1-2 ckl, 1-2-3 plit, 1 pen.

BUFF ORPINGTONS—Rev. H. W. Knowles, Superior, 1 cock, 1 hen; E. R. Anderson, Superior, 1-2-3-4 ckl, 1 plit.

SILVER CAMPINES—R. E. Kenyon, Superior, 1-2 hen, 1-2 plit.

SICILIAN BUTTERCUPS—Chas. Silver, Superior, 1 hen, 1-2 ckl, 1-2-3-4-5 plit.

AWARDS AT THE BELOIT, WIS., SHOW.

Guy S. Lee, Secretary.

BARRED PLYMOUTH ROCKS—John Meyer, Platteville, 2 ckl, 5 plit, 2 pen; J. H. Troegner, Beloit, 1-2-3-4 ckl, 1 pen; Fred Bower, Woodstock, Ill., 1-3-4-5 ckl.

PARTRIDGE PLYMOUTH ROCKS—Chas. Searles, Beloit, 1-2 ckl, 1-4 hen, 2-5 plit, 1-2 pen; Victor Swamp, Beloit, 5 hen, 1-3-4 plit; David McAdams, Beloit, 2-3 hen, 3-4-5 ckl, 3 pen.

WHITE PLYMOUTH ROCKS—Claude Shriber, Stoughton, 1 hen, 1 ckl; Will Merchant, Solon Mills, Ill., 3 cock, 2 hen, 3 ckl, 4 plit; W. G. Short, Beloit, 4 hen, 1-5 plit, 2 pen; Morris Wing, Capron, Ill., 2 cock, 5 hen, 4 ckl; F. C. Zacher, Wauwatosa, 1-4 cock, 3 hen, 2-5 ckl, 2-3 plit, 1 pen; Buster Ties, Beloit, 5 cock.

BUFF WYANDOTTES—J. O. Salladay, Beloit, entered 16 birds. Every bird was awarded a premium.

COLUMBIAN WYANDOTTES—Arthur Merrill, Solon Mills, Ill., 1 hen, 1 ckl, 1-3 plit.

WHITE WYANDOTTES—J. C. Janks, DeKalb, Ill., 1 cock, 1-2-4-5 hen, 1 pen; E. W. Anderson, DeKalb, Ill., 2-3 ckl; S. J. Flint, Stoughton, 2 cock, 3 hen, 1-4 ckl, 2 plit; I. F. Canfield, Chana, Ill., 3 ckl, 1-3-4-5 plit, 2 pen.

PARTRIDGE WYANDOTTES—Frank Walker, Beloit, 1 hen, 1 ckl, 1 plit.

S. C. WHITE LEGHORNS—Guy S. Lee, Beloit, 1 hen, 1-3-4 ckl, 1-3-4 plit, 1 pen; W. G. Wilford, Beloit, 2-3 cock, 2-4-5 hen, 2 pen; E. S. Thorun, Orangeville, Ill., 1 cock, 2 ckl, 3 hen.

S. C. BROWN LEGHORNS—A. E. Key, Beloit, 1 cock, 1-2-3 hen, 2-4 ckl, 1-2 plit;



H. Cecil Sheppard's, Berea, Ohio, Anconas at the Madison Square Garden Show were the center of attraction of Ancona aisle. His birds winning, as usual, the majority of prizes in strong competition that is always found at the big New York show.—L. A. S.

First R. C. Ancona cockerel, Madison Square, 1916. A perfect Ancona in both type and color. No matter where you go, you cannot find them better. Bred and owned by H. Cecil Sheppard, Berea, Ohio.—P. K. W.

Elwood Atchison, Milwaukee, 4-5 hen; A. W. Buckridge, Beloit, 1-3 ckl, 3-4 plt.
R. C. BROWN LEGHORNS—Russell Clark, Janesville, 1 cock, 1 hen, 1-2 ckl, 1-2-3 plt, 1 pen.

SICILIAN BUTTERCUPS—Beloit Nursery, Beloit, 1-2-3-4 plt, 1 ckl, 1 pen.
S. C. BLACK ORPINGTONS—E. A. Massen, Beloit, 1 cock, 1 hen.

S. C. BUFF ORPINGTONS—Fred Krinkley, Beloit, 1-2-3-4-5 ckl, 1-2-3-4-5 plt, 1-2-3 cock, 2-3 hen, 1 pen; B. C. Knoble, DeKalb, Ill., 1 hen.

R. C. RHODE ISLAND REDS—Fred Hopper, Beloit, 1 cock, 1-2 hen, 3-4 ckl, 3-4-5 plt, 1 pen; Edward Hrobsky, Beloit, 2 cock, 5 ckl; R. H. Newman, Rockford, Ill., 1 ckl, 1 plt; J. E. Hemming, Janesville, 2 ckl, 2 plt.

S. C. RHODE ISLAND REDS—B. C. Knoble, DeKalb, Ill., 1 cock, 1-4 ckl, 1-2-3-4 plt, 1 pen; F. H. Kopp, Janesville, 2 cock, 5 plt, 2 pen; A. J. Dietz, Woodstock, Ill., 1-2 hen, 2 ckl, 3 pen; J. W. Hallquist, Rockford, Ill., 3-5 ckl.

SILVER SPANGLED HAMBURGS—C. H. Capron, 1 ckl.

HOUDANS—Buster Ties, 1 cock.
BUCKEYE REDS—O. L. Hibbard, Beloit, 1 cock.

COLORADO MUSCOVY DUCKS—John R. Cass, Beloit, 1 cock, 1 hen; Russell Clarke, Janesville, 3 hen, 1 ckl, 1-2 plt; E. L. Cass, Beloit, 2 cock, 2 hen.

WHITE MUSCOVY DUCKS—John R. Cass, Beloit, 1-2 cock, 1 hen; E. L. Cass, Beloit, 2 hen.

WHITE INDIAN RUNNER DUCKS—John R. Cass, 1 cock, 1 hen; E. L. Cass, 1-2 ckl.

FRIZZLES—Robert Lloyd, 1 cock, 1 hen.

AWARDS AT THE OIL CITY, PA., SHOW.

Chas. R. Baker, Secretary.

BARRED PLYMOUTH ROCKS—J. E. Brocklehurst, Mercer, 1 cock, 3 hen, 2 plt, 4 pen; Glen Moy Farm, Franklin, 2-3 cock, 1-2 hen, 5 ckl, 1-3 plt, 1-2 pen; John Neidel, Oil City, 4 cock, 4 hen; Geo. Osman, Oil City, 1 ckl; J. W. Schrecongott, New Bethlehem, 2-4 ckl; C. M. Rough, Franklin, 3 ckl; F. N. Chambers, Oil City, 4-5 plt; R. G. Cox, Bredensburg, 3 pen; Mrs. Plinchbaugh, Oil City, 5 pen.

WHITE PLYMOUTH ROCKS—John L. Reisenman, Franklin, 1 cock, 2 hen, 2 ckl, 2 plt, 1 pen; The Briar Patch, Raymilton, 2 cock, 1 hen, 1 ckl, 3 plt; Reed Beightol,

Oil City, 3 ckl; Sherman E. Payne, Oil City, 4 ckl, 1-4 plt.

SILVER PLYMOUTH ROCKS—C. H. Keniston, Oil City, 1 cock, 1 hen, 1 plt.

PARTRIDGE PLYMOUTH ROCKS—Geo. Poulson, Oil City, 1 cock, 1 hen, 1 ckl, 1 plt, 1 pen.

SILVER WYANDOTTES—F. C. Tacker, Oil City, 1-2 hen; E. A. McFadden, Oil City, 1 ckl; J. E. Brocklehurst, 1 pen.

GOLDEN WYANDOTTES—F. C. Tacker, 1 cock, 1-2-3 hen; E. M. Metz, Oil City, 1 pen.

WHITE WYANDOTTES—Clyde Jones, Hydetown, 1 cock; Harry Marwood, Jr., Franklin, 2 cock, 2-3-4 plt; H. R. Strance, Oil City, 3 cock; Crystal Springs Poultry Co., Oil City, 4 cock, 1 hen, 1-3-4 ckl; 1-5 plt, 1 pen; Thos. J. Stanton, Oil City, 2-5 ckl.

PARTRIDGE WYANDOTTES—Floyd Brahma, Oil City, 1 ckl; J. E. Brocklehurst, 1 pen; F. C. Tacker, 2 pen.

COLUMBIAN WYANDOTTES—C. A. Wrhen, Oil City, 1 cock, 2 hen, 2 ckl, 1 plt; H. R. Strance, 2 cock, 1 hen, 1 ckl, 2-3 plt.

S. C. RHODE ISLAND REDS—J. P. Laferty, Oil City, 1 cock, 1 hen, 1 ckl, 1-2 plt, 1 pen.

R. C. RHODE ISLAND REDS—J. E.

Brocklehurst, 1 cock, 1 hen, 1 plt, 1 pen; G. W. Gilbert, Oil City, 2 ckl, 2 plt.

LIGHT BRAHMAS—Edward Johnston, Reno, 1 ckl, 1-2 plt.

S. C. BROWN LEGHORNS—H. B. Seaton, Oil City, 1 cock; Mrs. L. Wenner, Oil City, 1 hen, 1 plt.

S. C. WHITE LEGHORNS—R. G. Nugent, Oil City, 1 cock, 2 hen; C. A. Wrhen, 2 cock, 1 hen, 4-5 ckl, 4 plt, 2 pen; H. B. Seaton, 3 cock, 3 hen, 3 pen; S. E. Tucker, 4-5 hen; Chas. R. Baker, Oil City, 3-5 plt; Claude D. Gelvin, Franklin, 1-2 ckl; John L. Reisenmann, 3 ckl, 1-2 plt; T. J. Wren, Oil City, 1 pen; Crystal Springs Poultry Co., 4 pen; Guy B. Dingman, Franklin, 5 pen.

S. C. BUFF LEGHORNS—C. M. Matthies, Carrollton, N. Y., 1-3 ckl, 1 plt; David Jacobs, Oil City, 1 cock, 1 hen, 2 ckl, 2 plt, 1 pen.

S. C. BLACK MINORCAS—Mrs. Jacobs, Oil City, 1 cock, 2 hen, 1 ckl, 1 plt, 2 pen; G. K. Wenner, Oil City, 1 hen, 2 plt; C. L. Burgwin, Kennerdall, 1 pen.

BLUE ANDALUSIANS—Dr. J. H. Foquet, Oil City, 1 cock, 1 hen, 1 ckl, 1 plt, 1 pen.

S. C. ANCONAS—Dr. J. H. Foquet, 1-3 cock, 2-4-5 ckl, 2-5 plt, 1 pen; F. E. Wetmore, Travesburg, N. Y., 2 cock, 3-4 hen, 1 ckl; Geo. W. Bowes, Titusville, 4 cock, 1-2 hen, 1-3 plt, 2 pen; Howard Conovers,

WINNERS at Boston

1916

Our Leghorns at Boston won second Pen; fourth Cock; third and fourth Hen. At Gloucester, Mass., won first and second Cockerels; first and

third Pullet; second and third-Cock; second and third Hen; first Pen. All shape and color ribbons; two cups and medal for best pen in show.

Our Wyandottes at Massachusetts State Meet won third Cockerel in as good a class as seen this year. At Beverly, Massachusetts, won first and third Cock; first Hen; first and second Pullet; first and third Cockerel; first Pen; two cups; all shape and color specials. Our Reds in the Essex Co. Egg Contest, (twenty pens, ten birds competing) still hold second place by a big margin.

Stock, Eggs and Chicks Ready. We have never given anything but satisfaction and don't intend doing anything else. Mating List free—send for one.

Willow Tree Poultry Farms

H. P. McKean, Jr.

**S. C. White Leghorns
White Wyandottes
Single Comb Reds**

Beverly Farms, Mass.

Q. A. Shaw McKean

CHIX DAY-OLDS DUX

Delivery Now. Any Quantity After April 1st.
Special Prices to Dealers.

Wyandottes . Rox . Reds . Leghorns
Pekin and Indian Runner Dux
and Guineas

100,000 Egg Capacity — 10,000 Breeders.
31 Years' Experience.

CUT-CLOVER

GREATEST GREEN FEED

W. R. CURTISS COMPANY

Niagara Farms

Ransomville, N. Y.

THE F. & H. BLUE PLYMOUTH ROCKS

"The Fowl for Everybody"

A FEW SELECTED BREEDERS FOR SALE
EGGS FOR HATCHING

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U. R. FISHEL,

HOPE, INDIANA

Payne Bros.' R. C. R. I. Reds

Blue Ribbon Winners at New York and Boston

On six exhibits of breeding pens at Madison Square Garden and Boston, we won five Firsts and a Third. This record has never been equaled. Eggs from our champion-ship matings \$5, \$10 and \$15 per setting. Grand utility matings \$10 per 100.

Catalog Free.

Farm Raised Stock.

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Winter Layers DAY-OLD CHICKS and HATCHING EGGS

If interested in securing large, vigorous, heavy, Winter-laying Leghorns, write for circular.

The Fuller White Leghorn Farm

East Lansing

Michigan

LEE'S COLUMBIAN Wyandottes

LEO A. LEE

5626 Wilson Avenue

CHICAGO, ILL.

The BEST by TEST in the MID-WEST EGGS : EGGS : EGGS

from my winners at such shows as Chicago, St. Louis, Memphis, San Francisco, etc. Satisfaction guaranteed. Prices reasonable. Free booklet and mating list.

"NARROW BARS" Winners at Greater Chicago Show, January, 1916

in a class of the best Barred Rocks ever shown. This is the stamp of quality.
Catalog and mating list describing the winners sent free. Write today.

GRANT STURMAN

MT. CARMEL, ILL.

RIKHOFF'S SINGLE COMB WHITE LEGHORNS

Repeat again at the quality show, Chicago Coliseum, Dec., 1915. In competition with the best in America and Canada, I won cocks 2-5, hens 2-3-4, ckl. 1-4, pul. 1-3-5, pens 1, and first pullet-bred ckl. At Indianapolis, Jan., 1916, all 1sts and 2nds. At Indiana State Fair, 1915, five firsts. First prize winners at Madison Square and many other shows. If you want to breed winners you must come to headquarters. Mating list free.

H. F. RIKHOFF, 527 Occidental Building, INDIANAPOLIS, IND.

Titusville, 5 cock, 5 hen, 3 ckl, 4 plt, 3 pen; Thos. Owens, Oil City, 4 pen.

R. C. ANCONAS—F. E. Wetmore, Travesburg, N. Y., 1 cock, 1 hen, 1 ckl, 3-4 plt; Crystal Springs Poultry Co., 5 plt; J. H. Foquet, 2 ckl, 1-2 plt.

S. C. BUFF ORPINGTONS—Mrs. L. A. Bacon, Franklin, 1-2 cock, 1-3 hen, 1-2 ckl, 1-3-5 plt, 1-2 pen; H. M. Colburn, Corry, 3 cock, 2 hen; Newell G. Smith, Oil City, 2-4 plt.

S. C. WHITE ORPINGTONS—John M. Stanton, Oil City, 1 cock, 1-3 hen, 2-3 ckl, 3 plt; H. M. Colburn, 2 cock; G. G. Nugent, Oil City, 4 hen; F. E. Nichols, Oil City, 2-5 hen, 1 ckl, 1-2 plt; John J. Kelly, Oil City, 4 ckl.

BLUE ORPINGTONS—A. R. Smart, Oil City, 1 hen, 1 ckl, 1 plt, 1 pen; F. E. Tacker, Oil City, 2 ckl.

WHITE CRESTED BLACK POLISH—H. M. Ackerman, Rock Creek, O., 2 ckl; Frank J. H. Dail, E. Brooklyn, Md., 1-2 cock, 1-2 hen, 1 ckl, 1 plt.

S. S. HAMBURGS—Floyd Doubt, Oil City, 1 ckl; Floyd B. August, Titusville, 2-3 ckl, 1-2 plt, 1 pen.

MOTTLED HOUDANS—H. A. Fox, Oil City, 1 cock, 5 hen, 3 ckl, 1 plt, 1 pen; C. Harvey, Springman, Williamsport, 2 cock, 1 hen, 1 ckl, 5 plt, 2 pen; F. E. Nichols, 3 cock, 5 ckl, 2 plt; Edgar A. Long, Clarmont, 4 cock, 3 hen; F. E. Tacker, 4 ckl, 3 pen.

WHITE FAVEROLLES—F. N. Chambers, Oil City, 1 hen, 1-2 ckl, 1-2-3 plt.

SILVER CAMPINES—Edward Johnson, Reno, 1 cock, 1-2 plt.

GOLDEN CAMPINES—Chas. R. Baker, Oil City, 1 cock, 1 hen, 1 ckl, 1 plt, 1 pen.

AWARDS AT LA CROSSE, WIS., SHOW.

Wm. H. Hoeschler, Secretary.

BARRED PLYMOUTH ROCKS—Mrs. J. F. Cotton, Chippewa Falls, Wis., 1 cock, 4 plt; Hemleben Bros., La Crosse, Wis., 1 hen, 2 ckl, 2 plt; H. F. Zernecke, La Crosse, Wis., 2-3 hen; J. N. Summerfield, Sparta, Wis., 4 hen, 4 ckl, 2 plt-mated pen; Walt P. Jagow, La Crosse, Wis., 1 ckl, 1 plt, 1 ckl-mated pen, 1 plt-mated pen; Jos. Edwards, Elroy, Wis., 3 ckl, 3 plt; C. H. Stiven, 2 plt-mated pen; L. Wallace, La Crosse, Wis., 3-4 plt-mated pen.

WHITE PLYMOUTH ROCKS—H. F. Zernecke, 1 cock, 2 hen; T. J. Schulze, La Crosse, Wis., 1-3 hen, 1-2-3 ckl, 1 plt, 1 pen; Adolph Sprehn, West Salem, Wis., 4 hen, 4 ckl, 2 plt.

PARTRIDGE PLYMOUTH ROCKS—F. J. Hellman, Sparta, Wis., 1-2 hen, 1 ckl, 1 plt; W. F. Gernetzky, Columbus, Wis., 2 plt.

COLUMBIAN PLYMOUTH ROCKS—Harry Roberts, Sparta, Wis., 1 cock, 2 hen; Wm. Hoeschler, La Crosse, Wis., 1-3-4 hen, 1-2-3 ckl, 1-2-3-4 plt.

BLACK WYANDOTTES—Ritter's Wyandotte Farm, La Crosse, Wis., 1 cock, 1-2 hen, 1-2 plt.

SILVER WYANDOTTES—Jas. H. Rogers, La Crosse, Wis., 1 cock; W. W. Powell, Genoa, Wis., 2 cock, 1-3 hen, 3-4 ckl, 2-4 plt, 1 pen; Dr. J. W. Christianson, Westby, Wis., 1 cock, 2 hen, 1-3 ckl, 1-3 plt; Dr. Z. W. Gilbert, Melrose, Wis., 4 hen.

GOLDEN WYANDOTTES—Ed. Engebretson, West Salem, Wis., 1-2-3-4 cock, 2-3 hen, 1-2-3-4 ckl, 1-2-3 plt; O. H. Doxrud, Sparta, Wis., 1 hen, 4 plt.

WHITE WYANDOTTES—H. N. Borgeson, Cokato, Minn., 1-4 cock, 1-2 hen, 1 pen; Edward Nettleman, West Salem, Wis., 2 cock, 3 hen; N. T. Gill, Reedsburg, Wis., 3 cock; Ed. Schams, La Crosse, Wis., 1-2-4 ckl, 1-2-3-4 plt, 2 pen; Fred Massey, Fairchild, Wis., 3 ckl.

BUFF WYANDOTTES—H. G. Rohde, Nekoosa, Wis., 1 cock, 3 pen; Oscar Larson, La Crosse, Wis., 3 cock, 1-3 hen, 2-4 pen; J. R. Love, Waukesha, Wis., 4 cock, 4 hen; G. E. Russell, Mauston, Wis., 2 hen, 2 plt; Herb. Hanson, La Crosse, Wis., 1-2 ckl, 1-2 plt, 1 pen; J. Affholder, La Crosse, Wis., 4 ckl.

PARTRIDGE WYANDOTTES—A. P. Anderson, Sparta, Wis., 1 cock, 1 hen, 1 ckl, 1-2 plt.

S. C. RHODE ISLAND REDS—F. H. Chamberlain, Sparta, Wis., 1 cock, 2 hen, 1 plt; O. W. Naas, La Crosse, Wis., 2 cock, 1-4 hen, 4 ckl, 4 plt, 2 pen; Geo. Hayek, La Crosse, Wis., 3 cock, 3 plt; Mrs. M. B. Lee, Hillsboro, Wis., 4 cock, 3 ckl, 3 pen; Wm. Wichern, Baraboo, Wis., 3 hen, 1-2 ckl, 2 plt, 1 pen.

R. C. RHODE ISLAND REDS—J. L. Herbst, Sparta, Wis., 1-2 cock; Mrs. J. E. Ellis, 3-4 cock, 1-2 hen, 2-3-4 ckl, 2-3-4 plt, 1 pen; Clyde Davis, Mukwonago, Wis., 1 ckl, 1 plt.

LIGHT BRAHMAS—W. G. Shuman, La Crosse, Wis., 1 cock, 1-2-3 hen; John Blanchard, Columbus, Wis., 1 ckl, 1 plt.

R. C. RHODE ISLAND WHITES—H. W. Shepard, Columbus, Wis., 1 ckl, 1-2 plt.

BUFF COCHINS—Frank Papenfuss, La Crosse, Wis., 1-2 ckl, 1-2 plt.

S. C. BROWN LEGHORNS—C. F. Lang, La Crosse, Wis., 1 cock, 1 hen, 1 ckl, 1 plt.

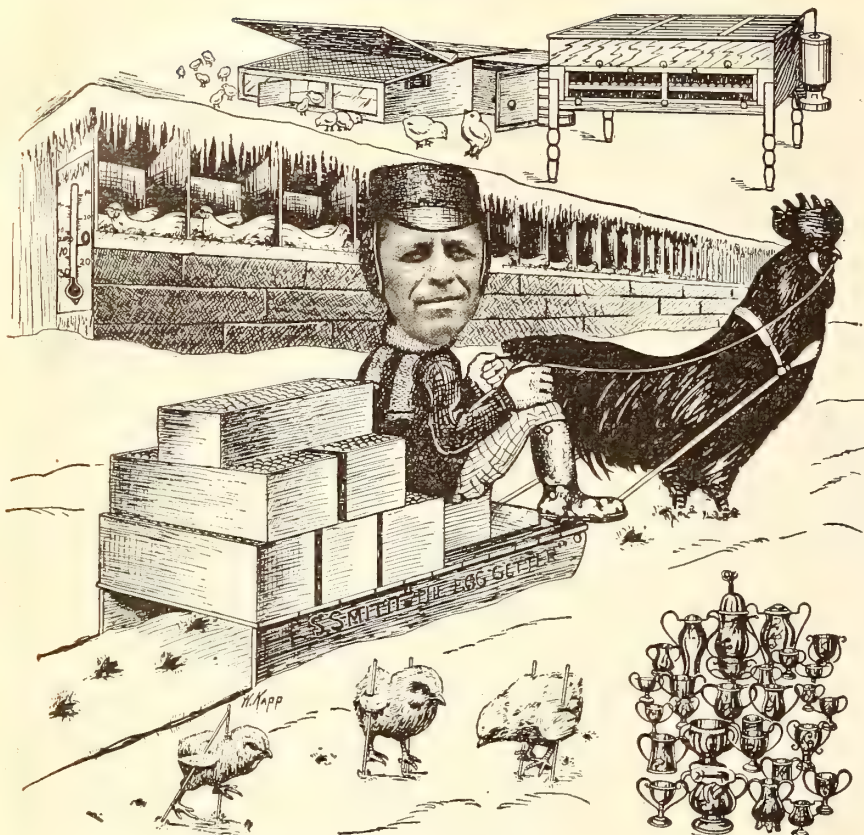
R. C. BROWN LEGHORNS—Al. R. Rice, Waverly, Ia., 1 hen, 1 ckl, 1 plt; Math Bedessem, La Crosse, Wis., 2-3-4 plt.

S. C. WHITE LEGHORNS—Wm. Hoeschler, La Crosse, Wis., 1 cock, 3 ckl; C. O. Carlson, Melrose, Wis., 2-3 cock, 3-4 hen.



proposition to dealers or agents.

Manufacturers of Blue Hen Brooders (Hot-air and Hot-water), Blue Hen Round Tray Incubator and Blue Hen Round Mammoth Incubators. Special proposition to dealers or agents.



The above is a cartoon of F. S. Smith, Box C and D, Hamilton, Ohio, the world's largest Single Comb Buff Leghorn breeder. Mr. Smith has hatched out thousands of chicks in December, January and February for years, and by doing this year after year, he has developed a wonderful winter strain layer. His birds are winners at 15 of the largest shows, including Chicago, Hagerstown and the World's Fair at San Francisco in 1915. He writes us that he has the finest flock of birds this year he ever raised and he has bred the Buffs alone for 17 years.

S. C. BUFF ORPINGTONS—W. H. McCrackin, Alexandria, 1 cock, 1-2-3-4-5 hen, 1 ckl, 1 pen.

S. C. BLACK ORPINGTONS—Mrs. J. P. Senseney, Alexandria, 1-3 cock, 2-5 hen, 3 pen; Capons 1-2, display pen 1; L. F. Lalande, New Iberia, 2-4-5 cock, 1-3-4 hen, 1-2-3-4-5 ckl, 1-2-3-4-5 plt, 1-2 pen.

BLACK GAMES—R. A. Neff, Alexandria, 1 cock, 1-2-3-4-5 hen, 1 pen.

DARK CORNISH—Mrs. W. L. Dupuy, New Iberia, 1-2 cock, 1-2-3-5 hen; 2 ckl, 1-2-3 plt, 1-2 pen; Jack F. Toups, Thibodaux, 4 cock, 4 hen, 1-4 ckl, 4-5 plt, 3-4 pen; Geo. Broussard, Opelousas, 3 cock, 3 ckl, 5 pen.

R. C. BLACK BANTAMS—D. B. Martinez, New Orleans, 1-2 ckl, 1-2 hen, 1-2 plt, 1 pen.

BLACK COCHIN BANTAMS—F. E. Gifford, Port Arthur, Texas, 1 cock, 1-2-3-4 hen, 1 pen.

PEKIN DUCKS—New Hope Farm, Opelousas, 1 old drake, 1 old duck 1 yng drake, 1 yng duck.

WHITE INDIAN RUNNERS—Snow White Poultry Farm, Alexandria, 1 old drake, 1-2-3-4 old duck, 1 pen.

TOULOUSE GEESE—Snow White Poultry Farm, 1 pair.

AWARDS AT HAMPTON, IOWA, SHOW.

H. W. Hardy, Secretary.

BARRED PLYMOUTH ROCKS—J. E. Weiss, Greene, Ia., 1-2-3 cock, 1-2-3 hen, 3 ckl, 1-3-4 plt, 1-2 pen; L. E. Wilson, Eagle Grove, Ia., 1-4 ckl, 2 plt.

PARTRIDGE PLYMOUTH ROCKS—J. Miller, Chapin, Ia., 1 ckl, 1-2 plt.

WHITE PLYMOUTH ROCKS—H. W. Hardy, Hampton, Ia., 1-2 cock, 1-2 hen, 1-2-3-4 plt, 1 pen.

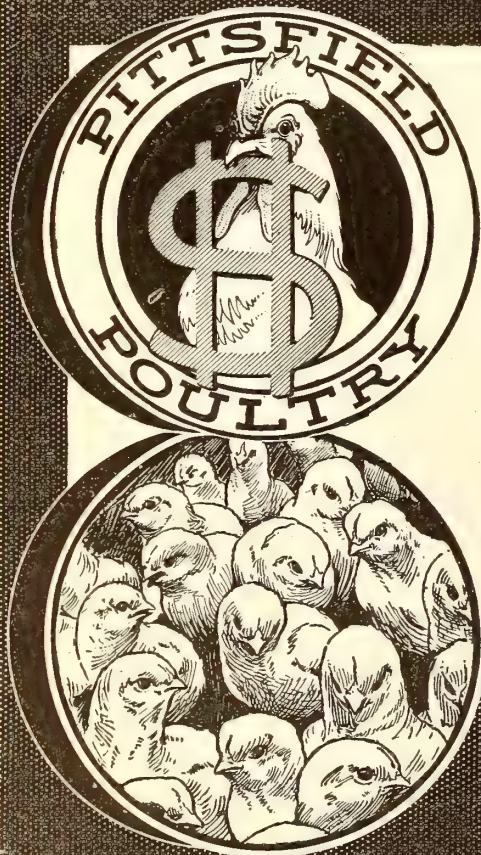
BUFF PLYMOUTH ROCKS—C. Chadima, Hampton, Ia., 1 cock, 1-2 hen, 1 ckl, 1-2-3-4 plt, 1 pen.

S. C. WHITE ORPINGTONS—J. H. Hartshorn, Traer, Ia., 1-2 hen, 1 ckl, 1-3 plt, 1 pen; J. B. Wertman, Guckeen, Minn., 3-4 hen, 2-3 ckl, 2-4 plt, 2 pen.

BUFF ORPINGTONS—L. L. Conner, Hampton, Ia., 1 cock, 1-2 hen, 2 pen; H. W. McCauley, Humbolt, Ia., 1-3 ckl; F. E. Heileman, Ft. Dodge, Ia., 2-4 ckl, 1-2-3 plt, 1 pen.

R. C. RHODE ISLAND REDS—J. M. Holt, Marshalltown, Ia., 1 cock, 1-3 hen, 1-3 ckl, 2 plt, 1 pen; Roy D. Brown, Sheffield, 1 cock, 1-2 hen, 1 ckl, 1-2-3-4 plt, 1 pen.

Read "A Revolution in Egg Production" on page 449.



The Real Money-Makers

The dollar mark in the Pittsfield Poultry trade mark is more than a decoration. It is our guarantee to you that Pittsfield Day-Old Chicks are bred to be the biggest producers—to bring you in the most profit on your investment. You won't find "boarders" in Pittsfield Poultry. Try some—and if they don't "make good," we'll never ask you to buy another one. Guaranteed to arrive in perfect condition.

Look at these Low Prices on Day-Old Chicks

Barred Rocks, White Rocks and S. C. R. I. Reds at \$18 for 100, \$10 for 50 and \$5 for 25. S. C. White Leghorns at \$15 for 100, \$8.50 for 50 and \$4.25 for 25. White Wyandottes at \$22 for 100, \$12 for 50 and \$6 for 25.

ORDER NOW—SEND NO MONEY

Better reserve yours now—they're going fast. Tell us how many you want—which breed—when you want them shipped. We'll hold them for you. Send for descriptive folder. It's full of valuable information.

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190 Main Street

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PITTSFIELD DAY-OLD CHICKS



The first Red Sussex cock and champion male at the Madison Square Garden Show, 1915, is a bird well worth the honors. His splendid type and color made him an easy winner in strong competition. He was bred and is owned by the Red Sussex Farms of Marysville, Mich.—L. S.



White Orpington cockerel heading first prize pen at the Chicago Coliseum Show. The unretouched picture above shows an unusual amount of all around Orpington quality. Woolery Farms at Bloomington, Ind., are the owners and breeders of this fine bird.—L. A. S.

field, Ia., 2 cock, 2 hen, 1-4 plt, 2-3 pen; T. Oxenfield, Marshalltown, Ia., 2-4 ckl, 3 plt; Earl Jennings, Hampton, Ia., 3 cock. S. C. RHODE ISLAND REDS—James Hawke, Jr., Sheffield, Ia., 1-2 cock, 1-2 hen, 2 plt, 2 pen; J. A. Holmes, Steamboat Rock, Ia., 3-4 cock, 3-4 hen; E. H. Zuener, Ft. Dodge, Ia., 1-3 ckl, 1-3 plt, 1 pen.

WHITE WYANDOTTES—Donald B. Roberts, Hampton, Ia., 1 cock, 2 pen; Glen A. Cobb, Independence, Ia., 2 cock, 1-2-3-4 hen, 1-2-3 plt, 1 pen; Bert Rogers, Hampton, Ia., 1-2 ckl, 4 plt, 3 pen.

PARTRIDGE WYANDOTTES—L. H. Carter, 1 cock, 1-2-3-4 hen, 1 pen; S. J. Coffin & Son, Waverly, Ia., 1-2-3-4 ckl; F. C. Siegfried, Rockwell, Ia., 1-2-3 plt; W. G. Stonebraker, Hampton, Ia., 4 plt.

BUFF WYANDOTTES—L. J. Gletty, Humboldt, Ia., 1 cock, 1-2-3-4 plt, 1 pen; W. J. Coffin & Son, 1-2-3 ckl.

GOLDEN LACED WYANDOTTES—Bare Poultry Co., Hampton, Ia., 1-2 ckl, 1-2 plt.

R. C. BROWN LEGHORNS—G. A. Linda, Hampton, Ia., 1 cock, 1-2-3-4 hen, 1-2-3-4 plt, 1 pen; Wm. Sailor, Ackley, Ia., 2 cock, 1-2-4 ckl, 3 pen; W. F. Sampson, Hampton, Ia., 3 ckl, 2 pen.

S. C. WHITE LEGHORNS—Bare Poultry Co., 1-2 ckl.

S. C. BUFF LEGHORNS—Bare Poultry Co., 1-2 ckl.

GOLDEN SEBRIGHT BANTAMS—Bare Poultry Co., 1 hen, 2 ckl, 1-2-3 plt; John E. Moehrl, Marshalltown, Ia., 1 ckl, 4 plt.

BUFF COCHIN BANTAMS—Bare Poultry Co., 1 hen, 2 ckl, 2 plt; John E. Moehrl, 2 hen, 1 ckl, 1-3 plt.

BLACK COCHIN BANTAMS—John E. Moehrl, 1-2 hen, 1 ckl; Bare Poultry Co., 3 hen, 2 ckl, 1 plt.

SILVER SPANGLED HAMBURG—John Blakenship, Hampton, Ia., 1 cock, 3-4 hen, 1 plt, tie for pen; Charles Penoyar, Dakotah City, Ia., 1-2 hen, 1 ckl, 2 plt, tie for pen.

SILVER GRAY DORKINGS—F. W. Kramer, Allison, Ia., 1-2 hen, 1 ckl, 1 plt.

SILVER CAMPINES—Bare Poultry Co., 1-2-3 ckl, 1-2 plt.

S. C. ANCONAS—H. D. Gokey, Hampton, Ia., 1-2-3 ckl, 1-2-3-4 plt, 1 pen.

WHITE CRESTED BLACK POLISH—H. D. Gokey, Hampton, Ia., 1 cock, 1-2-3-4 hen, 1 ckl, 1 pen.

GRAY TOULOUSE GESE—J. E. Wiesse, Greene, Ia., 1 old gander, 1 old goose.

WHITE EMBDEN GESE—Bare Poultry Co., 1 old gander, 1 old goose.

WHITE CHINA GESE—Bare Poultry Co., 1 old gander, 1 old goose.

BUFF ORPINGTON DUCKS—August

Klepple & Son, Eldora, Ia., 1 old drake, 1 old duck, 1 yng drake, 1 yng duck.

WHITE INDIAN RUNNER DUCKS—Bare Poultry Co., 1 old drake, 1 old duck, 1-2 yng drake, 1-2 yng duck.

WHITE MUSCOVEY DUCKS—Bare Poultry Co., 1 old drake, 1 old duck.

AWARDS AT CENTERVILLE, IOWA, SHOW.

M. E. Terry, Secretary.

BARRED PLYMOUTH ROCKS—Mr. and Mrs. C. E. Brokaw, Mystic, 1 cock, 1-5 hen, 3-5 ckl, 1 pen; Mrs. C. N. Davis, Mystic, 3 cock, 3-4 hen, 4 pen; Mrs. F. D. Brewer, Millerton, 2 hen, 4 plt; E. Fraker, Downing, 2 ckl, 2 plt, 3 pen; N. H. Mather, 4 ckl; John Bruhn, What Cheer, 1-3 plt, 2 pen; W. M. Lynch, Moulton, 5 plt.

BUFF PLYMOUTH ROCKS—E. E. Black, Corydon, 1 cock, 1-2-3 hen, 2-4 ckl, 1-2-3-4 plt, 1-2 pen; Mr. and Mrs. C. E. Brokaw, 5 hen, 1 ckl, 5 plt, 3 pen; Henning Carlson, 3-5 ckl.

WHITE PLYMOUTH ROCKS—C. W. Kindig, 1-2-3 cock, 2-3-5 hen, 2-3-4 ckl, 1-3-4-5 plt, 1-3-4 pen; Emma Steffy, 1-4 hen, 2 ckl, 2 plt, 2 pen.

Tom Barron English White Leghorns 282 Eggs a Year

Puritan R. I. Whites

The heavy laying strain with show room records.

RIGHT NOW is the time to order your breeders and eggs for hatching.

have produced the goods for others and will do the same for you. Baby Chicks For Sale. Send for free mating list just out.

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McLean's Single Comb Rhode Island Reds

Nonpareil Strain. Grand Palace: 1st hen and shape special, also 5th pen. At Springfield: winner of 1st display cup. At the great Waterbury-Hartford show: Winner of Rhode Island Red state cup of America. MATING LIST NOW READY.

S. G. McLEAN, SOUTH GLASTONBURY, CONN.

PARTRIDGE PLYMOUTH ROCKS—H. O. Wilkes, 1 cock, 1-2-4 hen; Rev. H. C. Duckett, Bloomfield, 3 hen, 1-4 ckl, 2 plt; W. H. Lane, 2-4-5 hen, 1-3-4 plt.

WHITE WYANDOTTES—Reed & Reed, Breckenridge, Mo., 1 cock, 1-4 hen, 1-2-3 ckl, 2-4-5 plt, 1 pen; Harry J. Blair, Van Wert, 2 cock, 1-3 plt, 2 pen; Mrs. A. L. Stuckey, Udell, 3 cock, 2 hen; S. A. Kelly, Livonia, Mo., 3 hen, 4 ckl; M. E. Terry, 5 hen.

S. C. R. I. REDS—Frank Chalupa, Pleasant, Plain, Ia., 1 ckl, 4 ckl, 5 ckl; B. F. Benson, Winfield, Ia., 2 ckl; Chas. Orman, Ottumwa, Ia., 3 ckl; W. B. Russell, Numa, Ia., 4 ckl, 3 pen; Frank Chalupa, silver cup for best pen of R. I. Reds in show.

R. C. RHODE ISLAND REDS—H. O. Wilkes, 2 cock, 2-3 hen, 4-5 ckl; S. Martin, Batavia, 1 cock, 1 hen, 1-2-3 ckl, 1-2-3-5 plt, 1 pen; W. C. Lawton, Mystic, 4 cock; John L. Jones, Queen City, 5 cock; Mrs. A. L. Stuckey, Udell, 4-5 hen; Bradley Poultry Farm, Mystic, 4 ckl.

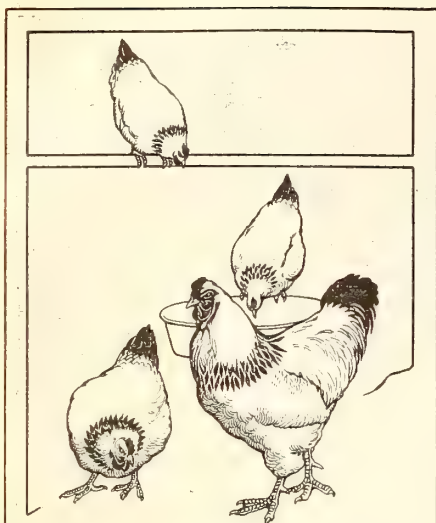
LIGHT BRAHMAS—N. E. Murdy, Moravia, 1-2-4 hen, 1-2-3-4 ckl, 1 pen.

S. C. WHITE LEGHORNS—John L. Sexton, Albion, 1 cock, 1-2-3 hen, 1 ckl, 3 plt, 2 pen; Mrs. H. W. Lemberger, Burlington, 2 cock, 2-3 ckl, 1-2-4 plt, 1 pen; K. I. Miller, Lancaster, Mo., 4 hen, 4 ckl, 5 plt.

Choice lot of cockerels, cocks, hens, pullets, pens and trios. Baby chicks and hatching eggs at prices that are right. Satisfaction guaranteed. Stamp brings booklet. Write your wants.

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DIAMOND CORN GLUTEN MEAL

VEGETABLE PROTEIN is the best form of protein for egg production and for keeping up the condition of the fowls and producing a good quality of eggs. Diamond Corn Gluten Meal furnishes a highly economical and digestible protein very much more desirable than animal protein.

Diamond Corn Gluten Meal is the lowest priced corn protein on the market, being guaranteed 40 per cent, and should be fed in a mash with other feeds of lower protein content—formulas for this purpose including Gluten Meal furnished on request.

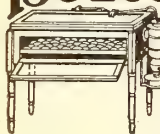
If your dealer does not carry Diamond Corn Gluten Meal write us and we will advise you where it can be secured.

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INCUBATOR
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A wonderful money-maker at a bargain price. Big hatches of healthy chicks.

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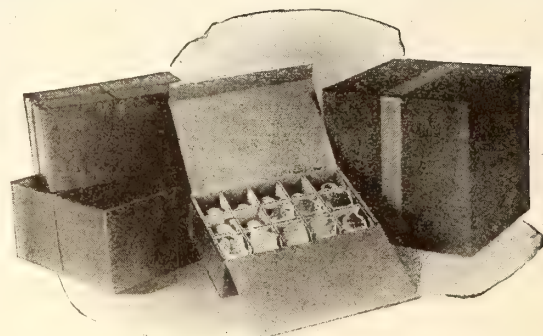


Royal English Sussex

"The Favorite Family Fowl"
Stock and eggs for sale; moderate prices. Send for mating list.

PINEHURST FARM.
Box B. Oberlin, Ohio

3 pen; J. L. Stark, 3 cock, 5 hen, 5 pen; Edward Moon, Mystic, 5 ckl.
R. C. BLACK MINORCAS—R. S. Wynes, Albia, 4 hen.
SILVER LACED WYANDOTTES—M. E. Followwill, Numa, 1 ckl, 1-2-3 plt.
S. C. WHITE ORPINGTONS—R. B. Murphy, Shenandoah, 1 cock, 1-2-3-5 plt, 4 hen, 1 pen; J. H. Bickert, Albia, 2 cock, 4 plt; Louis Johnson, City, 5 cock, 3 ckl; R. S. Wynes, 3 cock, 1-2-3 hen, 2 pen; Mrs. F. D. Brewer, 5 hen.
S. C. BLACK ORPINGTONS—Frank Mitchell, City, 5 hen, 1-2-3 ckl, 1-2-3-4 plt, 1 pen; R. S. Wynes, 2 cock, 1-2-3-4 hen, 2 pen.
S. C. BUFF ORPINGTONS—D. B. Coop, Perlee, 1-2 ckl, 1-2-3-4-5 plt, 1 pen.
RED SUSSEX—M. E. Terry, 2 cock, 3 ckl, 4-5 plt, 4 pen.
SPECKLED SUSSEX—Dr. H. A. Dillon, City, 5 ckl, 3-5 plt.
SILVER CAMPINES—H. O. Wilkes, 1 ckl, 1-2-3-4-5 plt, 1 pen.



A safe shipping box for eggs by parcel post and express is a boon to the poultryman. Such a box illustrated above is offered by The Hinde & Dauch Paper Company of Sandusky, Ohio.

BLACK LANGSHANS—Bert Randall, Mt. Zion, 1 cock, 1-2 hen, 1 ckl, 1-3 plt, 1 pen; K. I. Miller, Lancaster, 3-4-5 hen, 2 ckl, 2-4-5 plt, 2 pen.
PARTRIDGE WYANDOTTES—S. A. Smith, Albia, 1 cock, 1 hen, 1 ckl, 1 plt.
DARK CORNISH—Greenall & Young, Mystic, 1-2 hen, 1 ckl, 2 plt.
WHITE CORNISH—Greenall & Young, 1-3 hen, 5 ckl, 3-4-5 plt, 3 pen.
SILVER GRAY DORKINGS—Gray & Bohy, Hocking, 1 cock, 5 ckl, 1-5 plt.
MOTTLED ANCONAS—Dr. Ash, City, 1 ckl, 1-2-5 plt.
SILVER SPANGLED HAMBURG—S. A. Kelly, Livonia, 1 cock, 1-3-5 hen.
BUFF COCHIN BANTAMS—J. A. Abbot, 1 ckl, 1 plt; Louis Johnson, 2 ckl, 2 plt.
WHITE RUNNER DUCKS—Mrs. F. D. Brewer, 1 drake, 1-2-3 hen.

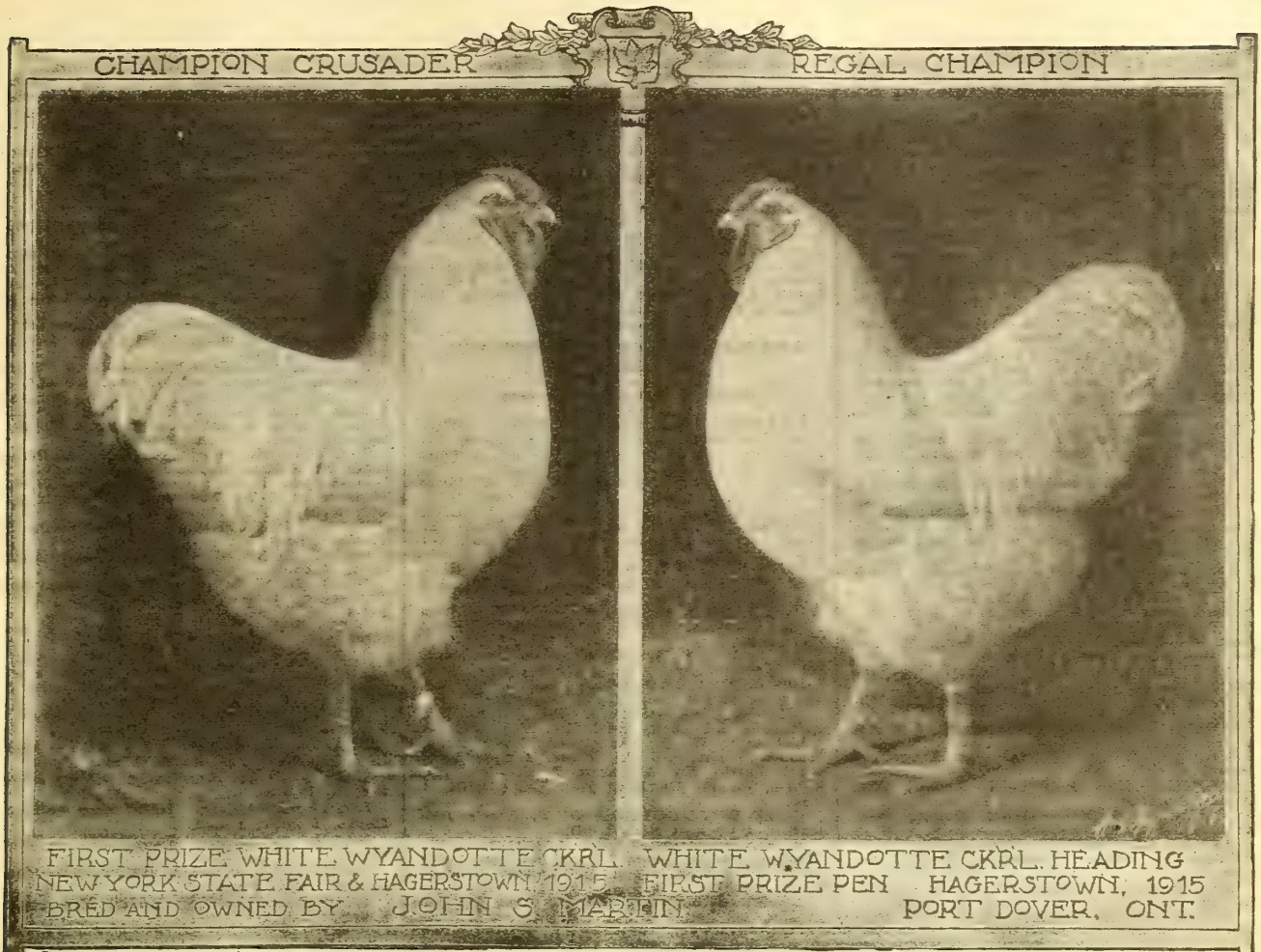
AWARDS AT FREMONT, NEB. SHOW.

J. W. Cattern, Secretary.

BARRED ROCKS—G. W. Feurestien, Fremont, 1 cock, 2-3 hen, 1-2-3 ckl, 3-5 plt, 1 pen, 1 ckl-bred plt, 2 ckl-bred pen; O. R. Hill, North Loup, 2 cock, 1 hen, 4 ckl, 1-2 plt, 1 ckl-bred hen, 2 ckl-bred plt, 1 ckl-bred pen, 1 plt-bred pen; Archdale Farm, Fremont, 3 cock, 1 plt-bred ckl; Joe Green, Fremont, 4-5 hen, 5 ckl; E. A. Masterson, Fremont, 4 plt, 2 plt-bred ckl; C. W. Mulloy, Fremont, 3 plt-bred ckl; J. J. Funk, Fremont, 2 plt-bred pen.
WHITE ROCKS—Williams Poultry Farm, Cedar Bluffs, 1 cock, 2-3 plt, 3 ckl; Harvey West, Unadilla, 2 cock; Arthur Nelson, Genoa, 1-5 plt, 2-5 ckl, 1 pen; Henry Barkmeier, Exeter, 4 plt; J. M. Lampert, Wahoo, 1-4 ckl.
BUFF ROCKS—Benj. J. Owens, Blair, all awards.
PARTRIDGE ROCKS—G. W. Nicholas, DeWitt, 1 cock, 2-3 hen; Fred S. Davis, Fremont, 1 hen, 4 ckl; Austin Boyer, DeWitt, 1-2-3 ckl.
WHITE WYANDOTTES—Mrs. H. G. Hanson, Fremont, 1 cock, 2-3-5 hen, 1-3 ckl, 1-4-5 plt, 1-2 pen; J. C. Anderson, Stromsburg, 3 cock, 2 ckl, 3 plt; Carl Ehlers, Greta, 4 cock, 4 hen; Richard Peters, Greta, 5 cock, 4 pen; I. Franklin, Monroe, 1 hen, 4 ckl; Robert Frahm, Snyder, 5 ckl, 3 pen; Geo. Sawtelle, Fremont, 5 pen.
SILVER WYANDOTTES—Mrs. C. L. Shidner, Stromsburg, 1 ckl, 2-3 hen, 3 plt; W. L. Houck, Fremont, 1 cock, 4 hen, 2-4-5 plt.
S. C. RHODE ISLAND REDS—Otto Timm, Bennington, 2 cock, 2 hen, 5 ckl; J. A. Eastwood, Waverly, 3 cock, 3 hen, 2 pen; Carruth Bros., Ashland, 4 hen; R. S. Hart, Lyons, 1 cock; Island View Farm, Fremont, 1-2-3 plt; Philip Harper, David City, 4-5 plt, 1-4 ckl; R. A. Harrison, David City, 2-3 ckl.
R. C. RHODE ISLAND REDS—Island View Farm, 1 cock, 1 hen, 1 ckl, 1 plt, 1 pen; Mrs. Gunderlack, 2 cock, 4 hen; J. J.

Sweeney, Lindsay, 3 cock; P. S. Goldsmith, Utica, 2 hen, 2-4 ckl, 3-4 plt; Otto Langhorst, Nickerson, 5 ckl, 2-5 plt, 1 pen.
LIGHT BRAHMAS—John Frost, Fremont, all awards.
DARK BRAHMAS—C. W. Mulloy, Fremont, all awards.
SPANGLED WYANDOTTES—P. L. Bayley, York, all awards.
GOLDEN WYANDOTTES—Mrs. F. L. Hayek, Linwood, all awards.
BUFF WYANDOTTES—F. C. Koci, Clarkson, all awards.
PARTRIDGE WYANDOTTES—Mrs. Mary Cain, Fremont, all awards.
PARTRIDGE COCHINS—Joe Montfort, Fremont, all awards.
BLACK LANGSHANS—Wickland Bros., Dalley, 1-2 ckl, 1 plt; Dick Garner, Walthill, 3 ckl.
S. C. BROWN LEGHORNS—Mrs. G. W. Shriver, Fremont, all awards.
R. C. BROWN LEGHORNS—Mrs. F. L. Hayek, all awards.

S. C. WHITE LEGHORNS—J. Frazier, Lincoln, 1 cock, 1-2-3 hen, 1-2 ckl, 1-2-3 plt, 1 pen; C. C. Johnson, Fremont, 2 cock, 4-5 hen, 3-4 ckl, 1-4 plt, 2 pen; Ivar Johnson, Fremont, 5 ckl.
R. C. WHITE LEGHORNS—Aug. Barkmeier, Exeter, all awards.
S. C. BUFF LEGHORNS—Wm. Gerlack, Haverlock, all awards.
S. C. BLACK MINORCAS—Harry Knudsen, Benson, 1 cock, 3 hen, 4 ckl, 5 plt; Mrs. C. L. Shidner, Stromsburg, 2-4 cock, 2 hen; H. C. Orr, College View, 3 cock, 1 plt; J. F. Porter, Fremont, 5 cock, 1-4 hen, 2-3 ckl, 3 plt; L. A. Rose, Sioux City, Ia., 1-5 ckl, 2-4 plt.
BLUE ANDALUSIANS—C. F. Bordner, Geneva, all awards.
ANCONAS—J. C. Shirley, North Loup, all awards.
WHITE ORPINGTONS—Harry Bordner, Geneva, 1 cock; Everett Champrey, Fremont, 2 cock, 3-4 plt; C. M. Mathenson, Walthill, 3 cock, 2-5 hen, 2-4-5 plt, 1 pen; Dr. W. E. Crane, Norfolk, 4 ckl, 1 plt; C. M. Havefall, Thayer, 1 hen, 3 ckl; C. C. Johnson, Fremont, 5 cock, 4 hen, 3 pen; Geo. Wilkins, 2 pen; Callie Tuttle, Fremont, 5 ckl; L. Cornett, Fremont, 1 ckl.
BUFF ORPINGTONS—John Swinner, Blair, 2 cock, 1 hen, 1-2-3 ckl, 1-2 plt, 1 pen; John Cherney, North Bend, 2-5 hen, 4-5 ckl; Geo. Hahn, Octavia, 1 cock, 3 hen; Lloyd Kingsolver, Gresham, 4 hen; Frank Benes, Larkson, 2 pen; Geo. Cheney, Fremont, 3 cock, 5 plt; J. E. Marsh, Hooper, 3-4 plt.
BLACK ORPINGTONS—John Cherney, all awards.
RED SUSSEX—C. W. Greeno, Valparaiso, all awards.
S. S. HAMBURG—Antocrat Farm, Fremont, 3-4 hen, 1-2 ckl, 1-2-3 plt, 1 pen; John Johnson, 1-2 hen, 1 cock.
SILVER CAMPINES—Archdale Farm, Fremont, 3 cock, 1-2 hen, 1-2-4 ckl, 1-2-4 plt; R. E. Meese, Ericson, 3 ckl; Geo. Cheney, Fremont, 5 ckl; H. S. Green, Sioux City, Ia., 4 cock, 3-4 hen, 5 plt; R. A. Harrison, David City, 3 plt.
GOLDEN CRESTED POLISH—Carl Sommers, Fremont, all awards.
GOLDEN SEBRIGHT BANTAMS—Howard Feemster, York, all awards.
BUFF COCHIN BANTAMS—Howard Feemster, 1-2-4 hen, 3-4-5 plt, 3-4 ckl; John Skinner, Blair, 2 cock, 3 hen, 2 ckl, 1-2 plt, 1 pen; Benj. Owens, Blair, 5 hen.
PARTRIDGE COCHIN BANTAMS—Howard Feemster, all awards.
BLACK COCHIN BANTAMS—Howard Feemster, all awards.
WHITE COCHIN BANTAMS—Mrs. Oscar Olsen, Fremont, all awards.
B. JAPANESE BANTAMS—Benj. Owens, Blair, all awards.
GRAY CALL, WILD MALLARD, WHITE AND FAWN INDIAN RUNNER DUCKS—Earl Whitcomb, Fremont, all awards.
WHITE INDIAN RUNNER—Dan Wilson, Monroe, 1 pen; Earl Whitcomb, 1 yng duck, 1 old drake.



AWARDS AT DES MOINES, IOWA, SHOW.

C. P. Headington, Secretary.

S. C. RHODE ISLAND REDS—W. G. Price, 1092 42d St., Des Moines, Ia., 1 cock, 2 yng pen; Dr. W. E. Lawhead, Burlington, Ia., 2 cock; O. L. Boehm, Fort Dodge, Ia., 3 cock, 3 hen, 5 plt, 3 yng pen, 1 old pen; H. L. Hemmerling, Waterloo, Ia., 4-5 cock, 1 hen, 2 old pen; John T. Greenwood, Geneseo, Ill., 2 hen, 1-4-5 ckl, 1-3 plt, 3 old pen; A. Haskins & Son, Jesup, Ia., 4 hen, 2 ckl, 2-4 plt, 4 yng pen; J. M. Brown, St. Charles, Ia., 5 hen; L. G. Johnson, Steamboat Rock, Ia., 3 ckl; J. C. Sandmier, Waukee, Ia., 1 yng pen; A. & J. W. Boyd, Des Moines, Ia., 5 yng pen, 4 old pen; Dana Wagner, 1552 Fifth St., Des Moines, Ia., 5 old pen.

R. C. RHODE ISLAND REDS—Scranton Red Farms, Scranton, Ia., 1-2-4 cock, 1-2 hen, 1-2-3 ckl, 1-3 plt, 1 yng pen, 2 old pen; E. L. Doggett, Ames, Ia., 3 cock, 4-5 ckl; Karl Koenigsberger, 1321 Penn. Ave., Des Moines, Ia., 5 cock; Mrs. F. C. Krueger, Charles City, Ia., 3 hen, 1 old pen; E. F. Heisel, Jefferson, Ia., 4 hen, 2-4 plt; F. W. Mason, 842 E. 2d St., Des Moines, Ia., 5 plt; Mrs. J. P. Olesen, Humboldt, Ia., 2 yng pen.

BARRED PLYMOUTH ROCKS, COCKER-EL-BRED—S. N. Buss, Madrid, Ia., 1-3 cock; Dr. J. H. Dwight, Des Moines, Ia., 2 cock, Mrs. Wm. Stoll, Le Mars, 4-5 cock, 1 ckl; H. V. Hethershaw, R. 6 Des Moines, Ia., 1 hen; Albert Mather, Des Moines, Ia., 2 hen, 4 ckl, 4 plt, 4 pen; J. F. Harsh, New Virginia, Ia., 2 ckl, 5 pen; Mrs. H. J. Branson, West Branch, Ia., 3 ckl; Peter Sievers, West Side, Ia., 5 ckl; Dr. L. D. Carpenter, Indianola, Ia., 1-2-3-5 plt, 1 pen; Wm. McMichael, Des Moines, Ia., 2 pen; Carl Wiggins, Prairie City, Ia., 3 pen.

BARRED PLYMOUTH ROCKS, PULLET-BRED—H. V. Hethershaw, 1 cock, 5 hen; S. N. Buss, Madrid, 2 cock, 2 hen; L. J. Schuster, Des Moines, 3-5 cock, 1-2-5 ckl; Wm. Winneke, Carroll, 4 cock, 3 ckl, 1

hen; John Peterson, Randall, 3-4 hen, 1-3-4 plt, 1 pen; J. F. Harsh 4 ckl, 2 plt, 2 pen; Lee Martin, Eagle Grove, 5 plt.

BUFF PLYMOUTH ROCKS—J. E. Hime, Indianola, 1 cock, 1-2 hen; Wm. J. Lockhart, Des Moines, 2-3 cock, 1-2 ckl; Peter Hove, Stanhope, 1 plt, 1 pen; Howard Hovde, Des Moines, 2 plt.

WHITE PLYMOUTH ROCKS—Frank J. Hassel, Red Oak, 1 cock, 1 hen, 2 ckl, 1 plt, 1 pen; Mrs. B. A. Mansfield, Des Moines, 2 cock, 2 hen, 5 plt; Mrs. A. E. Lusk, Des Moines, 3-5 hen, 2-4 plt, 3-5 ckl; E. H. Mitchell, Des Moines, 4 hen, 1 ckl, 3 plt; Gail Sutherland, Madrid, 4 ckl; Mrs. Wm. Isminger, Altoona, 2 pen; Chas. Peterson, Madrid, 3 pen.

PARTRIDGE PLYMOUTH ROCKS—L. J. Schuster, Des Moines, 1 cock, 2 hen, 2 plt; L. T. Calhoun, Indianola, 1-3 hen; Taylor Bros., Cambridge, 1-3 plt.

WHITE WYANDOTTES—J. M. Knowles, Fairfield, 1 cock, 5 hen; Mr. and Mrs. Frank Harris, Des Moines, 2 cock, 1-2 hen, 1-5 ckl, 1-2 plt; Austin McKibben, Lormore, 3 cock, 3 hen; C. D. Porter, Altoona, 4 cock, 4 hen; Mrs. N. B. Ashby, Des Moines, 2 ckl, 5 plt, 1 pen; John R. Glidden, Ames, 3-4 ckl, 3-4 plt; C. H. Frames, Villisca, 2 pen.

SILVER WYANDOTTES—John L. Wheeler, Villisca, 1 cock, 1 hen, 1-2-3 plt.

GOLDEN LACED WYANDOTTES—Earl Hays, Earlham, 1 hen, 1-2 plt.

PARTRIDGE WYANDOTTES—J. S. Coon, Des Moines, 1 cock, 3 hen, 4 plt; Mrs. J. P. McLaughlin, Des Moines, 1-2 hen; Russel Danley, Prairie City, 1-2 ckl, 1 plt; C. G. Winset, Des Moines, 2-3 plt.

BUFF WYANDOTTES—H. F. Wood, Des Moines, 1 plt.

S. C. WHITE ORPINGTONS—Mrs. Louis Montague, Ottumwa, 1 cock, 5 hen, 2-4 ckl, 1-2-3-5 plt; A. C. Andrews, Miller, Neb., 2 cock, 2 hen; Louis T. Eness, Gilbert, 3-4-5 cock, 1-3-4 hen, 5 ckl, 1 pen; W. A. McCrory, Dawson, 1 ckl; Harvey Johnson, Logan, 3 ckl, 4 plt, 2 pen.

S. C. BLACK ORPINGTONS—T. A. Al-

len, R. 2, Des Moines, 1 cock, 1 hen, 2 ckl, 3 plt, 1 pen; O. M. Brown, Slater, 2 cock, 2-3 hen, 1 ckl 1-2 plt.

S. C. BLUE ORPINGTONS—Dr. C. R. Huber, Logan, 1 ckl.

S. C. BUFF ORPINGTONS—Frank Cameron, Ames, 1 cock, 4 plt; Austin Curtis, Bayard, 2 cock; J. S. Wright, Rockwell City, 3-4 cock, 3 yng pen; T. W. Rogers, Lamont, 5 cock, 1-2-3 hen, 1-2-4 ckl, 1-2-3 plt, 1 yng pen; Snyder Bros., Letts, 4 hen; August Peterson, Churdan, 5 hen; W. H. Topp, Westgate, 3 ckl; Ed. T. Kooser, Ames, 5 ckl, 5 plt, 2 yng pen.

S. C. WHITE LEGHORNS—John Sexton, Albia, 1 cock, 1 hen, 1 plt; Hyperion White Leghorn Farm, Des Moines, 2 cock, 2-3-4 hen, 1-2-3-4 ckl, 4-5 plt, 1-2 pen; Mrs. W. O. De Moss, Des Moines, 3 cock; A. D. Warren, Altoona, 4 cock; F. Lafeber, Scommon, Kan., 5 cock; E. J. Rood, Webster

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Semi-Solid for Poultry or Pigs

Makes hens lay more and better eggs. Saves the lives of little chicks. Buttermilk, aside from the food value, keeps the bowels regulated and the chick in a perfect state of health which other feeds fail to do.

Buttermilk condensed to a "thick, jelly-like product," eliminating 84 pounds of water from every 100 pounds of buttermilk. You only pay freight on 16 pounds instead of 100. It is 98% digestible. The "Ideal Food" for little chicks and pigs.

Approximate Analysis

Protein 18%, Carbohydrates, (milk sugar) 21%, Ash or salts 4%, Lactic Acid 4%, and Fat 3%.

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Red and Speckled Sussex

"World's Champion Layers." You Will Find Full Details on page 470.

City, 5 ckl; J. M. Williamson, Des Moines, 2-3 plt; I. R. Reeves, Adelphi, 3 pen.

S. C. BUFF LEGHORNS—Edlyn Lucas, Des Moines, 1 cock, 1 hen, 3 ckl, 2 plt; Otis E. Ingle, Bondurant, 2-3 hen, 1-2 ckl, 1 plt.

S. C. BROWN LEGHORNS—Stewart J. Stocker, Des Moines, 1 hen, 1-3-4-5 plt; C. W. Brown, Des Moines, 1 ckl, 2 plt; W. O. Coon, 2 ckl.

S. C. BLACK MINORCAS—T. L. Jones, Boone, 1 ckl, 1 plt; H. C. Orr, College View, Neb., 2 ckl, 2 plt; Mason Ladd, Des Moines, 3 plt, 1 pen.

R. C. ANCONAS—W. D. Farrand, Central City, 1 cock.

S. C. ANCONAS—W. D. Farrand, 1 cock. LIGHT BRAHMAS—Fairholm Poultry Yards, Boone, 1 hen, 1 ckl, 1 plt, 1 pen; Mrs. W. M. Darst, Barney, 1 hen.

PARTRIDGE COCHINS—John Cummings, Mingo, 1 ckl, 1 plt, 1 pen.

BLACK LANGSHANS—H. P. Myers, Murray, 1 cock, 2 hen, 1 pen; Tony De Hass, Orange City, 2 cock, 5 hen, 4 ckl, 3-4 plt; Peter Sievers, West Side, 3 cock, 1-3 hen, 1-2 ckl, 1-2 plt; J. M. McPherrin, Des Moines, 4 hen, 3 ckl, 2 pen.

WHITE CRESTED BLACK POLISH—Mrs. W. O. De Moss, Des Moines, 2 ckl, 1-2 plt.

PLAIN SILVER POLISH—O. M. Brown, Slater, 1 pen.

SICILIAN BUTTERCUPS—Everett Freed, Des Moines, 1 hen, 3 ckl, 3 plt; L. E. Duncan, Mason City, 1 ckl; E. B. McPherrin, Des Moines, 2 ckl, 1-2 plt.

SILVER SPANGLED HAMBURGS—Chas. B. Dyke, Indianola, 1-2-3-4 hen, 1 ckl.

S. C. MOTTLED ANCONAS—R. H. Arrowood, Des Moines, 1 ckl, 1-3-5 plt; Mrs. H. H. Mugge, Des Moines, 2 ckl, 2 plt, 1 pen; W. D. Farrand, 3 ckl; Mrs. W. O. De Moss, Des Moines, 2 pen.

R. C. MOTTLED ANCONAS—W. D. Farrand, 1 cock, 1 hen.

HOUDANS—Mrs. W. O. De Moss, 1 cock, 1 hen.

WHITE PLUMES—Lee Martin, Eagle Grove, 1 ckl, 1 plt.

GOLDEN CAMPINES—George Brandrig, Jewell, 1 ckl, 1 plt.

WHITE CHINA GEESE—V. Renb & Son, Stuart, 1 goose.

COMMON GEESE—Henry Bogue, Berwick, 1-2-3 geese.

MAMMOTH WHITE HOLLAND TURKEYS—Mrs. Millard Thompson, Polk, 1 old tom.

WHITE MOSCOVY DUCKS—H. A. Brothers, Des Moines, 1 drake, 1-2 old duck.

WHITE PEKIN DUCKS—F. A. Van Ant-

werp, Lohrville, 1 yng drake, 1 old drake, 1 yng duck; C. G. Winset, 2 yng drake, 2 yng duck; Mrs. George Grayson, Des Moines, 2 old drake.

WHITE RUNNER DUCKS—A. D. Warren, Altoona, 1 old drake, 1 old duck.

WHITE COCHIN BANTAMS—C. D. Porter, Altoona, 1 hen, 2 ckl, 1-2 plt; George Fitterer, Chicago, Ill., 1 ckl; Frank Cameron, Ames, 3 ckl, 3 plt, 1 pen.

GOLDEN SEBRIGHT BANTAMS—Ronald L. Barnard, Ames, 1 cock, 1 hen, 1 pen.

BUFF COCHIN BANTAMS—Mr. and Mrs. Frank Harris, Des Moines, 1-2 cock, 1-2 hen, 1-2-4 ckl, 1-3 plt, 2 pen; W. J. Matsch, Burlington, 1-3 ckl, 1-2 plt, 1 pen.

BLACK R. C. BANTAMS—Mr. and Mrs. Frank Harris, Des Moines, 1 cock, 1 hen, 1 ckl, 1 plt, 1 pen; Rev. Fred Harris, Indianola, 2 cock, 2 hen.

AWARDS AT FORT ATKINSON, WIS. SHOW.

John F. Mueller, Secretary.

BARRED PLYMOUTH ROCKS—J. Wm. Heid, Jefferson, 1 cock; John Huppert, Ft. Atkinson, 1 hen, 2-3 ckl, 1-2-3 plt, 1 pen; Arthur Zimmerman, Jefferson, 1 ckl.

WHITE PLYMOUTH ROCKS—U. B. Steil, Ft. Atkinson, 1-2-3 cock, 1-3-4-5 hen, 1-4-5 ckl, 1-3-5 plt, 1 pen; Mrs. Otto Schinke, Jefferson, 5 cock, 3 ckl, 3 pen; Frank J. Frodl, Jefferson, 4 cock, 3 hen, 2 ckl, 2-4 plt, 2 pen.

BUFF PLYMOUTH ROCKS—Frank Kramer, Ft. Atkinson, 1-2 cock, 1-2 hen, 1-2 ckl, 1-2 plt, 1 pen.

PARTRIDGE ROCKS—A. V. Buth, Sullivan, 1-2 cock, 1-2-3-4 hen, 2-3 ckl, 1-2-3-4 plt, 1 pen.

SILVER WYANDOTTES—Theo. Sonnenmann, Watertown, 1 cock, 1-2-3-4 plt, 1 pen.

GOLDEN WYANDOTTES—Mark Sexton, Ft. Atkinson, 1 cock, 1 ckl, 1-2 plt.

WHITE WYANDOTTES—Ed. Preusse, Ft. Atkinson, 1-2 cock, 2-4-5 hen, 1-3 ckl, 2-5 plt, 1 pen; W. E. Hathaway, Lake Mills, 3 cock, 3 hen, 4-5 ckl, 1 plt, 2 pen; Elm-croft Yards, Ft. Atkinson, 2 ckl, 3-4 plt, 3 pen; C. E. Davis & Son, Lake Mills, 1 hen.

BUFF WYANDOTTES—O. F. Wisch, Jefferson, 1 cock, 1 hen, 1 plt.

R. C. RHODE ISLAND REDS—John F. Mueller, Ft. Atkinson, 1 cock, 1-2 hen, 1-2-3 ckl, 1-2-3-4-5 plt, 1 pen; Uri Laskey, Watertown, 2 cock.

LIGHT BRAHMAS—W. W. Ives, Ft. Atkinson, 1-2 hen, 1-2 ckl, 1-2 plt.

S. C. BROWN LEGHORNS—Breeze Bros., Cambridge, 1-2 hen, 1 ckl, 1-2 plt, 1 pen.

S. C. WHITE LEGHORNS—Alb. Zier, Watertown, 1-3 cock, 2-3-4-5 hen, 2-3 ckl, 1-4 plt, 1 pen; Herbert Barrett, Ft. Atkinson, 2 cock; Rees Orpington Farm, Jefferson, 3 cock, 1 hen, 4-5 ckl, 3-5 plt; Arthur Zimmerman, Jefferson, 1 ckl, 2 plt.

S. C. BLACK MINORCAS—Chas. Dolase, Watertown, 1-3 hen, 2-4 ckl, 1-2-5 plt, 1 pen; Will & Rammel, Ft. Atkinson, 1 cock, 4-5 hen, 1-3 ckl, 3-4 plt, 2 pen; E. P. Wilcox, Janesville, 2-3 cock, 2 hen.

R. C. BLACK MINORCAS—Chas. Jordan, Jefferson, 1 hen, 1-3 ckl.

S. C. WHITE MINORCAS—Emil Horn, Ft. Atkinson, 1 cock, 1-2-3-4 plt, 1 pen.

R. C. WHITE MINORCAS—Carlin Vosburg, Ft. Atkinson, 1 hen, 1 ckl, 1-2-3 plt, 1 pen.

S. C. ANCONAS—F. J. Wandschneider, Ft. Atkinson, 1 cock, 1-2-3-4 hen, 1-2 ckl, 1-2-3 plt, 1 pen.

S. C. BUFF ORPINGTONS—O. F. Wisch, Jefferson, 2-5 cock, 1-2-3-5 hen, 1-3 ckl, 1-5 plt, 1 pen; Rees Orpington Farm, Jefferson, 4 cock, 4 hen, 2-3 plt; Clyde Fisher, Evansville, 3 cock, 4 ckl, 4 plt; Fred Krinkey, Beloit, 1 cock, 2-5 ckl, 2 pen.

S. C. BLACK ORPINGTONS—Dan Strickland, Ft. Atkinson, 1 cock, 2-4 hen, 1-3 ckl, 1-2-3-5 plt, 1 pen; Gruetzmacher & Son, Watertown, 1-3-5 hen, 2 ckl, 4 plt, 2 pen; Lon Nelson, Ft. Atkinson, 4 ckl.

S. C. WHITE ORPINGTONS—O. F. Wisch, 1 cock, 1-2 hen, 1 plt.

DARK CORNISH—Robt. Doerr, Watertown, 1 cock, 1 hen, 1 plt.

W. C. BLACK POLISH—Edw. Amerpohl, Janesville, 1 cock, 1-2-3-4 hen, 1-2 ckl, 1-2-3 plt, 1 pen.

OHIO BUFFS—O. F. Wisch, 1 cock, 1-2-3 hen, 1 plt, 1 pen.

SICILIAN BUTTERCUPS—E. D. White, Ft. Atkinson, 1 cock, 1 hen, 2-3 plt, 1 pen; Elm-croft Yards, Ft. Atkinson, 1-2 ckl, 1-4 plt, 2 pen.

SILVER SPANGLED HAMBURGS—F. Wittenwyler, Watertown, 1 plt.

BLACK JAPANESE BANTAMS—Henry Heyse, Whitewater, 2 ckl, 1 plt.

WHITE GAME BANTAMS—Henry Heyse, 1 cock, 1 hen.

LIGHT BRAHMA BANTAMS—Henry Heyse, 1 cock, 1 hen.

DARK BRAHMA BANTAMS—Henry Heyse, 1 cock, 1 hen.

PARTRIDGE COCHIN BANTAMS—Henry Heyse, 1 ckl, 1 plt.

WHITE ROSE COMB BANTAMS—1 cock, 1 hen.

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If you are using any incubator with a lamp on the end or side you are paying big oil bills. If you are using any incubator whose tank has to be filled more than once to the hatch you are doing a lot of extra work and taking a big chance on the eggs becoming chilled. If you are using an X-Ray Incubator you're saving four to five gallons of oil and—what may be more important—you're saving a lot of work and worry—most important of all, you're getting the *biggest hatches*.

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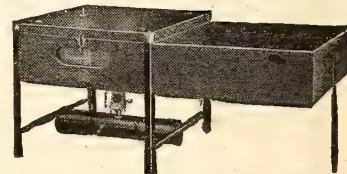
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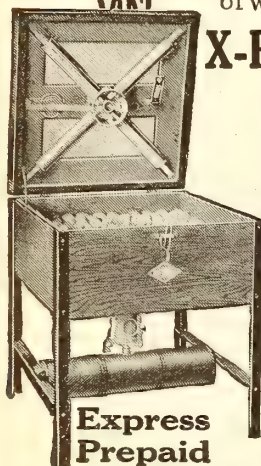
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 RED PYLE GAME BANTAMS—Ben Haberman, 1 cock, 1 hen, 1 ckl, 1 plt.
 BLACK BREASTED GAME BANTAMS—1-2 hen, 1 ckl, 1 plt.
 WHITE JAPANESE BANTAMS—F. Wittenwyler, 2 cock, 1-2 hen, 1 plt.

AWARDS AT WYANDOTTE, MICH., SHOW.

G. A. Smock, Secretary.

WHITE WYANDOTTES—E. J. Sauers, Wyandotte, 1 ckl, 1-2-3-4 plt, 1 pen.
 PARTRIDGE WYANDOTTES—J. D. Millman, Wyandotte, 1 cock, 1-2-3 hen, 1-2 ckl, 1-2-3 plt, 1 pen.
 GOLDEN WYANDOTTES—Peter Weiner, Wyandotte, 1 ckl, 1-2-3-4 plt, 1 pen.
 SILVER LACED WYANDOTTES—George Beaubin, Wyandotte, 3 ckl, 1 plt.
 BARED PLYMOUTH ROCKS—Smoock Bros., Wyandotte, 1 cock, 1-2-3 ckl, 1-3-4 plt, 1 Ex. pen, 1-3 plt-bred ckl, 1-3 ckl-bred plt, 1 ckl-mated pen, 1 plt-mated pen; A. F. Trites, Detroit, 2 hen, 4 plt-bred ckl; J. W. Kreter, Wyandotte, 4 ckl, 2 plt, 2 plt-bred ckl, 2 ckl-bred plt; Wm. E. Knott, Dearborn, 3 cock, 3 hen; Poast & Lucas, Lennon, Mich., 2 cock, 4 ckl-bred plt; Chas. Michaels, Trenton, Mich., 1 hen.
 S. C. BROWN LEGHORNS—Howard Hosmer, Wyandotte, 1-2 hen; Peter Weiner, Wyandotte, 3 hen, 1 ckl, 1-2-3 plt, 1 pen.
 BUFF LEGHORNS—Chas. Koester, Wyandotte, 1 ckl.

R. C. WHITE LEGHORNS—John Miller, Wyandotte, 1 ckl, 1-2-3-4 plt, 1 pen.

S. C. WHITE LEGHORNS—Chas. Bossman, Wyandotte, 1 cock, 1-2-3-4 hen, 1-2-3-4 ckl, 1-2-3-4 plt, 1-2 pen.

S. C. WHITE ORPINGTONS—Wm. J. Cameron, Wyandotte, 4 ckl, 2-4 plt; J. M. Leask, Detroit, 1-2 hen, 1-3 plt.

S. C. BUFF ORPINGTONS—Clarence Cramer, Wyandotte, 3 ckl; William Allen & Son, Detroit, 1 ckl, 1-2-3-4 plt, 1 pen; Charles Koester, 1-2 hen; L. J. Williams, Wyandotte, 3 hen.

S. C. BLACK ORPINGTONS—Charles Koester, 2 cock, 4 ckl, 1-3 plt.

S. C. BLACK MINORCAS—Milton Crassweller, Wyandotte, 1 hen.

ANCONAS—Ray Osburn, Highland Park, 1 hen, 2 ckl, 1-3 plt; Everett Payette, Wyandotte, 4 plt; A. Frankhouse, Rockwood, 2 ckl, 2 plt.

LIGHT BRAHMAS—A. L. Gettleman, Wyandotte, 2 ckl, 1-2-4 plt, 1 pen; E. Johns, Wyandotte, 1 cock, 1 ckl, 3 plt.

S. C. RHODE ISLAND REDS—E. E. Murtough, Detroit, 1 hen; H. R. Pfeiffer, Detroit, 3 cock, 2-4 hen; F. J. Nieman, Detroit, 1-3 ckl; Tom Gleske, Wyandotte, 4 plt; Thomas Roberts, Wyandotte, 1 cock, 3 hen; John Schultz, Wyandotte, 2 cock, 2-4 ckl, 1-2-3 plt; S. C. Dinsmore, Detroit, 1 ckl.
 R. C. RHODE ISLAND REDS—R. Daniels, Wyandotte, 2 cock, 2-3 hen, 1-3-4 ckl, 1-3-4 plt, 1 pen; L. C. Knorr, Detroit, 1 cock, 1 hen, 1 ckl, 2 plt.

DARK CORNISH—Owen Vroman, Wyandotte, 2 cock, 3-4 hen; W. R. Johnson, Wyandotte, 3 cock; S. Hosmer, Wyandotte, 2-3 ckl, 1 plt; Kearns & Markey, Wyandotte, 1 cock, 1-2 hen, 1 ckl, 2-3-4 plt, 1 pen.

GOLDEN CAMPINES—A. V. Baumeister, Rockwood, 3 ckl, 1 plt.

SILVER CAMPINES—Smith & Morgan, Grosse Isle, 1-2-3 ckl, 1-2-3-4 plt, 1 pen.

THOMPSON ROUND GAME—A. V. Baumeister, 1 ckl.

SILVER DUCKWING GAME—Everett Payette, Wyandotte, 1 cock.

WHITE COCHIN BANTAMS—Maurice Watts, Wyandotte, 1 hen, 1-2 ckl, 1-2-3-4 plt, 1 pen.

R. C. BLACK BANTAMS—M. Watts, Wyandotte, 1 cock, 1-2 plt.

TOULOUSE GEESSE—Chas. Bakhaus, Wyandotte, 1 male, 1 female.

WHITE PEKIN DUCKS—S. J. Williams, Wyandotte, 2 drake, 3 duck; Chas. Bakhaus, 1 duck, 2 duck.

INDIAN RUNNER DUCKS—Chas. Koester, 1-2-3 drake, 1-2-3-4 duck.

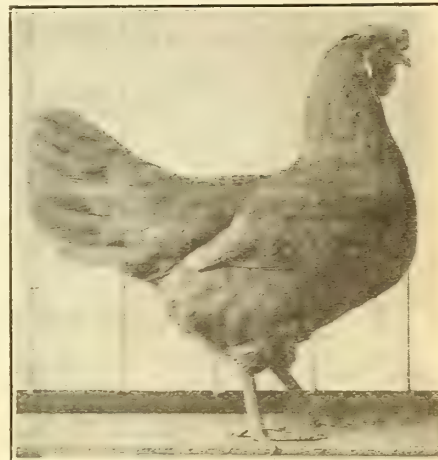
AWARDS AT GRAND RAPIDS, MICH., SHOW.

WHITE WYANDOTTES—L. E. Sherman, Vicksburg, 5 cock, 5 hen; Arthur Rigg, Grand Rapids, 3-4 cock, 3-4 hen, 4-5 ckl, 1-4 plt, 5 pen; F. M. Crowe, Owosso, 5 plt, 1 pen; Ralph Humphrey, Athens, 1-2 hen, 1-2-5 ckl, 2-5 plt, 2 pen; F. A. Heinz, Battle Creek, 1 cock, 1 hen, 1-3 ckl, 2 plt; J. Verner Sheap, Jackson, 1 hen.

COLUMBIAN WYANDOTTES—Richard Sawyer, Benton Harbor, 1 cock, 2 hen, 2 ckl, 2-3 plt, 1 pen; B. Vandenbosch, Benton Harbor, 1 cock, 2 hen, 2 ckl, 2-3 plt, 1 pen; B. Vandenbosch, Grand Haven, 2 cock, 1 ckl, 1 plt.

S. C. WHITE LEGHORNS—C. G. Maybey, Wayland, 4 ckl; John Heider, Grand Rapids, 3 hen; Thomas S. Oates, Grand Rapids, 5 cock, 4 hen; Geo. B. Ferris, Grand Rapids, 2-4 cock, 1-3-4 plt, 1 pen; Rufus Morse, Belding, 1-3 ckl.

BLACK ORPINGTONS—Roy McCarthy, Grand Rapids, 3 hen.
 HOUDANS—B. R. Adams, Benton Harbor, 2 cock; William Hofs, Grand Rapids, 1 cock, 1-2-3-4 hen.
 RED SUSSEX—H. E. Shepherd, Grand Rapids, 1 plt; Charles H. Doren, Grand Rapids, 1-2 ckl, 2-3-4-5 plt.
 SPECKLED SUSSEX—C. A. Keefer, Mus-



First prize S. C. Buff Leghorn hen, Pittsburgh, 1916. Note the long back and well spread tail. Owned by Thornycroft Buff Leghorn Farm, Washington, Pa.

kegon, 1 ckl, 1-2 hen, 1-2 plt; Charles Doren, 1 ckl.

SILVER CAMPINES—Minnie Bell, Big Rapids, 1 ckl, 1-3 plt; H. Knight, Grand Rapids, 1 hen, 2 ckl, 2 plt.

GOLDEN CAMPINES—H. Knight, 1 cock.

WHITE ORPINGTONS—A. R. Smith, Alma, 1 cock, 1-3-4 hen, 1 ckl, 1-2 plt; E. G. Studley, Grand Rapids, 2 hen, 2 ckl, 3 plt, 1 pen; Smith & Burns, Sault Ste. Marie, 5 hen, 5 plt.

S. C. ANCONAS—H. W. Blough, Freeport, 1 ckl, 1-2 plt.

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This 100-lb. bag of Chick Food will feed 100 newly-hatched chicks 4 weeks, or 50 chicks 6 to 7 weeks.



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Five grand pens headed by Chicago and Indianapolis first prize winners. My mating list describing these pens will be sent free upon request.

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Eggs from Strong, Healthy, Vigorous Birds Rhode Island Reds—Light Brahmas

Standard Bred, Utility and Fancy combined. Prodigious, early maturing, winter layers. 16 year's experience. Send for circular. You can't do better. **BUENA VISTA FARM Ball Hill NORTHBORO, MASS.**

BARRED PLYMOUTH ROCKS—(Pullet bred) John Schipper, Holland, 4 ckl; Curtis & Pfeifer, Ionia, 1 cock, 2 ckl, 1 pen; H. J. Rademaker, Grand Rapids, 3-5 ckl, 4 pen; Alfred Rodgers, Grand Rapids, 2-3 cock, 1-5 pen; K. H. Hawkinson, Grand Rapids, 1-4 ckl, 3 pen, also best male in class.

BARRED PLYMOUTH ROCKS—(Cockerel bred) F. E. Boyd, Alma, 4 hen, 5 plt, 4 pen; Arthur J. Wood, Middleville, 5 hen, 4 plt, 2 pen; Curtis & Pfeifer, 2-3 plt, 2-3 hen, 3 pen; K. H. Hawkinson, 1 hen, 1 plt, 1 pen, also best female in class.

BARRED PLYMOUTH ROCKS—(Exhibition) Richard Sawyer, 5 plt; Arthur J. Wood, 4 ckl; Curtis & Pfeifer, 4-5 hen, 5 ckl, 2-3 plt, 2 pen; H. Rademaker, 2-3 hen, 1-4 plt; K. H. Hawkinson, 2-3-4 cock, 1-2-3 skl, 1 hen, 1 pen; Harold A. Conant, Port Chester, N. Y., 1 cock, 5 hen.

AWARDS AT DE PERE, WIS., SHOW.

Louis H. Hebel.

BARRED PLYMOUTH ROCKS—Mrs. C. D. Collier, De Pere, 1 plt-bred cock, 1 plt-bred ckl, 1-2 ckl-bred hen, 1 ckl-bred plt, 2-3 cock, 1-2 hen, 3 ckl; Chas. H. Evans, De Pere, 2 plt-bred ckl, 1 cock; Peter Baxter, De Pere, 1-2 ckl; Gust Lovitz, Green Bay, 2 plt-bred cock, 1-2-3-4-5 plt.

WHITE PLYMOUTH ROCKS—Mrs. H. C. Rogers, Oshkosh, 1-2-5 cock, 1-2-3 hen, 2

WHITE CHINA GEESE—Sam Clark, De Pere, 1-2 cock, 1 hen.

TOULOUSE GEESE—Theo. Wesolowski, 1 ckl, 1 plt.

S. C. BUFF LEGHORNS—Wm. F. Mueller, Appleton, 1 cock, 1-2-3-4 hen, 1-2 ckl, 1-2-3-4 plt, 1-2 pen; G. A. Rabbideau, De Pere, 3 ckl.

R. C. WHITE LEGHORNS—Mrs. H. C. Rogers, 1-2-3 cock, 1-2-3 hen, 1-2-3 ckl, 1-2-3-4-5 plt, 1 pen.

S. C. WHITE LEGHORNS—Chas. O'Connor, Green Bay, 1 cock, 3-4 hen, 4 ckl; Mrs. H. C. Rogers, 2-3 cock, 1-2 hen, 1-3 ckl, 1-4 plt, 1 pen; Jas. Phimister, 2 ckl, 3-5 plt; Nicholas E. Holly, Manitowoc, 2 plt.

S. C. BROWN LEGHORNS—C. Daren, De Pere, 1-2 ckl-bred hen, 1-2 ckl-bred plt, 1 cock, 1-2-3-4-5 hen, 1 ckl, 1-2-3-4 plt, 1 pen.

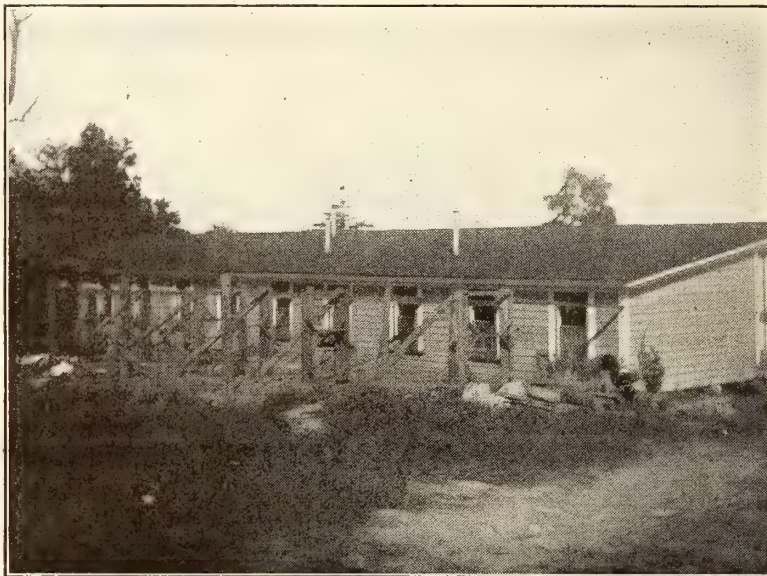
S. C. BLACK MINORCAS—M. J. Luluzerne, Green Bay, 1 cock, 1-2-3 hen, 2 plt, 1 pen; Rud. Rupiper, De Pere, 1 ckl, 1-3 plt; Jas. Phimister, 4-5 plt.

S. C. BLACK ORPINGTONS—Jas. A. Daley, 1 hen, 1 ckl, 1 plt; G. A. Rabbideau, 2-3 hen, 2-3 ckl, 2-3 plt.

S. C. WHITE ORPINGTONS—J. J. Lurquin & Son, 1-2 cock, 1-2-3-4 hen, 1-2-3-4-5 plt, 1 pen.

S. C. BUFF ORPINGTONS—Jas. A. Daley, 1 ckl, 1 plt; Leslie Clark, De Pere, 2 ckl, 2 plt; Jas. Phimister, 3 plt.

W. C. BLACK POLISH—Wm. Zehms, Jr.,



Brooder house on the Rosemount Farm, Franklin, Pa.

ckl, 2-3-4-5 plt, 1-2 pen; Louis Guerin, De Pere, 3 cock; Nap Vansistine, De Pere, 4 cock, 4-5 hen, 3-4 ckl, 3 pen; Jas. A. Daley, Mohawk, Mich., 1 ckl, 1 plt.

BUFF PLYMOUTH ROCKS—Julius Phillips, De Pere, 1 ckl, 1 plt; Jas. Phimister, De Pere, 2 plt.

PARTRIDGE PLYMOUTH ROCKS—Jas. A. Daley, 1 plt.

RED SUSSEX—Case & Daniel, Green Bay, 1 ckl, 1-2 plt.

BLACK SUMATRAS—Jas. A. Daley, Mohawk, Mich., 1 ckl.

Bronze Turkeys—Tom McCabe, De Pere, 1 cock; Mrs. Pearl M. Sutton, De Pere, 2 cock, 1 hen.

SILVER PENCILED WYANDOTTES—T. R. Bowring, De Pere, 1 cock, 1 hen, 3 ckl, 3-4 plt; Peter Peters, De Pere, 2 hen, 1-2 ckl, 1-2-5 plt.

PARTRIDGE WYANDOTTES—Chas. Behrendt, Jr., Green Bay, 1 cock, 5 hen, 1 pen; Victor Le Caire, De Pere, 2 cock, 3-4 ckl; D. P. Franken, De Pere, 3 cock, 4-5 plt; A. F. Bauman, Plymouth, 1 hen, 2 ckl, 3 plt; Mose Beaupre, De Pere, 2-4 hen; Wm. Hope, Green Bay, 3 hen, 1 ckl, 1-2 plt; Jas. Phimister, 5 ckl.

S. C. ANCONAS—E. J. R. Meyer, Oshkosh, 1 cock, 2-3 hen, 2-3 ckl, 1-2-4-5 plt, 1 pen; Case & Daniels, 2 cock, 1-4-5 hen, 2 pen; Jas. Phimister, 1 ckl, 3 plt.

BUTTERCUPS—Harry Loper, De Pere, 1 cock, 1-2-3 hen; Mrs. Fred Loper, De Pere, 1-2 plt; Jas. Phimister, 3 plt.

DARK CORNISH—F. Wassenberg, 1 cock, 1 hen, 3-4 plt; Mrs. Geo. Gilson, Greenleaf, 1 ckl, 1-2 plt.

SILVER DORKING—Jas. Phimister, 1 ckl.

WILD MALLARD DUCKS—Peter Peters, 1 cock, 1 hen; Jacob Janssen, De Pere, 1 ckl, 1-2 plt.

PENCILED RUNNERS—J. S. Whiting, De Pere, 1 cock, 1-2-3-4 hen, 1 trio.

FAWN AND WHITE RUNNERS—J. S. Whiting, 1 cock, 1-2-3-4 hen, 1 trio.

MANDARIN DUCKS—Theo. Wesolowski, De Pere, 1 cock, 1 hen.

FRIZZLES—Frank Minkebig, Green Bay, 1 cock, 1-2 hen.

Green Bay, 1 cock, 1-2-5 hen, 1 ckl, 1-6-5 plt, 1 pen; A. G. Le Caire, De Pere, 2 cock, 3-4 hen, 2-3 ckl, 2-4 plt, 2 pen.

S. C. RHODE ISLAND REDS—Mat. Rahn, Green Bay, 1 hen, 1-4 ckl, 1-2 plt; Wm. Finnegan, Green Bay, 2 ckl, 3-5 plt; Otto Tonne, Green Bay, 3 ckl, 4-5 plt.

R. C. RHODE ISLAND REDS—Jas. A. Daley, 1 cock; Chas. Fosse, Appleton, 2-5 cock, 1-2-5 ckl; Jacobson Bros., De Pere, 3 cock, 4 ckl, 3-4 plt; Coddington Bros., Green Bay, 4 cock, 2-3 hen; Geo. L. Loos, Appleton, 1 hen, 3 ckl, 1 plt, 1 pen; Otto Tonne, 2-5 plt.

WHITE WYANDOTTES—A. J. Shannon, Appleton, 1 cock, 1-2 hen, 2 ckl, 1-3 plt, 1 pen; Geo. A. Steckert, De Pere, 2-5 cock, 3-4-5 hen, 1-4-5 ckl, 2-4-5 plt, 2-3 pen; Jas. Phimister, 3-4 cock, 3 ckl.

GOLDEN WYANDOTTES—Mose Beaupre, De Pere, 1 cock, 1 plt; C. V. Loper, 1 ckl, 2-3-4-5 plt.

AWARDS AT GIBSONBURG, OHIO, SHOW.

J. W. Richard, Secretary.

BARRED ROCKS—J. W. Richards, 1 ckl; William and Otto Molkenbur, 2 cock, 1 hen, 2-3 ckl, 1-2-3 plt, 1-2 pen; Wendler Bros., 1-3 cock, 2-3 hen.

BUFF ROCKS—A. C. Foos, 1 cock, 1-2 hen, 1-2-3 ckl, 1-2 plt, 1 pen.

PARTRIDGE ROCKS—H. H. Becker, 1-2 cock, 1-2-3 hen, 1 ckl, 1-2-3 plt, 1 pen; J. W. Richard, 2 ckl.

GOLDEN WYANDOTTES—Wendler Bros., 2 cock, 1-2-3 hen, 2 pen.

S. C. RHODE ISLAND REDS—Harmon Foss, 1 cock, 2 ckl; Emzy Myers, 2 cock; Foss & Wichman, 3 cock, 1-2-3 hen, 3 pen; Amanda Wichman, 1-3 ckl, 2-3 plt, 1-2 pen; William and Otto Molkenbur, 1 plt.

R. C. RHODE ISLAND REDS—H. P. Heeren, 1 cock, 1 hen, 1-2-3 ckl, 2-3 plt, 1 pen; Emzy Myers, 1 plt.

S. C. WHITE LEGHORNS—E. K. Sampsell, 1 cock, 3 hen, 1 ckl, 2 pen; Emery Schneider, 2 cock, 1-2 hen, 2 ckl, 1-2-3 plt, 1 pen; Dale Walters, 3 ckl, 3 pen.



First prize S. C. Buff Leghorn cock, New York State Fair, 1915. Also first at Hagerstown, 1915, and Pittsburgh, 1916. A bird of fine color in all sections, with real Leghorn type. Owned by Thornycroft Buff Leghorn Farm, Washington, Pa.



Baby Giant, a 7 3/4-lb. S. C. Black Minorca pullet. Winner at Chicago, Cleveland and Indianapolis. Owned by John L. Brown, 1515 W. 7th St., Anderson, Ind.

S. C. BROWN LEGHORNS—Rene Cassau-bo, 1 hen, 1 ckl, 1 plt.

S. C. WHITE ORPINGTONS—Mrs. L. C. Taylor, 1-2 hen, 1 ckl, 1-2 plt, 1 pen.

SILVER CAMPINES—L. C. Taylor, all.

S. C. BROWN ORPINGTONS—Wayne Adams, 1-2-3 hen, 1 ckl, 1 plt, 1 pen.

BLUE ANDALUSIANS—L. C. Taylor, all.

W. R. BANTAMS—L. C. Taylor, all.

B. R. BANTAMS—L. C. Taylor, all.

RED PYLE BANTAMS—L. C. Taylor, all.

AWARDS AT CAMBRIDGE, OHIO, SHOW.

ANCONAS—Ernest Erven, 1 cock, 2 hen, 3 hen, 4 plt; Albert Gulley, 2 cock, 3 hen,

2 ckl, 1 pen; D. C. Hudson, 3 ckl, 1 hen, 2 plt, 3 pen; J. C. McCutcheon, 1 ckl, 3 plt, 2 pen; John W. Reid, 4 ckl, 1 plt, 4 pen.

BLUE ANDALUSIANS—All to C. C. Palmer.

LIGHT BRAHMAS—All to Samuel G. Tucker.

SILVER CAMPINES—All to Miller Bros.

DARK CORNISH—Harper & Sweeney, 1 cock, 2-3-4 hen, 2 pen; C. C. Palmer, 2 cock, 1 hen, 1 ckl, 1-2 pullet, 1 pen.

GOLDEN POLISH—All to C. C. Palmer.

RED SUSSEX—All to Red Sussex Yards.

RHODE ISLAND WHITE—All to R. E. Early.

S. P. HAMBURGS—All to Miller Bros.

R. C. BROWN LEGHORNS—G. Paul Aitkin, 1 hen, 1 ckl, Frank McCleary, 1 cock, 1-2-3-4 plt, 1 pen.

S. C. WHITE LEGHORNS—Dawson & Young, 1-2 cock, 1 ckl, 2 plt, 2-4 pen; Walter F. Auman, 2 cock, 2 cockerel, 1-2-3 hen, 1-3-4 plt, 1-3 pen; W. N. Ramsey, 4 cock, 4 ckl, 4 hen; Russel Bean, 3 cockerel.

S. C. BUFF LEGHORNS—E. D. Doney, 1 cock, 1 ckl, 1 plt, 1 hen; W. R. Brunsworth, 2-3 plt, 2-3 hen.

S. C. BLACK MINORCAS—All to R. M. Oliver.

S. C. BUFF ORPINGTONS—All to H. W. ogel.

S. C. WHITE ORPINGTONS—W. B.

The Dandy Colony Brooder

Low-in Price, Large in Size,
Great in Efficiency,

\$15.00

Broods Up to 500 Chicks

Burns Coal or Gas

FULLY GUARANTEED



The Easiest to Care for.
The Safest to Use.

Send us \$15 and we will ship you a Dandy Colony Brooder F. O. B. Keeseville. Use the brooder 30 days, and if it does not do exactly what we claim for it we will refund your money

We have an attractive proposition to offer dealers. The Dandy Colony Brooder is in demand and we want dealers in every city and town. Send today for our liberal offer.

Reasons Why the Dandy Colony Brooder Is the Best Colony Brooder on the Market

No troublesome oil lamps; broods 300 to 500 chicks; saves labor and fuel, needs attention only twice a day. Will distribute an even heat at all times. All parts of the brooder can be easily and quickly cared for; can be operated by a child.

Stove is made entirely of the best grade of cast iron designed to allow for contraction and expansion, flat, all metal hover, guarantees an even distribution of heat, hover opens in half so the fire can be readily reached, heavy iron band reinforces the hover.

Rocker grate, heavy canvas curtain chick-valve on top of the stove under the hover, sensitive thermostat regulates the heat, positively no gas fumes in the room, air cell asbestos padding in fire pot makes the brooder fireproof; ashes cannot fall into litter; self-feeding; equipped for coal or gas.

The Dandy Colony Brooder is used on the most successful farms in the country

Every Dandy Colony Brooder owner is a Dandy Colony Brooder salesman, because he finds in his brooder what the company says is there, and because it will do exactly what the company says it will do, for he knows that after a 30-day trial he can return it and get his money back if it doesn't perform as represented. Order one today from your dealer or direct from the manufacturer.

ADDRESS BOX A

NORTHEASTERN MANUFACTURING CO.

The House of Better Brooders

KEESEVILLE, NEW YORK

Shaw, 1 cock, 1-2-3-4 hen, 1-2-3 cockerel 1-3 pit, 1 pen; C. M. Dilts, 2 cock, 2 pen; W. E. Bridge, 2-4 pit.
S. C. BLACK ORPINGTONS—All to Wm. Dusz.

PARTRIDGE ROCKS—F. C. Huth & Son, 1 cock, 1-2-3-4 hen, 1 ckl, 2-3-4 pit, 1-2 pen; G. Paul Aitkin, 1 pit.

GOLDEN POLISH—All to C. C. Palmer. BARRED ROCKS—F. C. Huth & Son, 1-2 cock, 1-2-3-4 hen, 1-4 ckl, 1-2 pit, 1-2-4 pen; John H. McCormack, 3 cock, 3 pit, 4 pit, 4 pen; LeRoy Ewing, 4 cock, 3 ckl.

S. C. BUFF ROCKS—C. C. Palmer, 1 cock, 1-2-3-4 hen, 3 ckl, 1 pit, 1-3 pen; Elizabeth Black, 1-2-4 cockerel, 2-3-4 pit, 2-4 pen.

WHITE ROCKS—C. M. McCollough, 1 cock, 3 ckl, 3 pit, 2 pen; C. P. Shumacher, 1 hen, 2 hen, 1 ckl, 1-2 pit, 1 pen; R. C. Roos, 2 ckl, 3 pen; J. O. Moss & Son, 4 ckl.

R. C. REDS—C. L. Smith, 1-2 cock, 1-2 pit, 1-3 pen; Andrew Frew, 2 cock; C. C. Palmer, 4 ckl, 1-2-3-4 hen, 2-4 pit, 2-4 pen; Henry Harding, 1 ckl.

S. C. REDS—C. L. Smith, 1-2 cock, 1-4 hen, 1 ckl, 1-2-3 pit, 1-2 pen; Henry Harding, 4 pit; O. F. Lowry, 4 cock, 3 hen; U. D. Thompson, 2 ckl; J. C. Sarchet, 3 cock, 2 hen.

S. LACED WYANDOTTES—T. C. Knox, 1 cock, 1-3-4 hen, 2 ckl, 3 pit, 2 pen; Clifton Smith, 1 ckl, 1-2-4 pit, 1 pen.

WHITE WYANDOTTES—Ross Moore, 1-2 hen, 2 ckl; W. B. Shaw, 1-2 ckl, 1-2-3-4 pit, 1 pen.

PARTRIDGE WYANDOTTE—C. C. Palmer, 1-2 cock, 1-2-3-4 hen, 1-2 ckl, 1-3 pit, 1-2 pen; W. C. Duff & Son, 3 ckl, 2-4 pit, 3 pen.

LAYING CONTEST—Two pens of 5 birds each entered. Anconas, Amanda J. Dusz; White Leghorns, J. O. Moss & Son, each pen laying 13 eggs in four days, resulting in a tie.

Best pen in show, all varieties competing. Wm. Dusz, Black Orpington.

Best cock in show, Dawson & Young, S. C. White Leghorn.

Best female in show, F. C. Huth & Son, Barred Rock hen.

AWARDS AT DELTA, CAL., SHOW.

Mrs. A. J. Cady, Secretary.

BARRED PLYMOUTH ROCKS—A. J. Cady, Paonia, 1 cock, 1-2-3-4 hen, 1 ckl, 1-2 pit, 1-2 pen; Mrs. Dean Allison, Olathe, 2 cock, 3-4 ckl, 3-4 pit, 3 pen; L. R. Wigram, 2 ckl, 4 pen.

PARTRIDGE PLYMOUTH ROCKS—M. C. King, Panola, 1 cock, 1 hen, 1 ckl, 1-2-3-4 pit, 1 pen.

WHITE WYANDOTTES—Hillman & Dyer, 1-2 cock, 1-2-3-4 hen, 1-2-3-4 ckl, 1-2-4 pit, 1-2 pen; Mrs. Ida Loving, Pueblo, 3 pit, 3 pen.

R. C. RHODE ISLAND REDS—Mrs. Dean Allison, 1 cock, 2 hen, 1-3-4 ckl, 2-4 pit, 1-3 pen; M. E. Flinnian, Montrose, 2 cock, 1 hen, 2 ckl, 1-3 pit, 2 pen.

WHITE ORPINGTONS—L. R. Shellenberger, Pueblo, 1 cock, 2-3 hen, 2 ckl, 4 pit, 2-3 pen; W. G. Hillman, 2 cock, 1-4 hen; A. B. Horton, Cedarbridge, 1 ckl, 3 pit, 1 pen; Mrs. F. M. Bacon, 1-2 pit.

BUFF ORPINGTONS—C. B. Adams, 1 cock, 1-2-3-4 hen, 1-2-3-4 ckl, 1-2-3-4 pit, 1-2-4 pen; W. G. Hillman, 2 cock; C. T. Vincent, 2 cock; Mrs. F. M. Bacon, 3 pen.

SICILIAN BUTTERCUPS—Richardson & Stephenson, 1-2 pit, 1 pen.

S. C. BLACK MINORCAS—Reese, Porter, 1 ckl, 1 pit.

S. C. WHITE LEGHORNS—V. A. Phillips, Cedarbridge, 1 cock, 1-2-3 hen, 2-3 ckl, 1-2-4 pit, 1-3 pen; I. J. Tripp, 2 cock, 1-4 ckl, 3 pit, 2 pen.

S. C. BROWN LEGHORNS—I. J. Tripp, 1-2-3 pit.

MOTTLED ANCONAS—C. L. Hawley, Montrose, 1-2 ckl, 1-2-3-4 pit, 1 pen.

RED SUSSEX—L. R. Shellenberger, 1-2-3 pit.

GAMES—Frank O'Connor, 1 ckl.

WHITE ROSE COMB BANTAMS—Mildred Patterson, 1 hen.

PARTRIDGE COCHIN BANTAMS—Frank O'Connor, 1 hen.

WHITE TURKEYS—Alonzo Lewis, Olathe, 1 cock, 1-2 hen.

AWARDS AT IONIA, MICH., SHOW.

Vera K. Williams, Secretary.

BARRED PLYMOUTH ROCKS, EX. MATING—Curtis & Pfeiffer, Ionia, 2-3-4 cock, 1-2-4 hen, 1-2 ckl, 2-4-5 pit, 1-2 pen.

BARRED PLYMOUTH ROCKS, CKL. MATING—Curtis & Pfeiffer, 1-2-3-4-5 hen, 1-2-3-4 pit, 1-2 pen.

BARRED PLYMOUTH ROCKS, PLT. MATING—Curtis & Pfeiffer, 1-2-3 cock, 1 ckl, 1-2 pen; H. J. Rademaker, Grand Rapids, 4 pit-bred cock, 4 pit-bred pen; Ray Robertson, Ionia, 1 ex cock; J. Fred Townsend, R. 2, Ionia, 5 ex cock, 5 ex pen; Chas. A. Fritz, St. Johns, 3 ex hen, 3 pit-bred pen; Stanley Powell, R. 1, Ionia, 5 ex hen, 3 ex ckl; Fred Carmen, South Ionia, 4 ckl, 3 ckl-bred pen; Celestia Rasmussen, Sheridan, 5 ex ckl, 4 ex pen; J. H. Miller, Pewamo, 1-3 ex pit.

WHITE PLYMOUTH ROCKS—J. B. Miller, Pewamo, 1 cock, 1 hen.

S. L. WYANDOTTES—C. W. Browning, Portland, 1 cock, 1-2-3-4 pit, 1 pen.

WHITE WYANDOTTES—Hal D. Tanner, Ionia, 1 cock, 1-2-3-4 hen, 1-2 ckl, 1-2-3-4 pit, 1-2 pen; John Kolb, Ionia, 3 ckl.

GOLDEN WYANDOTTES—C. W. Browning, Portland, 1 cock, 2-3-4 pit; Roy Graham, St. Johns, 2 cock, 1 hen, 1 ckl, 1 pit.

PARTRIDGE WYANDOTTES—Wm. Hofs, Grand Rapids, 1 cock, 1 hen; D. Z. Brooks, Ionia, 1-3-4-5 hen; Tador Staskus, Ionia, 1 ckl, 1-2-3-4 pit, 1 pen.

COLUMBIAN WYANDOTTES—F. A. Bowen, St. Johns, 1 ckl, 1-2-3-4 pit, 1 pen.

SILVER CAMPINES—Tom Lowrey, Ionia, 1 cock, 1-2-3-4 hen, 1 pen.

S. C. MOTTLED ANCONAS—Mrs. E. B. Clement, Ionia, 1 hen, 1 ckl, 1-2 pit.

S. C. BUFF ORPINGTONS—A. Shaw, Alma, 1 cock.

SICILIAN BUTTERCUPS—Mrs. Etta Lane, Orleans, 1-2 pen.

S. C. RHODE ISLAND REDS—H. H. Siebert, Lansing, 1 cock, 1-2 hen, 1 pit; W. B. Van Vliet, Ionia, 3 hen, 3 ckl; Allan Behler, Lowell, 1 ckl, 2 pit; Bolenbaugh & Brown, Belding, 2 ckl.

R. C. RHODE ISLAND REDS—Bolen-

baugh & Brown, 1 cock, 1 hen, 2-3 ckl, 3 pit, 2-4 pen; D. O. McVeigh & Sons, R. 3, Ionia, 2 cock, 5 pen; F. T. Stevenson, Ionia, 3 cock, 3 pen; Robert Grove, R. 1, Ionia, 4 ckl, 1-4 pit, 1 pen; W. B. Van Vliet, 5 ckl, 2-5 pit.

S. C. BUFF LEGHORNS—Chas. Lockwood, Portland, 1-2 hen, 1 ckl, 1-2 pit, 1 pen.

S. C. BLACK LEGHORNS—Thos. Duffy, Ionia, 1 ckl, 1-2 pit.

S. C. WHITE LEGHORNS—Morse White Leghorn Farm, 1-2-3-4 cock, 1-2-3-4-5 hen, 1-3-5 ckl, 1-2-4-5 pit, 1-2-3 pen; Leon B. McVeigh, Ionia, 5 cock, 5 pen; Everfresh Egg Farm, Ionia, 2-4 ckl; H. C. Dougherty, Lyons, 3 pit, 4 pen.

R. C. BLACK MINORCAS—Elmer Pouch, Ionia, 1 cock, 1-2-3-4 hen, 1 ckl, 1-2-3-4 pit, 1-2 pen.

S. C. BLACK MINORCAS—J. C. King, So. Ionia, 1 cock, 1-2-3-4 hen, 1 pen; C. F. De Armand, Ionia, 1 ckl, 1-2-3-4 pit, 2 pen.

S. C. WHITE MINORCAS—R. Gilchrist, So. Ionia, 1-2-3-4 hen, 1 ckl, 1 pen; C. F. De Armand, 2 ckl, 1-2 pit.

BLUE ANDALUSIANS—Fred Carman, R. 6, 1 cock, 1 hen.

S. C. WHITE ORPINGTONS—H. G. Crandall, Ionia, 1 cock, 2-3-4-5 hen, 1-2 ckl, 2-3 pit, 1-3 pen; Leon B. McVeigh, 2 cock, 2 pen; A. R. Smith, Alma, 1 hen; Lewis Gilson, St. Johns, 3 ckl; Fred Kidd, Ionia, 1-4-5 pit.

WHITE COCHINS—R. Gilchrist, 1 hen.

SILVER SPANGLED HAMBURG—J. H. Tyson, Saginaw, 1 cock, 1 hen, 1-2-3 pit, 1 pen.

BLACK LANGSHANS—Lewis Gilson, St. Johns, 1 cock, 1 hen, 1 ckl, 1 pit.

HOUDANS—Wm. Hofs, Grand Rapids, 1 cock, 1-2-3-4 hen, 1 pen.

WHITE FAVEROLLES—J. H. Tyson, Saginaw, 1 ckl, 1-2-3-4 pit, 1 pen.

RED SUSSEX—Fred Carman, 1-2-3 pit.

W. C. BLACK POLISH—John King, So. Ionia, 1 cock, 1-2-3-4 hen, 1 pen.

BLACK COCHIN BANTAMS—Lewis Gilson, 1 cock, 1 hen.

WHITE COCHIN BANTAMS—Wm. Hofs, 1 cock, 1-2-3-4 hen, 1 pen; Tador Staskus, Ionia, 1 ckl, 1 pit.

BUFF COCHIN BANTAMS—Henry Woodrich, Ionia, 1 cock, 1-2-3-4 pit, 1 pen.

BLACK AFRICAN BANTAMS—Lewis Gilson, 1 cock, 1 hen.

R. C. BLACK BANTAMS—Wm. Hofs, 1 cock, 1 hen.

W. C. WHITE POLISH BANTAMS—Wm. Hofs, 1 cock, 1 hen.

B. B. R. GAME BANTAMS—Wm. Hofs, 1-2 cock, 1-2-3 hen.

SILVER SEBRIGHT BANTAMS—Barney Goodrich, Ionia, 1 ckl, 1-2-3 pit.

GOLDEN SEBRIGHT BANTAMS—Theron Beattie, Ionia, 1 cock, 1-2 ckl, 1-2 pit.

PLYMOUTH ROCK BANTAMS—Tador Staskus, 1 hen, 1 ckl.

JAPANESE WHITE SILKIES—Lewis Gilson, 1 cock, 1 hen.

DARK CORNISH FOWLS—R. Gilchrist, 1-2 ckl, 1-2-3 pit, 1 pen.

PEKIN DUCKS—H. C. Dougherty, Lyons, 1 drake, 1-2-3 duck, 1 pen; Mrs. Mary C. Ward, Ionia, 2 duck.

BLACK MUSCOVY DUCKS—Wm. R. Crites, R. 4 Ionia, 1 pen.

TOULOUSE GEESE—Ray Robertson, Ionia, 1 gander, 1 goose.

Rudy's Perfection

White Wyandottes

THE KIND THAT PLEASE

Come to me for pure white, broad backed Wyandottes with well spread tails and perfect head points, so much desired in this beautiful variety. I will treat you right. I can supply you with prize winners or utility birds at prices to meet your pocket-book. Don't think that my prices are beyond your means just because I have the reputation of being one of the most successful breeders of Wyandottes. My prices are reasonable, both for stock and eggs—just send for catalog—and be convinced.

I make a specialty of furnishing breeding pens for utility purposes—mated correctly—the kind that will lay the foundation for a flock of beauty—I term such matings

MY \$35.00 BREEDING PENS

I will furnish other matings and single birds at equally moderate prices. All orders receive my personal attention and all birds are carefully looked over by me before being shipped. My birds are all Farm Raised—they have true range and are milk fed, producing bone, size and vigor. 7 first prizes, 6 seconds, 7 thirds and 4 minor prizes besides special cup for best display and champion Hen, 1915. Those are my combined winnings at the last two Chicago Breeder's Ass'n shows in Jan. 1915 and in Jan. 1916. These winnings exceed the combined winnings of all competitors and should prove to the most skeptical that Rudy knows how to mate his pens. Write for my illustrated catalog—my silent salesman.



Egg orders booked now for early spring delivery. 100% fertility guaranteed.

\$5.00 for 15; \$9.00 for 30; \$15.00 for 50; \$25.00 for 100.

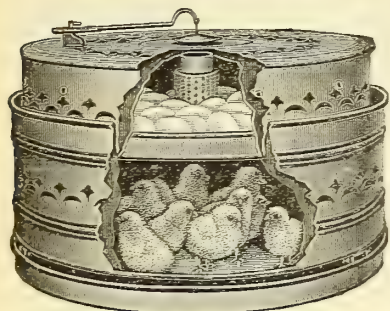
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Red and Speckled Sussex

Settings from New York and Chicago Sussex Club Winners. Write for New Mating List.

H. H. & E. M. COBURN, Red Sussex Farm, ST. CLAIR, MICH.

Well Hatched — Half Raised



Did you ever raise chickens that were hatched in a

“CYCLE”?

Brooder Hatcher Complete.....\$ 8.00
Cycle Hatcher Complete..... 6.00
Both Machines Complete..... 12.00

If not you would be surprised to see how fast they grow. That is what “Cycle” users say, not only here but in every foreign country. Read the following letters. We have thousands more of the same kind. Then send your order for a machine that will make your poultry business a success.

The following letter from Mr. Knoche refers to a shipment of Pedigree White Orpington Chickens hatched in the “Cycle” and shipped from Elmira to Des Moines, Iowa, October 26, 1915. The chickens were raised in our Brooder Coop out-of-doors and without artificial heat at the most unfavorable season of the year for raising chickens:

Des Moines, Iowa, Dec. 16, 1915. Cycle Hatcher Company. Gentlemen:—The chickens you sent me October 26th are growing very fast. Although only seven weeks old, they average nearly three pounds each. I have never taken the Brooder out of the coop and they are still using it. All who have seen them say they are beauties. Thanking you for your kindness, I am, very truly yours, F. W. Knoche.

Hastings, Penn., January 26, Cycle Hatcher Company. Gentlemen:—I am very much pleased with the Brooder Hatcher; it gave me excellent success. My chickens are thrifty and hardy and those hatched last summer are laying dandy all winter.—Isadore J. Holtz.

Cleveland, Mo., January 17th. Cycle Hatcher Company. Gentlemen:—Yours of the 10th at hand, and you have my hearty thanks for treating me so well and I appreciate your kindness. I am showing your Hatcher to my friends. It hatches so well that the young ducks come out like popping corn. Out of eighty ducks hatched, I raised seventy-seven.—Lucy Roof.

Steger, Ill., Dec. 26th. Cycle Hatcher Company. Gentlemen:—Have used Cycle Hatchers three years with excellent results. Last year we decided to enlarge our plant, and got a 200-egg machine of a leading make for trial, and after giving it a test for efficiency alongside the Cycle as a pace-maker, we returned it to the manufacturers. While the hatch was good, the condition of the chickens was not to be compared with those hatched in the Cycle, which were better by 100% in condition and appearance. Loss on Cycle hatched chicks at 3 months of age, 4%. Loss on other machine chicks at 3 months of age, 20%. Hence our decision to increase our flock by increasing the number of Cycle Hatchers.—E. J. Hawk.

REGISTERED

S. C. White Orpingtons

Why not get the best and start right with real registered poultry. We can furnish fowls and baby chicks with individual certificate and guarantee of ancestors. We have shipped baby chicks safely over a five days journey. Will guarantee safe delivery of chickens on a three days journey. We give below, copies of a few letters from our customers. We have enough more of the same kind to keep you reading a long time.

Galveston, Texas, January 23rd. Cycle Hatcher Company. Gentlemen:—Beg to advise that the little Brooder, together with the six chickens, came this morning and in fine order. They are a lively bunch and it would be my fault if they are not raised, for they are in good condition. With thanks.—V. H. Austin.

Key West, Florida, Feb. 8. Cycle Hatcher Company. Gentlemen:—Baby chicks shipped by you from Elmira, Jan. 25th, arrived here Jan. 29th in best of condition. All alive and doing fine. Will send order for more later.—J. H. Dawson.

Boonville, Ind., April 27. Cycle Hatcher Company. Gentlemen:—Two years ago this spring I purchased some White Orpington baby chicks from you. They were fine. Such good layers! Please send prices of eggs for hatching.—Miss Laura L. Baker.

The Philo System Book of Progressive Poultry Keeping

It is a masterpiece for short cuts in poultry work. It explains about **poultry secrets** and tells how to make the business a success from the beginning. Nearly half a million sold at \$1.00 per copy, and it is still the leader. Send us 25 cents (stamps or silver) and we will send you a copy by return mail.

FIVE YEARS WITH FIRELESS BROODERS

Calgary, Alta., Canada, Sept. 25. Cycle Hatcher Company. Gentlemen:—For five years we have used the Philo System Fireless Brooders with the best success. This year we tried a Brooder Hatcher and had splendid results. I think the incubator is the easiest managed that I have ever had and I would not think of using a heated Brooder after trying your system.—Mrs. W. D. White.

I will send you by return mail the PHILO SYSTEM BOOK, my new book, “FARMING,” and three sets of COOP PLANS for \$3.00 and will give you absolutely free, SIX THOROUGHbred WHITE ORPINGTON CHICKS and BROODER. Order direct from this advertisement and I will include free of charge a package of chick food to give the PREMIUM chicks a good start. Will hold chicks for later delivery if desired. Catalog Free.

CYCLE HATCHER CO. 1708 Lake Street ELMIRA, N. Y.



AWARDS AT ZEELAND MICH. SHOW.

Jno. A. Hartgerink Secretary.

WHITE LEGHORNS—John Dekker, 1-2 cock, 1-2 hen, 1 plt, 1 pen; Q. De Vries, 1-3 ckl, 3-4 hen, 2-3 plt; Arthur Schipper, 2 ckl, 4 plt.

R. C. WHITE LEGHORNS—John Fris, 1 pen.

R. C. BROWN LEGHORNS—J. B. Veldheer, Holland, 1-2 hen, 3 pen; Jas. J. De Koster, 1-2-3-4 ckl, 1 pen; H. P. Wiersma, 2 pen.

S. C. BUFF LEGHORNS—Jas. Steffens, 1 cock; Jno. A. Hartgerink, 1 hen, 1 ckl, 1 plt, 2 pen; John Bouwens, Jr., 2-3-4 hen, 2 ckl, 3 plt, 3 pen; Alwin De Pree, 2 plt, 1 pen; Chas. Dykhuizen, 4 pen.

BUFF ROCKS—Adrian De Pree, 1 cock, 3 ckl, 2-3 plt; Ed. Glerum, 2 cock, 1-2-3-4 hen; A. S. Moore, Holland, 1-2 ckl, 1-4 plt, 1 pen.

WHITE ROCKS—Wm. D. Van Loo & Son, 1-2 cock, 2-4 hen, 1-2 ckl, 1-3 plt,

1-2 pen; Wm. Glerum, 3-4 cock; Adolph De Koster, 1 hen, 3 ckl, 2-4 plt, 3 pen.

BARRED ROCKS—Henry Marlink, 1-2 cock, 1-2 breeding pen; Wm. D. Van Loo & Son, 1 hen, 2 plt; John Stoel, Holland, 2-3 hen, 1 ckl, 1-3 plt, 1 ex. pen.

PARTRIDGE ROCKS—Herman Bekker, 1 pen.

WHITE ORPINGTONS—Wm. Dinkeloo, Holland, 1 pen.

BUFF ORPINGTONS—Jno. A. Hartgerink, 1 cock, 1 hen, 1 ckl, 1 plt, 1 pen.

ANCONAS—A. L. Elenhass, 1 cock, 3 hen, 1-2-4 ckl, 2-3 plt, 1 pen; Wm. Dinkeloo, 1-2 hen, 3 ckl, 1 plt.

S. C. REDS—Van De Pels, 1-2 cock, 1-2-3-4 hen, 1-2-3-4 ckl, 1-2-4 plt, 1-2 pen; C. H. Skutt, 3 plt.

BLACK LANGSHANS—M. Lookerse, 1 hen, 1 plt, 1 pen.

LAKENVELDERS—J. H. Etterbeek, 1 pen.

BLACK SPANISH—H. Van Hoven, 1 pen.

WHITE WYANDOTTES—H. Van Hoven, 1 pen.

GOLDEN WYANDOTTES—M. Langius, 1 cock, 1-2 hen, 1-3 ckl; Gerrit Rozema Grand Rapids, Mich., 2 ckl.

SILVER LACED WYANDOTTES—Jacob J. De Koster, 1-2 hen, 1 ckl, 1 plt.

BUFF WYANDOTTES—Garret Rozema, Grand Rapids, Mich., 1 cock, 1-2-3 hen, 1 plt.

R. C. REDS—Geo. De Jonge, 1-2-3-4 hen.

BANTAMS—Martin De Jonge, 1 ckl, 1 plt.

AWARDS AT HOOPESTON, ILL., SHOW.

E. J. Keister, Secretary.

WHITE ROCKS—R. J. Parks, 1-3-4 cock, 1-2-3-4 hen, 1-4 ckl, 1-2-4 plt, 1-2 pen; Wm. Campbell, 3 hen, 3-4 pen.

WHITE WYANDOTTES—Jay Fleming, 3 cock, 4 pen; Thos. Hass, 4 cock, 1-2 hen, 1-2 plt, 2-3 pen; Mrs. Jennie Erickson, 3-4 hen, 1-2-3 ckl, 3-4 plt, 1 pen.

BLACK LANGSHANS—Dan Johnson, 1-2-3-4 hen, 1 ckl, 1-2-3-4 plt, 1-2 pen.



CHICAGO KING, 1st Prize Cockerel, Chicago Coliseum, Dec., 1914, (class of 45.) Special for Whitest Male (71 in the class.)

Rogers' Single Comb White Leghorns

made a most wonderful win at this, one of the largest and greatest White Leghorn shows ever held in America, in competition with the premier breeders of this country, won **First and Fifth Prize Cockerel at Chicago Coliseum, 1914**, (class of 45), 44 of the best cockerels my competitors could produce went to defeat before the matchless beauty of "Chicago King," also won second prize cock at this great show.

Imported direct from Tom Barron, England, a pen of his wonderful layers. Write your wants. Beautiful 32-page illustrated catalog free. **Eggs for Hatching, Stock and Day-Old Chicks** from Chicago winners and Tom Barron strain.

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LIGHT BRAHMAS—Gilbert Honeywell, 1-2 hen, 1 ckl, 1-2 plt, 1 pen.
BUFF ORPINGTONS—Knox & Bell, 1-2-3-4 cock, 3-4 hen, 1 ckl, 1 plt, 1-3 pen; W. H. Johnson, 1 hen, 2-3 ckl, 4 plt, 2 pen; Sam Smith, 2 hen, 3 plt; H. C. Keister, 4 ckl, 2 plt, 4 pen.
BUFF ROCKS—E. J. Keister, 1 cock, 4 plt, 1 pen; Thos. Haas, 1 ckl, 2-3 plt, 2 pen; M. V. Kreager, 1 plt.
SINGLE COMB REDS—E. A. Simpkins, 1 hen, 1 ckl, 1-2-3 plt, 1 pen; M. V. Kreager, 4 plt.
R. C. REDS—W. J. Willis, 1 cock, 1-2-3-4 hen, 1-2-3-4 ckl, 1-2-3-4 plt, 1 pen.
TOULOUSE GEESE—H. Southwick, 1-2.
PEKIN DUCKS—H. Southwick, 1-2.

AWARDS AT AUDITORIUM POULTRY SHOW, MILWAUKEE, WIS.

BARRED PLYMOUTH ROCKS—W. W. Henderson, Bridgeton, Mo., 1 exh cock, 1-3 exh hen, 2 exh ckl, 1-2 exh plt, 1 exh pen, 1-2 ckl-bred hen, 1-3 ckl-bred plt, 2 ckl-mated pen, 1 plt-bred cock, 1-5 plt-bred ckl, 1 plt-bred pen; R. H. Tegan, Albany, Wis., 2 exh cock, 2 exh hen; F. D. Tindall, Waterford, Wis., 3 exh cock, 5 exh ckl, 5 exh plt; R. D. Warner, Whitewater, Wis., 4 exh cock, 4 exh hen; Mrs. Henry Danisch, 1484 Humboldt Ave., Milwaukee, Wis., 5 exh cock; Thos. V. Nessling, 1201 12th St., Milwaukee, Wis., 5 exh hen; Mrs. O. V. Daniels, Antigo, Wis., 1 exh ckl; Fred Bowers, Woodstock, Ill., 3-4 exh ckl, 3 ckl-bred hen, 2 ckl-bred plt, 1 ckl-mated pen; W. H. Eldridge, Plymouth, Wis., 3-4 exh plt, 3 plt-bred ckl; L. B. Stevens, 2 plt-bred ckl; Fred A. Thiele, R. F. D., No. 12, No. Milwaukee, Wis., 4 plt-bred ckl; Wm. Hess, Antigo, Wis., 1 plt-bred pen.

WHITE PLYMOUTH ROCKS—J. F. Riemer, Fairwater, Wis., 1 cock, 1-3-5 hen, 1-2-4 ckl, 1-2-3 plt, 1 yng pen; H. A. Thiele, 2 cock; F. Zacher, Wauwatosa, Wis., 3 cock, 2-4 hen; Mrs. H. C. Rogers, R. F. D., No. 6, Oshkosh, Wis., 4-5 cock; E. A. Brown, Lake Beulah, Wis., 3 ckl, 2 yng pen; Arthur E. Lemieux, 4539 N. St. Louis Ave., Chicago, Ill., 5 ckl, 4 plt; Chas. L. Thomas, 932 N. Cambridge Ave., Milwaukee, Wis., 5 plt.

BUFF PLYMOUTH ROCKS—Frank W. Kramer, Fort Atkinson, Wis., 1-2 cock, 1 hen, 3 ckl, 3 plt; Linneman Bros., Waterford, Wis., 2-3 hen, 1 ckl, 1 yng pen; Arthur Buening, Whitewater, Wis., 2-4 ckl, 1-2 plt.

PARTRIDGE ROCKS—C. J. Lloyd & Son, Greensburg, Ind., 1-3 cock, 1-2 hen, 1-2 ckl, 1-3 plt, 1 yng pen, 1 old pen; E. J. Wagner, Arlington, Wis., 2 cock, 5 hen, 5 ckl, 5 plt; A. V. Buth, Sullivan, Wis., 4 cock, 2 yng pen; H. G. Jackson, Mineral Point, Wis., 3-4 hen, 3-4 ckl, 2-4 plt; Cedarburg Poultry Yards, Cedarburg, Wis., 2 old pen.

BUFF WYANDOTTES—H. G. Rohde, R. F. D., No. 1, Nekosha, Wis., 1 cock; F. L. Johns, Platteville, Wis., 1 hen, 2 ckl, 2 plt; James Livingstone, R. F. D. No. 8, Box 240, Milwaukee, Wis., 2 hen, 3 ckl; Chas. D. Love, 210 McCall St., Waukesha, Wis., 1 ckl, 1 plt.

SILVER WYANDOTTES—J. F. Chapman, Whitewater, Wis., 1 cock, 1 hen; A. & E. Tarbox, Yorkville, Ill., 2-4 cock, 2-4 hen, 1-2 ckl, 1-2 plt, 1 yng pen, 1 old pen; G. B. Stannard, Lake Geneva, Wis., 3 cock, 4 ckl, 5 plt; R. J. Porter, Mukwonago, Wis., 5 cock, 3 hen, 3 ckl, 4 plt; George Beckman, Ixonia, Wis., 5 hen, 3 plt.

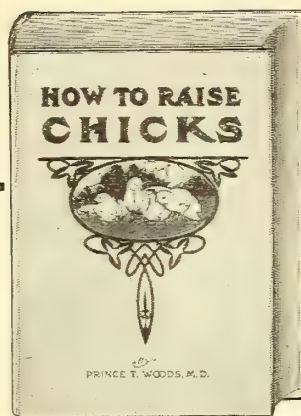
WHITE WYANDOTTES—Frank E. Hering, South Bend, Ind., 1-5 cock, 1-2 hen, 1 ckl, 1-2 plt, 1 old pen; Ralph L. Buell, Mukwonago, Wis., 2 cock; Wm. J. Battels, 575 Crosby St., Akron, O., 3 cock; Chas. W. Prei, Waukesha, Wis., 4 cock, 3 hen, 3-4-5 ckl, 2 yng pen, 2 old pen; A. W. Rahr, Whitefish Bay, Wis., 4 hen; W. A. Peterson, 1578 N. Seminary St., Galesburg, Ill., 5 hen, 3 yng pen; W. T. Magnusen, Fond du Lac, Wis., 2 ckl, 3-5 plt; Miss Clara I. Barker, Brookfield, Wis., 4 plt; Fred Leveque, 1 yng pen.

GOLDEN WYANDOTTES—Chas. D. Love, 210 McCall St., Waukesha, Wis., 1 cock, 1 hen, 1 ckl, 1 plt, 1 yng pen.

PARTRIDGE WYANDOTTES—C. C. Neal, Mineral Point, Wis., 1 cock, 1 hen, 4 ckl; Geo. B. Ritchfield, Bangs, O., 2 cock, 2-3 hen, 1-2-3 ckl, 1 plt, 1 old pen; Michael Albert, 2617 Vilet St., Milwaukee, Wis., 2-3 plt.

S. C. RHODE ISLAND REDS—Dr. C. W. Barrett, 561 Stratford Place, Chicago, Ill., 1 cock, 5 plt, 2 yng pen, 1 old pen; W. E. Grueling, 909 E. 42d St., Indianapolis, Ind., 2 cock, 5 yng pen; Greuter & Reynolds, Burlington, Wis., 3 cock, 2 ckl; Geo. Demlow, Libertyville, Ill., 4 cock, 1-5 hen, 1 ckl, 2 plt; James E. Greenwald, 5 cock, 4 ckl, 4 yng pen; A. J. Topp, Waterford, Wis., 2 hen; Pabst Stock Farm, Oconomowoc, Wis., 3-4 hen, 3 plt; Chanticleer Farm, Oconomowoc, Wis., 3-5 ckl, 1 plt; C. C. Dibley & Son, Wolverton, Minn., 4 plt; Wm. Wichern, Baraboo, Wis., 1 yng pen; C. E. Copeland, Jefferson, Wis., 3 yng hen.

R. C. RHODE ISLAND REDS—J. H. Carpenter, M. D., Glen Ellyn, Ill., 1 cock, 1 hen, 2 ckl, 3 plt; Frank S. Hill, 4170 N. Pa. St., Indianapolis, Ind., 2 cock, 2-3 hen, 1-3-4 ckl, 2-4 plt; Mrs. J. H. Pierce, Waukatosha, Wis., 5 ckl, 1 plt; E. D. Waters, Whitewater, Wis., 1 yng pen; F. C. & Mrs.



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again win at Madison Square Garden, New York, 1916, 1-2-4 Cocks; 1-3-4 Cockerels; 1-2-3 Pullets; 1 pen and all specials. For many years we have been consistent winners at the "Garden"—this is but a repetition of former years. While they last, 30 A-number one Cockerels at prices that are right. Eggs from six grand matings.

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AT CHICAGO January, 1916, won 1st Cock, 1st Hen, 1st and 2nd Pullet, 2d Cockerel on 5 entries. First prize winners the last eight consecutive years at Minneapolis, St. Paul and Minnesota State Fair. Stock on approval always. Mating list free. S. E. FERTIG, 467 Fuller Ave., ST. PAUL, MINN.

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Stock and eggs for sale from our prize winning strains. White Rocks, Black Langshans, Anconas, Eggs only from Black-Tailed White Japanese Bantams, Mille Fleurs, Silkies and Tom Barron - best strain White Leghorns and White Wyandottes. Mailing list now ready.

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White Indian Runner DUCKS

The Sensation of the water fowl department of the Madison Square Garden show. Their style and carriage is perfection. Here they won cock 1-3, hen 1-2, cockerel 1-2, pullet 1-2. All specials. Write us your wants. Satisfaction assured—none better—

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F. L. DEER - Franklin, Ind.

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Krueger, Charles City, Ia., 2 yng pen; Geo. H. Prest, Wauwatosa, Wis., 3 yng pen.
AMERICAN DOMINQUES—John Blanchard, Columbus, Wis., 1 cock, 1 hen; H. M. Shepard, Columbus, O., 1 ckl, 1 plt; C. E. Judson, Wauwatosa, Wis., 1 yng pen.
LIGHT BRAHMAS—C. C. Dibley & Son, 1-2 cock, 2-3-4 hen, 1-2-3 ckl, 2-3-4 plt; Geo. C. Johnson, Oconomowoc, Wis., 1 hen, 4 ckl, 1 plt; Geo. Jenck, Jr., Mineral Point, Wis., 5 ckl.

BLACK LANGSHANS—Walter Rieger, 1205 Maiden Lane, Milwaukee, Wis., 1 cock, 2 hen; Geo. Cook, Racine, Wis., 2-3 cock, 1-3-4 hen, 1-2 ckl, 1-3 plt; Dr. B. B. Howell, 3 ckl, 2 plt; O. C. Steingraeber, Jefferson, Wis., 1 old pen.

S. C. WHITE LEGHORNS—Pabst Stock Farm, 1-3 cock, 1 ckl, 4-5 plt, 3 yng pen, 1 old pen; Geo. E. Greenwood, Lake Mills, Wis., 2 cock, 1 hen, 2 ckl, 2 yng pen; J. H. Durfee, 317 N. Baldwin St., Madison, Wis., 4 cock, 2 hen, 4 ckl, 1 yng pen, 2 old pen; Sunny Hill Poultry Farm, West Allis, Wis., 5 cock, 4 hen, 5 ckl; G. B. Schmidt, 902 S. 15th St., Sheboygan, Wis., 3-5 hen, 3 ckl, 1-2-3 plt; Mrs. G. C. Rasch, Springbrook Farm, Burlington, Wis., 4 yng pen; Geo. J. Wendt, 790 Bufum St., Milwaukee, Wis., 5 yng pen.

R. C. WHITE LEGHORNS—Mrs. John Wolf, Merrifield, N. D., 1 cock, 1-2-4 hen, 1-2-4 ckl, 1-2-3-4 plt, 1 yng pen; Mrs. H. C. Rogers, 2 cock, 3 hen, 3 ckl, 5 plt, 2 yng pen.

S. C. BROWN LEGHORNS—Wm. Bell, Arlington, Wis., 1 cock, 1 hen, 2 ckl, 4 plt;

HQUDANS—W. H. Hunt, 426 W. Wilson St., Madison, Wis., 1 cock, 1-2 hen, 1 ckl, 1 plt; Buckstaff Farm, Oshkosh, Wis., 2 cock, 2 ckl, 2 plt.

BUTTERCUPS—Dr. M. A. Hansen, Osage, Ia., 1 cock, 1 hen, 2 ckl, 2 plt; H. D. Gilman, Plymouth, Wis., 1 ckl, 1-3 plt; Andrew L. Malsch, Lake Geneva, Wis., 3 ckl; Wm. Freise, 521 N. 10th St., La Crosse, Wis., 4-5 plt.

SILVER CAMPINES—Julius O. Bossman, Horicon, Wis., 1-2 cock, 1 hen, 3 ckl, 1-2-3-5 plt, 1-2 yng pen; A. & E. Tarbox, 2-3 hen, 1-2 ckl, 4 plt, 3 yng pen; Alfred Bauman, 1321 Booth St., Milwaukee, Wis., 4 yng pen.

S. C. BLACK MINORCAS—D. Didrikson, Whitewater, Wis., 1-2-3 cock, 2-4-5 hen, 1-2-3 ckl, 1-2-3 plt, 1 yng pen, 1 old pen; John Kohl, 1173 Eleventh St., Milwaukee, Wis., 1-3 hen, 5 ckl; W. E. Schultz, Sheboygan, Wis., 4 ckl, 4 plt; Mrs. Henry Danischewsky, 1484 Humboldt Ave., Milwaukee, Wis., 2 old pen.

R. C. BLACK MINORCAS—O. C. Steingraeber, Jefferson, Wis., 1 cock, 2 ckl; Geo. E. Greenwood, 1-2 hen, 1 ckl.

CALUMETS—U. J. W. Page, Elkhorn, Wis., 1-2-3 hen, 1-2 plt.

BLACK SUMATRAS—James A. Daly, Mohawk, Mich., 1 cock.

BUFF MINORCAS—Edward F. Kleczka, R. F. D. No. 4, West Allis, Wis., 1 cock, 1-2 hen, 1 ckl, 1-2 plt.

GOLDEN POLISH—Jos. Kwasniewski, 654 Becher St., Milwaukee, Wis., 1 old pen.



S. C. White Leghorn, first cockerel at Buffalo, 1914; first cock at Grove City, 1915. Owned by Rosemount Farms, Franklin, Pa.

Herbert F. Moeller, Laporte, Ind., 2 cock, 4-5 hen, 1-3 plt; A. M. McLain & Son, Whitewater, Wis., 2-3 hen, 1-3 ckl, 2-5 plt.
S. C. BUFF LEGHORNS—Wm. Bell, 1 cock, 4 hen, 1 ckl, 1 plt.

S. C. BLACK LEGHORNS—Wm. Bell, 1 hen.

S. C. ANCONAS—O. E. Parsons, Wauwatosa, Wis., 1 hen, 1 plt; Roy B. Case, Green Bay, Wis., 2 hen, 2 plt, Arthur McGill, Whitewater, Wis., 1 yng pen.

SILVER SPANGLED HAMBURG—Walter A. Gennrich, 1237 Richard St., Milwaukee, Wis., 1-2 cock, 1 hen.

LAKENVELDERS—Walter A. Gennrich, 1 ckl.

S. C. BUFF ORPINGTONS—E. L. Bemis, Fond du Lac, Wis., 1 cock, 1 hen, 1-2 ckl; Wm. D. Kimball, Pine River, Wis., 2 cock, 3-4 hen, 3 ckl, 1-3 plt; J. R. Alexander, 819 Harrison St., Beloit, Wis., 3 cock, 4 ckl, 4 plt; J. R. Love, Waukesha, Wis., 2 hen; Wm. H. Gourkee, 832 45th St., Milwaukee, Wis., 2-5 plt.

S. C. WHITE ORPINGTONS—Maplelawn Poultry Yards, 1 cock, 2 hen; Geo. H. Edwards, 2-3-4 cock, 1 hen, 5 ckl, 1-2 plt, 1 yng pen, 1 old pen; Novak Poultry Yards, R. F. D. No. 1, Racine, Wis., 3-4 hen; Wm. Wrigley, Jr., 5 hen; John F. Marvin, 2807 Wright St., Milwaukee, Wis., 3 plt; E. C. Angle, 1055 S. Henderson St., Galesburg, Ill., 2 yng pen.

S. C. BLACK ORPINGTONS—R. E. Krause, Antigo, Wis., 1-2 hen, 1 ckl, 1-2 plt; Wm. H. Gourkee, 2 ckl, 3 plt; F. J. Albrecht, Watertown, Wis., 1 yng pen.

S. C. BLUE ORPINGTONS—Fred Rau, Grand Hotel, Indianapolis, Ind., 1-2 cock, 1-2 hen, 1-2 ckl, 1-2 plt, 1 old pen.

RED SUSSEX—A. & E. Tarbox, 1-2 ckl, 1-3 plt; Ziegler & Eldridge, Plymouth, Wis., 2 plt.

SPECKLED SUSSEX—F. M. Gench, Omro, Wis., 1 cock, 1 hen, 3 ckl, 2-3-4-5 plt; A. & E. Tarbox, 1-2 ckl, 1 plt.

SPECIALTY CLUBS AND SHOWS.

The election of officers of the Red Breeders' Club of the World was held at the annual club meeting, Milwaukee, Wis., January 24th, and the following officers elected: President, Dr. J. H. Carpenter, Glen Ellyn, Ill.; first vice president, R. V. Hicks, Brown's Mill, N. J.; second vice president, H. De Witte, Oconomowoc, Wis.; secretary-treasurer, F. E. Harrison, Menominee, Mich. The new Year Book has just been issued and is sent free to each member whose dues are paid. The next meeting of the club will undoubtedly be at Pittsburg, Pa. Upwards of \$200 has already been subscribed by enthusiastic boosters for this meeting. Any information in regard to the club will be given by F. E. Harrison, secretary-treasurer, Menominee, Mich.

The 1916 Year Book of the Rhode Island White Club of America, which is sent free to all club members is now ready to mail. All information in regard to the club will be given by Mrs. S. B. Vertrees, secretary-treasurer, Cecilia, Ky.

The United Ancona Club recently elected the following officers: President, J. O. Somers, Bedford, O.; first vice president, Geo. W. Cisco, Patterson, N. J.; second vice president, C. A. Martin, Derry, N. H.; secretary, R. W. Van Hoesen, Franklinville, N. Y.; treasurer, F. C. Stier, Cleveland, O.; auditor, Wm. S. Rathbun, Jamestown, N. Y. The annual club Year Book is now being compiled. Copy will be sent free to all members by addressing the secretary.

At the meeting of the American S. C. Brown Leghorn Club held recently, H. V. Tormohlen, Portland, Ind., was elected president. Noel Hall, Harrisonville, Mo., has been appointed secretary in place of J. H.

Henderson, who resigned. The annual catalog is now being compiled and will be sent free to all members by addressing the secretary.

Show secretaries throughout the country will please note that the eighth annual exhibition of the Great Mid-West Poultry and Pet Stock Assn. will be held at the Coliseum, Chicago, Dec. 13-18, 1916, opening on Wednesday, following the close of the Palace Show in New York and closing the following Monday night. The following judges have been selected: Kummer, Tucker, Rawnsley, Wells, Hackett, Whitney, Pierce, Keeler, Johnston and Rikhoff. Others will be announced later. Please protect these dates. Theo. Hewes, secretary, Indianapolis, Ind.

The second annual exhibition of the Auditorium Poultry Show will be held in Milwaukee, January 18-27, 1917. The following judges have been selected: Hackett, Wells, Greenwood, Greenwald, Pierce and Tucker. Theo. Hewes, secretary-treasurer, Indianapolis, Ind.

The Dominique Club recently elected the following officers: President, A. Q. Carter, Freeport, Me.; vice president, S. F. Yerkes, Mt. Airy, P. O. Philadelphia, Pa.; secretary-treasurer, C. W. Besse, Jefferson, Me.

Charles D. Cleveland, secretary of the Madison Square Garden New York Show, wishes to call attention at this time to the advantage of holding the next annual meet of the National White Wyandotte Club at that show and heartily invites the members of the club to this, their 28th annual exhibition to be held December 29th, 1916-January 3d, 1917. Mr. Cleveland wishes to emphasize the hearty co-operation which will be extended to the club by all the officials of the Garden Show.

The annual meeting of the American White Orpington Club was held at Chicago on December 11th, 1915. A large and enthusiastic number of members attended, the following officers being elected for the ensuing year: President, O. W. Aldrich, Columbus, O.; first vice president, F. S. Bullington, Richmond, Va.; second vice president, G. H. Woolington, Monticello, Ill.; secretary-treasurer, Wm. A. Stoltz, Indianapolis, Ind.

The Indianapolis South Side Poultry Assn. announces the following officers elected for the coming year: President, W. R. Paetzel, Acton, Ind.; vice president, C. L. Ferguson, Indianapolis, Ind.; secretary, G. C. Ott, Indianapolis, Ind.; treasurer, J. G. Hornung, Indianapolis, Ind.

At the meeting recently held by the Cleveland Poultry Breeders' Assn., Cleveland, O., the following officers were elected: President, Geo. H. Poulson; first vice president, J. H. Bush; second vice president, C. E. Ackerman; secretary and superintendent, J. O. Somers; treasurer, J. B. Holmden.

CORRECTIONS.

Glad to mention that the first prize Barred Rock cock, also champion male at the Boston, 1916, Show, is owned and was exhibited by the Grove Hill Poultry Yards, Waltham, Mass. This was omitted last month, due to an error in the marked catalog.

Winnabago Bantam Yards, W. R. Lee, Prop., Oshkosh, Wis., at the Oshkosh Show, January, 1916, won all the prizes in the Buff Cochins Bantam classes, except 5th hen, which was won by Elwood Atchison, Oshkosh, Wis. All awards in the R. C. Black Bantams going to C. A. Barker, Oshkosh, Wis. Thru a mistake these awards were omitted in the February number.

Also announce at this time that the Thornwood Poultry Yards and Monmouth Hatchery, C. A. Sims, Mgr., Crandall, Ind., do not breed Black Leghorns as stated in their ad in the February issue. This should have read Brown Leghorns instead. The four varieties bred by this farm are White and Brown Leghorns, Barred Rocks and Rhode Island Reds.

In our January number, the following awards made at the Valley City, N. Dak., show were credited to E. J. Blumenshine. These prizes were all won by Mr. E. E. Lee and we are glad to give him credit for the same in this issue. White Cochins Bantams: 2 cock, 1-2 hen; R. C. Black Bantams: 1 cock, 1 hen, 1 pt; Golden Sebright Bantams: 2-3 cock, 1-2 hen; Silver Campines: 1 cock, 1 hen; Houdans: 1 cock, 1 pen, 1-2-3-4 hen. S. S. Hamburgs: 1 cock, 1-2 hen; Golden Polish: 1 hen; Fawn Indian Runners: 1 drake, 1-2 duck; Gray Call Ducks: 1 drake, 1-2 duck; Wild Mallard Ducks: 1 drake, 1 duck.



ENGLISH-LEGHORNS

5-6-7 lb. hens, 7 and 8 lb. cocks. Fertile eggs, guaranteed. Trap-nested and Pedigreed Stock.

WILLIAM B. WHITNEY.

Importer and Breeder

Marlborough, N. Y.

Harnly's Quality White Orpingtons World's Champions

Won Championship White Orpington male two years in succession, on different males (these cocks now head two of my best pens). Championship White Orpington male, Chicago Coliseum Show, December, 1914, (defeating the 1914 and 1915 Madison Square Garden first prize winners). Grand Championship White Orpington male at Panama-Pacific International Exposition (competing with the whole world).

At the World's Fair Won the Highest White Orpington Honors

Grand Championship White Orpington male, American Poultry Association medal, California. White Orpington Club special, first prize pen (five birds taking first prize, no other White Orpington breeder had more than one bird win first place), second hen (55 competing), 2nd and 7th pullet, 3rd cock (one only competing) won in each class I competed.

From September 1st, 1914, to September, 1915, won 127 premiums at big shows, 44 first prizes. Some magnificent stock for sale. Start right this season. Get bred-to-lay stock that will produce winners. EGGS—Book your orders now so that you will not be disappointed.

FERTILITY GUARANTEED. FREE CATALOGUE.

REWARD OFFERED—At San Francisco my registration books, containing the addresses of hundreds of visitors interested in my exhibit, to whom I had promised catalogs, were stolen. Any help in the regaining of this property will be rewarded.

Mrs. J. H. Harnly, 2304 Elisha Ave., Zion City, Ill.



QUEEN KATHERINE III
A winning Boston Pullet, 1916

Grand Champion IVANHOE

Has proven his title by winning 1st Cock, Shape Special and Champion Male at Boston, 1916. In competition with 90 Barred Rock males shown by 25 exhibitors (4 more birds than the entire open class at Madison Square Garden this season). Three places on cockerels, two places on pullets, four places on pens. This, with Grand Champion Cock, makes us the highest or largest winner in these three classes.

At Madison Square Garden, three first prizes and best display in competition with international winners on Single Comb Brown Leghorns.

A few eggs for hatching. Send for new mating list.

GROVE HILL POULTRY YARDS
Box 555, Waltham, Mass.

WM. E. BRIGHT, Prop.

F. G. COOK, Supt.

Walton's Partridge Wyandottes

Trap-Nested for BEAUTY and UTILITY

won every 1st at Fargo, Minot, Valley City, Dickinson, Minneapolis, St. Cloud; and three birds won 1st Cockerel, 1st and 2nd Pullet at St. Paul—winning a total of 34 1sts, 22 2nds, 20 3rds, 11 4ths, 2 5ths; sweepstakes, specials and badges too numerous to mention.

Send for Mating List Eggs, \$5.00 and \$3.00 per 15 Stock in Season

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From FOGG'S S. C. WHITE LEGHORNS

will produce you profitable layers and birds of high quality.

Safe delivery of chicks and eggs guaranteed.

Eggs guaranteed 90 per cent fertile. Send for mating list today.

N. V. FOGG - Box R - Mt. Sterling, Ky.

WHITE WYANDOTTE WINNERS

Exhibition and high class layers. Winners 1915-1916 Kansas City, Mo., 1-2-3 cock, 2-4 hen, 5 pullet; best display. Omaha Neb., 2-3 cock, 2 pen, 3 hen. Eggs for hatching. Send for free mating list.

DR. C. F. LIEGECOT, Red Oak, Iowa.

Barred Rocks, Black Langshans, Light Brahmas

Over 60 prizes won this season at 4 leading Ohio shows, including the Forest City Exposition and Cleveland Winter Show. Eggs for hatching from our finest exhibition matings, \$2, \$3, and \$5 per setting.

MOORELAND POULTRY FARMS - MENTOR, OHIO

See ad p. 449 of "A Revolution in Egg Production"



"Chicago King," first prize cockerel Chicago Coliseum, 1914. Special for whitest male (class of 71), conceded to be one of the greatest White Leghorn males shown to date. Owned by F. D. Rogers, Elgin, Illinois.

WINNINGS of A. P. J. ADVERTISERS

Under this heading will be given each month, during the show season, the winnings made by our advertisers, at the various shows, as reported by them.

Morse's White Leghorn Farm, Belding, Mich., White Leghorns at Ionia, Mich., Dec., 1915: 1-2-3-4 cock, 1-2-3-4 hen, 1-3-5 ckl, 1-2-3-5 plt, 1-2-3-4 pen; two specials. At Grand Rapids, Mich., Jan., 1916: 1-3 cock, 1-2 hen, 1-2-5 ckl, 2-5 plt, 2 pen; special for best male in Mediterranean class.

Bower-Knoll Farm, Olney, Ill., S. C. Anconas at Illinois State Fair, Sept., 1915: 1-2-3 cock, 1-2-3 hen, 3-4 ckl, 2 plt, 1-2 yng pen, 2 old pen. Judge, Theo. Hewes. At St. Louis, Mo., Agricultural Fair, Oct., 1915: 1-2-3 cock, 1-2-3 hen, 1-2-3 ckl, 1-2-3 plt, 1-2 pen. Judge, Theo. Hewes. At the Panama-Pacific Exposition, San Francisco, Cal., Nov., 1915: 8 hen, 7 pen. At Olney, Ill., Dec., 1915: 1-2-3 cock, 1-2-3 hen, 1-2-3 ckl, 1-2-3 plt, 1-2-3 pen; several specials. On R. C. Anconas at Olney, Ill., Dec., 1915: 1 cock, 1-2-3 hen, 1-2-3 plt, 1 pen. Judge, D. E. Hale. On S. C. Anconas at Mt. Carmel, Ill., Dec., 1915: 1-3-4 cock, 1-2-3 hen, 2-3-4 ckl, 3 plt, 1-2 pen; specials. On R. C. Anconas at Mt. Carmel, Ill., Dec., 1915: 1 cock, 1-2-4 hen, 1 plt, 1 pen. Judge, Geo. Northup. On S. C. Anconas at the Greater Chicago Show, Jan., 1916: 2 cock, 1-3 hen, 1-2 ckl, 3 plt, 1 yng pen, 1 old pen. On R. C. Anconas at the Greater Chicago Show, Jan., 1916: 2 cock, 1-2 hen. Judge, Platt.

Louis H. Perry, Clay, N. Y., R. C. White Leghorns at Madison Square Garden, N. Y., Dec., 1915, to Jan., 1916: 2 cock, 2 ckl. At Rochester, N. Y., Jan., 1916: 4-6-7-9 cock, 4-7-8 hen, 3-6-7 ckl, 2-3-9 plt, 1 yng pen, 1 old pen; special for best display.

George Taylor, R. R. No. 11, Urbana, Ill., White Wyandottes at Danville, Ill., Dec., 1915: 1-2-3 cock, 1-2-4 hen, 1-2-3 ckl, 1-2-3 plt, 1-2 pen; all specials. At Peoria, Ill., Jan., 1916: 1 hen, 1 yng pen, 1 old pen, best shaped and colored champion female. At Decatur, Ill., Jan., 1916: 1-4-5 cock, 2-4 pen.

Mrs. Tella Watts, Square Deal Poultry Farm, West Concord, Minn., S. C. Black Minorcas at Minneapolis, Minn., Jan., 1916: 2 cock, 1-3 hen, 1-3-5 ckl, 2 plt, 1 old pen.

C. C. Nye, Harristown, Ill., Light Brahmas at Decatur, Ill., Jan., 1916: 2-3 cock, 1-2-4-5 hen, 2-3-4-5 ckl, 1-2-4-5 plt, 1-2 pen; special for best shaped and colored male

S. C. Anconas Certified Layers

weight. They are dark yellow shanked, black winged, perfect show birds, except in size and shape. These hens as a flock average 270 eggs a year, and we have five hens with records of 290 and over.

Eggs for hatching sold on the square deal plan of ten guaranteed fertile eggs in each setting. Baby chicks with pedigree bands, so you can start where we stopped, and a nine-year certificate of breeding and record laying goes with every adult fowl sold. Trap nests. Baby Chicks. Guaranteed fertile eggs at \$2.00, \$3.00 and \$5.00 per fifteen. Mention A. P. J.

Northern raised. Twenty degree below zero layers. Bred from nine years of trap nest records. The hens average six pounds each in

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Saratoga Springs, New York

and female, all club and other specials. On Rouen ducks at Decatur, Ill., Jan., 1916: 1-2 cock, 1-2-3-4 hen, 2-3 ckl, 2-3 plt, 1 pen; specials. Judge, Chas. McClave.

A. E. Tarbox, Yorkville, Ill., Silver Laced Wyandottes at the Panama-Pacific Exposition, Nov., 1915: 1-3 cock, 2-3 hen, 2-3 ckl, 3-6 plt, 2 pen; champion male and other specials. At Quincy, Ill., Nov., 1915: 1-2 cock, 1-2 hen, 1-3 ckl, 1-2 plt, 1 pen; special for best display and all shape and color specials. At Chicago Coliseum, Dec., 1915: 1-2 cock, 1-3 hen, 1-3 ckl, 1-2 plt, 1 yng pen, 1 old pen, best display. At Lake Charles, Louisiana, Dec., 1915: 1-2 cock, 1-2 hen, 1-2-3 ckl, 1-2-3 plt, special for best display and other specials. At Madison Square Garden, Dec., 1915, to Jan., 1916: 2 hen, 3-5 ckl, 2 pen, specials. At the Illinois State Show, De Kalb, Ill., Jan., 1916: 1-2 cock, 1-2 hen, 1-2 ckl, 1-2 plt, 1 yng pen, 1 old pen; champion, shape and color specials on male and female, also other specials. At Milwaukee, Wis., Jan., 1916: 2-1 cock, 2-4 hen, 1-2 ckl, 1-2 plt, 1 yng pen, 1 old pen; best display. On Speckled Sussex at Chicago Coliseum, Dec., 1915: 3 cock. On Red Sussex: 3 cock, 3 ckl, 4 plt. On Speckled Sussex at the Illinois State Show, De Kalb, Ill., Jan., 1916: 1-2 ckl, 2-3 plt. On Red Sussex: 1-2 ckl, 1-2 plt; champion color and shape specials on Speckled Sussex male and Red Sussex female. On Speckled Sussex at Milwaukee, Jan., 1916: 1-2 ckl, 1 plt. On Red Sussex: 1-2 ckl, 1-3 plt.

Mount Air Farm, Powell, Ohio, White Orpingtons at Detroit, Mich., Feb., 1916: 3-4 cock, 1-2 hen, 1-2-3 ckl, 1-2-3 plt, 1-3 pen; silver cup for best display and other specials.

Grove Hill Poultry Yards, Box 555, Waltham, Mass., S. C. Brown Leghorns at Madison Square Garden, Dec., 1915, to Jan., 1916: 1 cock, 2 hen, 3-5 ckl, 1 plt, 1 pen; special for best display. Judge, J. H. Drevenstedt. On Barred Plymouth Rocks at Boston, Jan., 1916: 1 cock; champion male and shape special, also many other specials.

Chas. Tucker, Maple St., Sycamore, Ill., Black Orpingtons at Belvidere, Ill., 1916: 1-2 hen, 1 ckl, special on cockerel and other specials. Judge, E. G. Roberts.

H. O. Sears, Box 6, Garden Prairie, Ill., Barred Plymouth Rocks at Belvidere, Ill., Jan., 1916: 1 cock, 1-2 hen, 1-2 ckl, 1-2 plt, 1 ckl-bred hen, 1 ckl-bred plt, 1 ckl-bred pen, 1-2 plt-bred ckl, 1 plt-bred pen, 1 exh pen. Silver cup best ten birds of the show, any variety; silver cup for best display in American class.

Chas. V. Keeler, Winamac, Ind., White Wyandottes at the Greater Chicago Show, Jan., 1916: 1-2-4 cock, 1-5 hen, 1-2-3-4 ckl, 1-5 plt, 1-3 yng pen, 2-4 old pen; silver cup for grand champion and other specials.

Frank C. Cole, Van Wert, Ohio, Buff Plymouth Rocks at Fort Wayne, Ind., Jan., 1916: 1-2-3-4-5 cock, 2-3-4 hen, 2-3-4-5 ckl, 1-4-5 plt, 1-5 yng pen; best display and other specials. Judge, H. A. Pickett.

Geo. Cooke, R. No. 1, Racine, Wis., Black Langshans at Milwaukee, Wis., 1916: 2-3 cock, 1-3-4 hen, 1-3 ckl, 1-2 plt; silver cup for best display.

K. C. Boggs, Olney, Ill., S. C. White Leghorns at Olney, Ill., Dec., 1915: 1 cock, 1-2-3 hen, 1-3 ckl, 1-2-3 plt, 1-2 pen. Judge, D. E. Hale. At Mt. Carmel, Ill., Dec., 1915: 5 cock, 2 hen. Judge, Geo. H. Northup.

C. W. Besse, Jefferson, Me., Dominiques at Boston, Mass., Jan., 1916: 2-4 cock, 1-2 hen, 1-2-3 ckl, 1-2-4 plt, 1 pen; specials for color on males and females and shape on females. Judge, Geo. W. Weed.

Geo. Taylor, R. R. No. 1, Urbana, Ill., White Wyandottes at Decatur, Ill., Jan., 1916: 1-4-5 cock, 2-4 hen. Judge, E. H. Hoffman.

Novak Poultry Yards, R. No. 1, Box 85, Racine, Wis., White Orpingtons at Wisconsin State Fair, 1915: 1-5 hen, 1-4-5 ckl, 1-2-3 plt. At Racine, Wis., Jan., 1916: 1-2-3-4 cock, 1-2-3-4 hen, 1-2-3-4-5 ckl, 1-2-3-4-5 plt, 1 pen; silver cup for best display, other specials. S. C. White Leghorns at Racine, Wis., Jan., 1916: 3 cock, 1 plt; special for best Leghorn female. White Orpingtons at Milwaukee, Wis., Jan., 1916: 3-4 hen, 1-3 ckl.

Aldrich Poultry Farm, Columbus, Ohio, S. C. White Orpingtons at Chicago Coliseum, Dec., 1915: 1-6 cock, 2-4 hen, 1-6 ckl, 4-5 plt, 2-4 yng pen; special for best four cockerels. At Buffalo, Nov., 1915: 1-2 cock, 1-2 hen, 1-2 ckl, 1-2 plt, 1 yng pen, 1 old pen, specials. At Allentown, Pa., 1915: 1 cock, 1 hen, 1-2-3 ckl, 1-3 plt, 1 pen. At Madison Square Garden, N. Y., Dec., 1915, to Jan., 1916: 1 ckl.

J. W. Andrews, Dighton, Mass., White Wyandottes at Boston, Jan., 1916: 1-5 cock, 1-2 hen, 1-4 ckl, 2-3-6 plt, 1 pen; special for best display. Judge, James Glasgow.

E. A. Crotser, Fulton, Mich., Partridge Plymouth Rocks at Grand Rapids, Mich., Jan., 1916: 1 cock, 1 hen, 1 ckl, 1 plt, 1 pen. S. C. Brown Leghorns at Grand Rapids, Mich., Jan., 1916: 1 cock, 1 hen, ckl, 1 plt, 1 pen; special for best Brown Leghorn male. Judge, Jas. A. Tucker.

John Grant, Richmond, Ill., White Rocks at McHenry, Ill., Jan., 1916: 1 cock, 1-2 hen; cup for best bird in class.

S. A. Tyler, West Lincoln Highway, De Kalb, Ill., White Plymouth Rocks at Illinois State Show, De Kalb, Ill., Jan., 1916: 4 cock, 1-2 hen, 2-3-5 ckl, 2 plt, 1 yng pen. Color and shape specials.

Geo. P. Sanford, State Road, Wheaton, Ill., White Wyandottes at Batavia, Ill., Dec., 1915: 1-2-3 ckl; second best bird in show. At Illinois State Show, De Kalb, 1916: 1-4 ckl.

Meadow Lawn Poultry Yards, Dept. C. D., Sand Creek, Mich., Partridge Rocks at Michigan State Fair, Detroit, Mich., Sept., 1915: 1 cock, 1-2 hen, 1-2-3 ckl, 1-2-3 plt. At the Chicago Coliseum, Dec., 1915: 3 cock, 1 hen, 1-2-3 ckl, 1-2-3 plt, 1 yng pen.

Fred A. Ruf, Crown Point, Ind., White Wyandottes at La Porte, Ind., Jan., 1916: 4 ckl, 4 pen.

Henry Scherrubel, Elgin, Ill., S. C. Buff Orpingtons at Batavia, Ill., 1915: 3 cock, 1 hen, 2 ckl, 3 plt, 1 pen. Greater Chicago Show, Jan., 1916: 5 pullet.

Lea M. Munger, R. No. 3, De Kalb, Ill., S. C. Buff Leghorns at the Illinois State Show, De Kalb, Ill., Jan., 1916: 1 hen, 1-4 ckl, 1 plt, 1 pen; champions, shape and color specials. Buff Wyandottes at Illinois State Show, De Kalb, Ill., Jan., 1916: 1-2 cock, 1 hen, 1 ckl, 1 plt, 1 pen; champions, shape and color specials.

R. E. Carr, R. No. 1, De Kalb, Ill., Black Langshans at Illinois State Show, De Kalb, Ill., Jan., 1916: 1 cock, 2 hen, 1-4 ckl, 1-2-3 plt, 1 pen; shape special and champion male and female.

Willow Tree Poultry Farm, Beverly Farms, Mass., White Wyandottes at Beverly, Mass., Dec., 1915: 1-3 cock, 1 hen, 2-3 ckl, 1-2 plt, 1 pen; all shape and color specials and other specials. Judge, Arthur A. Duston. S. C. White Leghorns at Gloucester, Mass., Dec., 1915: 2-3 cock, 2-3 hen, 1-2 ckl, 1-3 plt, 1 pen; all shape and color specials, cup for best pen in show and other specials. S. C. White Leghorns at Boston, Mass., Jan., 1916: 4 cock, 3-4 hen, 2 pen. Judge, F. W. Rogers.

Charles McClave, New London, Ohio, Light Brahmans at Chicago, Jan., 1916: 2 cock, 1-2 hen, 5 ckl, 1 plt, 1 old pen. On Toulouse geese, 1 ckl, 1 hen. On Embden geese, 1 ckl, 1 hen. On White Chinese geese, 1 ckl, 1 hen. On Brown Chinese geese, 1 ckl, 1 hen. On Rouen ducks, 1 ckl, 1 plt. On Aylesbury ducks, 1 ckl, 1 hen. On Colored Muscovy ducks, 1 ckl, 1 hen. On White Muscovy ducks, 1 ckl, 1 hen. On Black Cayugas, 1 ckl, 1 hen. On Gray Calls, 1 ckl, 1 hen.

W. E. Read, 919 N. 7th Ave., Maywood, Ill., S. C. White Orpingtons at the Proviso Show, Jan., 1916: 1-2 cock, 1 hen, 2-4-5 ckl, 4-5 plt, 1 yng pen, 1 old pen. Color specials, best display and other specials. Judge, D. E. Hale. Greater Chicago Show, Jan., 1916: 3 old pen; color special.

F. S. Clausen, Oconomowoc, Wis., Golden Wyandottes at Fond du Lac, Wis., Jan., 1916: 1 cock, 1-2-3 hen, 1-2 ckl, 1-2-3-4 plt, 1 pen; special for best display. Judge, James A. Tucker. Watertown, Wis., Dec., 1915: 1 hen, 1 ckl, 1-2 plt. Madison, Wis., Jan., 1916: 2 cock, 3-4 hen, 1-5 ckl, 4-5 plt; best colored male. Hartford, Wis., Feb., 1916: 1 hen, 1 ckl, 1-2-3 plt, 1 pen.

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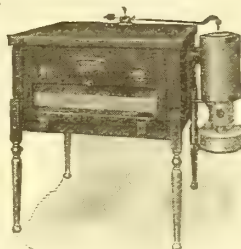
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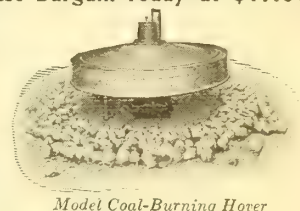
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MODEL INCUBATOR CO.

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39 BARCLAY STREET, NEW YORK, N. Y.



Grant A. Sturman, 1066 Cherry St., Mt. Carmel, Ill., Barred Rocks at the Greater Chicago Show, Jan., 1916: 6 exh. pen. At Chicago Coliseum, Dec., 1915: 5 exh. pen, 4 pit-mated pen.

Sunny Side Poultry Farm, Bristol, Vt., Buff Plymouth Rocks at Lebanon, N. H., Jan., 1916: 2 cock, 1-2-3 hen, 1-4 ckl, 2 pit, 1 pen; cup for best display and other specials. Judges, Harold Tompkins and Geo. W. Weed. At Boston, Mass., Jan., 1916: 6 cock, 4-6 ckl. Judge, A. O. Schilling.

H. C. & C. W. Sixt, Whitecrest Farm, West Park, Ohio, S. C. White Leghorns at Cleveland, Ohio, Jan., 1916: 2-4 hen, 5 ckl, 1-2 pit, 3 yng pen, 1 old pen; cup for best display Leghorns and cup for best display in Mediterranean class. Judge, Gault. On Wyandottes at Cleveland, Ohio, Jan., 1916: 1-3 hen, 1 ckl, 4 pit, 2 yng pen, 2 old pen. Cup for best display of Wyandottes and cup for best cock, hen ckl and pit. Judge, Emch.

Saunders & Williams, Ingersoll, Ont., Can., White Wyandottes at Detroit, Mich., Jan., 1916: 1 cock, 1 hen, 1 ckl, 1 pit, 1 pen; best ckl in American class. Judge, Wise. On Light Brahmas at Detroit, Mich., Jan., 1916: 1 cock, 1 hen, 1 ckl, 1 pit; all shape and color specials. Judge, Tucker.

Geo. H. Shoenhard, Box 17, Freeport, Ill., S. C. Rhode Island Reds at Quincy, Ill., Nov., 1915: 2 hen, 2 yng pen. At Galena, Ill., 1 cock, 1 hen, 1-2-3 ckl, 1-2-3-4-5 pit, 1 yng pen; silver cup for best display. At the Illinois State Show, De Kalb, Ill., Jan., 1916: 2 hen, 5 pit, 2-4 yng pen.

C. A. Keefer, Muskegon, Mich., Buff Orpingtons at Muskegon, Show, Jan., 1916: 1-2 cock, 1-2-3-4 hen, 1-2 ckl, 1-2-3-4 pit, 1-2 pen; all specials. White Orpingtons: 1 cock, 1-2-3-4 hen, 1 pen; all specials. Spec-kled Sussex: 1-2-3 hen, 1-2 ckl, 1-2-3-4 pit, 1 pen; specials. Judge, George H. Northup.

Payne Bros., Portland, Conn., R. C. Rhode Island Reds at Boston, Mass., Jan., 1916: 2-4 cock, 2-6 hen, 2-4-5 ckl, 6 pit, 1-3 pen; special for best pen and best display. Judge, I. W. Bean. At Springfield, Mass., Nov., 1915: 1-2 cock, 5 hen, 1-2-3-5 ckl, 2-4 pit, 1-2 pen; special for best display. Judge, Coffin.

Joseph Mazelin, Berne, Ind., S. C. White Leghorns at Fort Wayne, Ind., Jan., 1916: 1-4 ckl, 1-3 pit; best ckl and pit. Judge, Geo. H. Northup. At Indianapolis, Ind., Jan., 1916: 2 ckl, 3-4 pit. Judge Frank Conway. At Berne, Ind., Jan., 1916: 1-3-4 ckl, 1-3-5 pit, 1-3 yng pen. Judge, B. O. Swaim.

Milan C. Astle, Momence, Ill., Buff Plymouth Rocks at Kankakee, Ill., Jan., 1916: 1 hen, 1 ckl, 1-2-3 pit, 1 pen. At Chicago, Ill., Jan., 1916: 2 ckl, 1 pit. Judge, Johnston.

J. C. Kern, 66th and Virginia Ave., Kansas City, Mo., Buff Orpingtons at Kansas City, Mo., Jan., 1916: 1-4 cock, 1-2-4 ckl, 1-2 pit, 3 pen; color special and silver cup for best display.

Jessie F. Gordon, Spring Valley, Minn., Black Orpingtons at Fargo, N. D., Jan. to Feb., 1916: 1 cock, 1 hen, 1 ckl, 1-2-3 pit. Judge, E. G. Roberts.

C. L. Woodward, Norwalk, Ohio, Dark Cornish at Springfield Cornish Club Show, Jan., 1916: 3-5 cock, 1 pen; cup for best Cornish pen and cup for best parti-colored pen in show. Judge, John W. Ward, Jr.

Chas. F. Obermeier, 100 N. Western Parkway, Louisville, Ky., Barred Rocks at Lexington, Ky., Jan., 1916: 1 ckl, 1-2 ckl-bred pit, best Barred Rock ckl. Judge, Eugene Sites.

Fernbrook Farm, Menands Roads, Albany, N. Y., White Wyandottes at Boston, Mass., Jan., 1916: 6 cock, 5 hen, 2 pen. Judge, James Glasgow.

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Freeport Illinois

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QUALITY WILL TELL

At the big Chicago Coliseum Show, in classes that held the best birds ever shown there, our birds made the remarkable win of

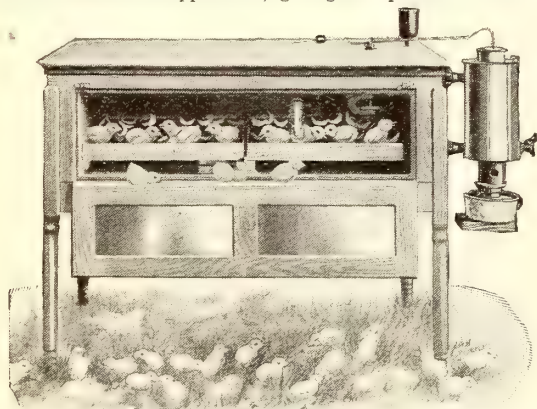
23 Firsts 9 Seconds 7 Thirds 3 Fourths 2 Fifths

A total of 44 prizes out of 55 entries—the largest win of the show.

This wonderful winning proves that "Shoemaker Birds" are the birds for you to buy. It tells the story of why our business has increased year after year ever since 1889. Our motto is "a dollar's worth of value" for every dollar received, that is why we retain our old customers. We want you to know all about our big factory where we manufacture our own incubators and brooders, our mammoth poultry plant where these prize winners are bred and raised, our method of square dealing, so

Send for Our 1916 Book of Poultry

It is not like an ordinary catalog, but a big 200-page text book on poultry breeding in all its branches; no other breeder in the country issues one like it. It tells you all about our wonderful birds, giving you prices on them; all about our Globe incubators, brooders and other appliances, giving the prices on same. It contains a number of color plates of leading varieties of fowls, showing the birds in their natural plumage. It tells you all about poultry ills, how to prevent and cure them, tells you what and how to feed. In fact, it is a book that if interested in poultry you cannot afford to be without. Write for it today, enclosing 15 cents. If you think the information on poultry contained therein is not worth the money, we will cheerfully refund same.



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with his EGG BASKET STRAIN OF S. C. BUFF LEGHORNS in the world's hottest competition in laying contests and at the December, 1915

Chicago Coliseum and World's Fair Show

At Panama-Pacific with 4 entries in 4 classes we won three ribbons. At Chicago, against the world's best breeders, we won 104 points to 31 of nearest competitor, winning championships in all shape and color specials, 37 birds entered; 34 under ribbons. At Official Egg Contests made records: 211 in 9½ mos.; 215 in 11 mos.; 230 in 11½ mos. Bred for eggs but fit to show. Egg-bred cockerels at \$3.00 and \$5.00. Show stock for anywhere. My kind pay.

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All three for 25 cents

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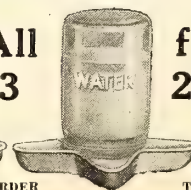
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for 1916, telling how a Mich. hired man now works for himself breeding PR squabs and selling for \$5 doz., how an Ind. man sold 4652 PR squabs for \$1265 in 1915 and cured himself of desire to leave the farm, how a S. C. man ships PR squabs 125 miles to city hotel by parcel post at \$4.25 doz., how another earned one thousand dollars with PR stock from start with only one pair, how a Texas judge bred 8 pigeons until they amounted to a flock of 164 in one year, how a Vermonter bred 25 pairs to 800 pairs in two years. You can do the same. More money-making experiences. Write today for this big free book. How to get six dollars a dozen, how to start small and grow big. We ship breeders every year, safe delivery guaranteed. And how one of our customers gets as high as \$8 a dozen for squabs in Pittsburgh and makes a net profit of ninety dollars a month. Note his selling methods. Reading matter which is alive with selling as well as breeding ideas. Squabs well sold are easily



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CINNAKOL DISINFECTANT

Sprayed in a solution of one part to fifty parts water will rid your chickens and houses of mites, lice and parasites, and will do it without injury to the fowls.

Cinnakol is efficient and economical. Ask your dealer.

25c. per pint 50 cts. per quart
\$1.50 per gal. \$6.25 for 5 gals.

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KEEP YOUR EGGS

Sell them when prices are highest for fresh eggs. Treat and keep them in your own home; no refrigeration necessary. After three days, cannot detect treatment. Not a liquid preservative, but pure vegetable compound. One dollar can will treat two thousand eggs. Sample tube will treat fifty eggs, ten cents.

Money refunded if not satisfactory. Send for circular.

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2000 BROADWAY NEW YORK

Gilbert Poultry Farm, Whittier Road, Haverhill, Mass., Columbian Wyandottes at Boston, Mass., Jan., 1916: 1 pen. Judge, Chas. D. Cleveland. At Lawrence, Mass., Jan., 1916: 2 ckl, 1 plt, 1 pen; shape and color specials.

Durfee's Leghorn Farm, R. No. 2, Madison, Wis., S. C. White Leghorns at Milwaukee, Wis., Jan., 1916: 4 cock, 2 hen, 4 ckl, 1 yng pen, 2 old pen; silver cup for the best winning on pens. Judge, Pierce.

Thornycroft Buff Leghorn Farm, Washington, Pa., S. C. Buff Leghorns at Pittsburgh, Pa., Jan., 1916: 1-2-4-5 cock, 1-2-3-4 hen, 1-2-3 ckl, 2 plt, 2 yng pen, 2 old pen. Judges, J. C. Punderford and J. P. Eriser.

R. M. Seward, Lewistown, Ill., S. C. Buff Orpingtons at Canton, Ill.: 3 cock, 1-2 hen, 2-3-4 ckl, 2-3 plt, 1-2-3 pen; champion female. Judge Keeler.

Mrs. Bertha Bottenus, 89 Burton Ave., Cleveland, Ohio, R. C. Rhode Island Whites, Forest City Fair at N. Randall, Ohio, 1915: 2 ckl, 1-2-3-4-5 plt; special for best ckl and plt in show and championship display.

W. F. Schultz, Cuyahoga Falls, Ohio, Buff Wyandottes at Indianapolis, Ind., Jan., 1916: 1-2 cock, 1-2-4 hen, 1 ckl, 1-5 plt, 2 yng pen, 1 old pen; specials for best shaped and colored males and females, best display and sweepstake pen. Judge, Pierce.

Wm. W. Carpenter, 16 Freeborn Ave., E. Providence, R. I., Barred Plymouth Rocks at Boston, Mass., Jan., 1916: 3 ckl-bred hen, 1-3 ckl, 2 ckl-bred plt, 4 plt, 2 ckl-bred pen; champion ckl, color special. At Providence, R. I.: 2 cock, 2 plt-bred cock, 1-2-5 hen, 4 ckl-bred hen, 1-2 ckl, 2 plt-bred ckl, 1-2 plt, 1 ckl-bred plt, 1 ckl-bred pen, 2 plt-bred pen, 2 exh. pen; champion ckl and shape special. At Attleboro, Mass.: 5 cock, 1-2 hen, 1-2 ckl, 1-3-4 plt; champion ckl. At Brockton Fair: 1 hen, 5 ckl, 3 plt, 2 pen. At Woonsocket: 2-3 cock, 1-2 hen, 1-2 plt, 1 pen. At North Providence: 1 hen; color special and champion hen in American class. At Worcester, Mass., 1916: 1-3 hen, 1-4 ckl, 3-4 plt.

H. F. Rikhoff, 527 Occidental Bldg., Indianapolis, Ind., S. C. Brown Leghorns at the Chicago Coliseum, Dec., 1915: 2-5 cock, 2-3-4 hen, 1-4 ckl, 1-3-5 plt, 1 pen. At Indianapolis, Ind., Jan., 1916: 1-2 cock, 1-2 hen, 1-2 ckl, 1-2 plt; all specials.

Ralph Woodward, Three Oaks, Grafton, Mass., Columbian Wyandottes at Boston, Mass., Jan., 1916: 1-2 cock, 2 hen, 1-2 plt, 3 pen; shape and color specials. Judge, Chas. D. Cleveland. At Worcester, Mass., Jan., 1916: 1-2 cock, 1-2 hen, 1-3 ckl, 1-4 plt, 1 pen; all specials, shape and color. Judge, Geo. W. Weed.

C. A. Sherman, 82 Delaware Ave., Freeport, Ill., S. C. Rhode Island Reds at Dubuque, Iowa, 1915: 2-4 ckl. Judge, Tucker. At Rockford, Illinois, 1916: 5 plt. Judge, McCord.

C. W. Lock, 733 Haish Ave., De Kalb, Ill., White Plymouth Rocks at Illinois State Show, De Kalb, Ill., Jan., 1916: 5 cock, 2-5 hen, 2 ckl, 3-4 plt.

L. B. Resseguie, Millers, N. Y., Barred Rocks at Buffalo, N. Y., Nov., 1915: 2-4 cock, 2 hen, 1-4 ckl, 1 plt; special for best display and champion male and female. At Palace Show, New York, Dec., 1915: 1 cock, 2 ckl, 2 plt, 3 plt; special for best display. At Pittsburgh, Pa., Jan., 1916: 1-2 cock, 1 hen, 1 ckl, 1-2 plt, 1 yng pen, 1 old pen; all specials. At Rochester, N. Y.: 1-2-4-8 cock, 1-2-4-5-9 hen, 2-3-4-5-7-9-10 ckl, 1-2-8-9 plt, 2 yng pen, 1 old pen, 1-2-3 plt-bred cock, 2-7-8 plt-bred ckl, 2-3 ckl-bred hen, 1-2-5-6 ckl-bred plt, 1-2 ckl-bred pen; champion male and female, state cup and 15 specials.

Mrs. Hattie R. Reed, Chestnut Terrace, Marcellus, N. Y., Buttercups at the Palace Show, New York, Dec., 1915: 5 ckl, 1 plt, color special and best female. Judge, Anderson. At Buffalo, N. Y., Nov., 1915: 2 hen, 2-4 ckl, 1-5 plt, 2 pen; special for best color. Judge, Anderson. At Syracuse, N. Y., State Fair, Sept., 1915: 2 hen, 1-5 ckl, 2-4 plt. Judge, Schilling. At Auburn, N. Y., Dec., 1915: 1 pen.

Rosedale Egg Farm, 1233 Water St., Port Huron, Mich., S. C. White Leghorns at Detroit, Mich., Jan., 1916: 1-5 plt.

The Morris Poultry Farm, Lebanon, Ohio, White Orpingtons at Madison Square Garden, N. Y., Dec., 1915, to Jan., 1916: 1 cock, 1-4 hen, 2 ckl, 1-4 plt, 2 pen; cup for best Orpington plt in show, best cock and hen; best display.

Williams' Buttercups
Bred to win. Free range, superior birds mated to produce best results in standard requirements. Cockers, Trios and Pens. Prices reasonable.
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Your Success

MEANS Eggs and Baby Chicks from profitable layers. It is a serious matter when eggs are selling for 32c to 55c a dozen and your hens are not laying. Ask the breeder who failed, he will tell you. Our trap-nested

S. C. Rhode Island Reds

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March Delivery.... \$22.00 per 100
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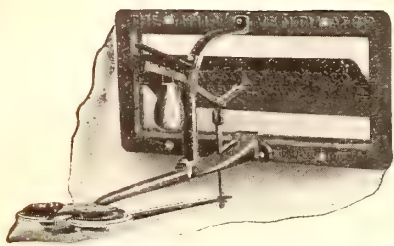
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Solves the problem of the houses becoming too warm in the middle of the day and the chicks crowding in the corners at night. The Hill Ventilator works automatically—always opens and shuts at the right time—needs no attention. With plenty of fresh air in the house you can raise more chicks, stronger chicks and make a better profit.

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Collapsible Sanitary Hens Nests. Add to or take from as many as you wish at any time. No nails, screws or bolts. Sanitary, easily cleaned, louse proof, substantial, convenient.

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Increasing demand, large profits. 100 Root Sets, with full information, \$1. Write for list of our \$1 Friend Makers, consisting of all kinds of Fruit Trees, Grape Vines, Berries, Shrubs and Roses. Small lots at wholesale prices.

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Aluminum, numbered to suit, with large raised figures. Postpaid 100-50c, 50-30c, 25-20c, 12-15c. Initials extra 10c per letter per 100; 50 or less 5c. More than one initial with cut figures. Circular free giving price on Small Chick, Superior, Riveted and Pigeon Bands. Sample for stamp.

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200 S. C. White Leghorn breeding hens, 2 years old May 1st. Tom Barron strain; 200 and better egg record, all in excellent condition \$1.50 per head, in lots of 25 or more.

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that will please you as well as the judges. My free circular tells all about them.

R. I. Reds P. H. Sprague Maywood, Ill.

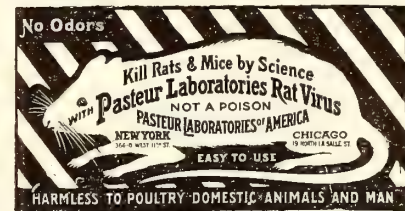
OUR COVER.

In a recent issue of one of our worthy contemporaries appeared a statement by their art department that it was impossible to make unretouched photographs of parti-colored varieties of fowls and to publish an unretouched picture of a prize winning specimen of such a variety, would be a joke and an absolute injustice to the breed, as the photographs made of them would not show the markings at all.

Well, friend reader, we challenge this statement and to prove our contention that it is possible to show unretouched pictures of any variety of fowls, we print on the cover of this issue a photograph of one of the many first prize winners of Partridge Wyandottes, bred and owned by the Sheffield Farms, Glendale, Ohio. The plumage of this bird is unretouched and shows every marking which it possesses. If this picture is a joke, then the sense of humor of our worthy competitor runs in a different direction from ours. We leave it to you, kind reader, whether this unretouched picture is a joke or if it tells the story a thousand times more truthfully than any made-to-order retouched picture ever could.

There is still another reason why we are glad to show this picture on our cover. You, no doubt, have noticed our slogan right above the picture, "We lead—others follow." Well, this is just one of the little things that keep the AMERICAN POULTRY JOURNAL in the front of the procession. AMERICAN POULTRY JOURNAL has put over so many good things lately that we are not ashamed to make this statement "We lead—others follow" on the cover where everybody can see it.

The art department is not the only one that helps keep the AMERICAN POULTRY JOURNAL in the front ranks. Take for example, our two-colored advertising sections in the January issue. This merely shows that the advertising representatives are doing their share. Then again, take the colored supplement in which the journal takes its subscribers to the shows by showing them unretouched pictures of prize winners within a week or ten days after the shows have closed. The splendid illustrated articles on everything pertaining to the industry which appear monthly all go toward keeping the AMERICAN POULTRY JOURNAL in the front, where it has always been.



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At each of last two Madison Square shows I won more firsts than all my competitors combined; 1915, 71sts; 1916, 61sts—13 out of a possible 20. Am. Campine Clubshow, Chi. Coliseum (1915) my Silvers won 1st, 5th cocks; 1st, 2nd hens; 2nd pullet; 1st young pen. Specials: best pen, best color'd male, best shaped male and female. 10 entries Golden won 9 regular premiums

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Orchard Farm, Noroton Heights, Conn.



A flock of choice M. B. turkeys on the C. C. Shoemaker Farm, Box 605. Freeport, Illinois.

OBITUARY.

THE death of Patrick McEvoy occurred January 10th, 1916, at Hamburg, N. Y., where he had lived practically retired for the past few years.

At an early age he emigrated from his native Ireland, choosing America for his home. Shortly after arriving in this country, he took a special course in agriculture and soon became very prominent in all branches of the poultry industry and intensive farming.

He was a man of unusual ability in this particular line; success crowning his efforts for many years. The last permanent position occupied by Mr. McEvoy being manager for the noted Crystal Springs Farm at Oil City, Pa. The last few years he acted in an advisory capacity in formulating plans, etc., for poultry and duck farms thruout the country. He was eminently successful in all undertakings and will be much missed by the many who enjoyed the pleasure of his acquaintance.

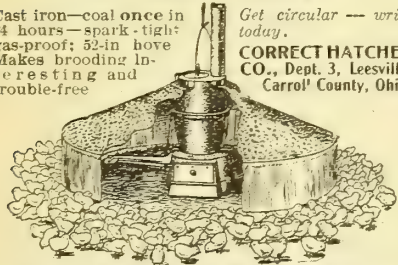
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Cast iron—coal once in 24 hours—spark-tight—gas-proof; 52-in. hove. Makes brooding interesting and trouble-free.

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COLUMBIAN WYANDOTTES
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Ralph Woodward, Box 200, Grafton, Mass.
Pres. National Columbian Wyandotte Club.

White Houdans Exclusively

At last they are here in all their glory—the White Houdans; destined to be the most popular breed for Farmer, Backlotter and Fancier—admitted to standard. As yet very scarce. I have three pens mated. Many prize winners. Eggs \$10 per 13, straight. No birds for sale.

Send for circular which describes them fully.

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EXTRA FINE COCKERELS, sired by Madison Square winner, \$2.00 and up. Few Jones and Jacobus strain pullets from same sire. Eggs, \$2.00 per 15 from best pen. Write your wants. Miss Cleone Allis, Wysox, Pa. 3

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SILVER CAMPINES—Jones' and Jacobus' strains; 4 firsts, 3 seconds, 4 thirds at Indianapolis in 2 years. Best mating eggs 15 for \$2; 50 for \$6; 100 for \$10. Extra good utility, 15 for \$1.50; 50 for \$4.50, 100 for \$8. James R. Percy, Martinsville, Ind. 2-4

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CHAMPION SINGLE COMB White Leg-horns. Young's Strain. Cocks and cockerels. Laying pullets \$2 each. Eggs from 200-egg hens, \$1.50 per 15; \$8 per 100. Satisfaction guaranteed. Send for mating list. J. H. Leffler, Jamestown, Pa., Route 40. 3-5

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YOUNG'S STRAIN WHITE Leghorns. Winners in leading shows. Unexcelled layers. 15 eggs \$1; 100 for \$5; chicks 20c; cockerels \$2. Circular free. Sunnyside Farms, Brooklyn, O. 3-5

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SINGLE COMB BUFF Leghorns—the kind that lay and win at Palace and Madison Square Garden Shows. Eggs, \$3 per 15; \$5 for 30. Glenwood Poultry Yards, Rutherford, N. Y. 2-4

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BUFF MINORCAS. The real thing. We originated and standardized them. 4 firsts, 4 seconds, 8 specials World's Fair. Lindgren Bros., Kingsburg, Cal. 3-5

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FOR SALE—S. C. BLACK Orpington eggs from prize winning stock, \$3 per 15 eggs. C. F. Lauterbach, Jr., Box 128, Petersburg, Va. 3-5

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S. C. BLACK ORPINGTON eggs. Heavy laying strain. Limited number of settings; \$3 per 15. F. F. Stevens, Canaan, Conn. 3-5

BLACK ORPINGTON eggs, \$1 per 13, from fine large birds. H. Merriam, Ashburnham, Mass. 3-5

SACRIFICE SALE OF BLACK Orpingtons—utility and exhibition. Foxhurst Farm and Rose strains. Closing out to devote full time to pastorate. Write for prices. Rev. Charles M. Kreidler, Elmira, N. Y. 1-3

SINGLE COMB BLACK Orpingtons. High class breeders and exhibition birds. Prices reasonable. G. A. Haper, R. 8, Batchtown, Ill. 1-3

BUFF ORPINGTONS.

S. C. BUFF ORPINGTONS—Yearling hens, \$1.75. If they don't suit perfectly, return them. Haakon Poultry Farm, Wyndell & Wyndell, Roland, Iowa. 3

MARTZ STRAIN BUFF Orpingtons. Eggs, \$1.50 for 15. Choice pullets, \$2.00 each. Cockerels, \$3.00 each. H. P. Chambers, Romeo, Mich. 3-5

SINGLE COMB BUFF Orpington eggs for hatching at 5c each; \$4 per 100. Anna Motry, Kansas, O. 3-5

FOSTER'S BUFF ORPINGTONS—Winners at Chattanooga, Louisville, Chicago Coliseum, Indianapolis. Eggs \$2.50. Catalog. G. H. Foster, Bloomington, Ind. 3-5

EGGS FOR HATCHING from grand pens, \$2, \$3 per 15. Cockerels bred from our winners \$2, \$3 each. Wonderful soft, even shade of buff. J. H. Tietsort, Girard, Ill. 3-5

BUN'S BUFF ORPINGTON eggs for hatching, \$3 per 15. Frank Bunbury, Niles, Mich. 3-5

BUFF ORPINGTON EGGS—\$1 and \$2 per 15; \$5 per 100. Write for mating list. Mrs. Earl Sutherland, Coatesville, Ind. 3-5

BUFF ORPINGTONS—Buff to the skin. Bred from pen that won 1st at Carbondale. Good layers. A. H. Floyd, Golconda, Ill. 3-4

HEAVY LAYING STRAIN Buff Orpington eggs, \$1.50 per 15. Odithia Farms, Stanley, N. Y. 3-5

GOLDEN FEATHER FARM—S. C. Buff Orpingtons from Cook direct. Large even colored breeders. Eggs 15 for \$1.50; 30 for \$2.75; 50 for \$3.50; 100 for \$5.50. Orders filled promptly. Frank Myers, Oakwood, O. 3-5

BUFF ORPINGTONS, MARTZ Strain—Prize winners. Eggs \$1.50 to \$1.75 per 15. Glen Echo Poultry Farm, 6500 Hamburger, St. Louis, Mo. 3-4

S. C. BUFF ORPINGTON eggs for hatching from Owen Farms; best eggs direct, \$3 per 15. Circular free. W. L. Richter, Kenwood Ave., Elkhart, Ind. 3

ROSE COMB BUFF ORPINGTONS exclusively. Eggs for hatching from Blue ribbon winners. Arthur T. Schleder, Lena, Ill. 3-5

SINGLE COMB BUFF ORPINGTONS exclusively; free range stock. Eggs \$3 per 50; chicks, \$3 per 25. Martz Strain. Emile Burnier, Assumption, Ill. 3-5

SINGLE COMB BUFF ORPINGTON egg, from prize winners, 15 for \$3; utility \$1 and \$2. M. H. Williams, Daleville, Ind. 3-5

SINGLE COMB BUFF Orpington—Eggs from our winners at Trenton, \$2.50 per 15; other choice matings, \$1.50 per 15; \$6 per 100. Order early. Last season returned hundreds of dollars to customers for orders we could not fill. Raymond, Anderson, Ravenock, N. J. 3-5

EGGS FROM \$35 PEN S. C. Buff Orpingtons, \$2 per 15; cockerels \$2 each. J. A. Mayer, Frankfort Heights, Ill. 3-5

BUFF ORPINGTON EGGS—Fertility guaranteed. Cook strain direct, \$1.50 and \$2 setting. Hy Wolfe, Marissa, Ill. 3-5

ROSE'S ORPINGTONS—When buying eggs you want the best. Our American Champion Buff and Black Orpington pens are headed by winning males. Madison Square Garden, N. Y.; Chicago; Coliseum, Boston. \$10 per 15. Guarantee hatch of 10 chicks. Mating list free. Hugh A. Rose, Fonthill, Ont., Can. 3-5

BUFF ORPINGTON EGGS and stock. Indianapolis winners. Big bone type, soft buff. Eggs \$2, \$4, \$6 per 15. Mating list free. E. Wiley, Trafalgar, Ind. 3-5

S. C. BUFF ORPINGTON eggs for hatching. Cook and Sunswick strains. Pen headed by grandson Champion New Yorker. Dr. G. E. Corwin, Canaan, Conn. 1-3

SINGLE COMB BUFF Orpingtons. Cook and Owen's strain. Choice stock reasonable. August W. Schroeder, St. Peter, Ill. 12

FASHION PLATE BUFF Orpingtons. Martz strain direct. As good as the best. Eggs, \$4.00 per 15. Geo. M. Selfridge, Niles, Mich. 2-4

BUFF ORPINGTONS. Eggs, \$2.00 per setting. W. T. Elrod, Marissa, Ill., Box A. 2-4

BUFF ORPINGTONS. Eggs, \$2.00 per 15, prepaid. Catalog free. Hacker Poultry Co., Box C, Marissa, Ill. 2-4

BUFF ORPINGTONS. Queen quality. None better. 100 eggs \$5.00. Square Deal Poultry Farm, Aurora, Ill. 2-4

S. C. BUFF ORPINGTONS. Cook and Owen's strain. Eggs, \$5.00 per 100. J. Wolf, Wheeler, Ill. 2-4

GOLDEN ROD BUFF ORPINGTON eggs for hatching, from our Peoria, Springfield, Quincy and contest winners, scoring 90 to 95½. Prices reasonable. Ten chicks guaranteed. Mating list free. Richard Seward, Lewistown, Ill. 2-4

BUFF ORPINGTONS. Best colored, winter lays and large boned, low set birds. Granger strain. Imported from England. Prices for both sexes, \$2.00 to \$5.00; \$10.00 for trios. Mrs. Chas. G. Trask, Independence, Iowa. 2-4

GOLDEN CHAMPIONS—BUFF Orpingtons. Winners Dubuque, December, 1915, third, fourth hens, third cockerel, first cock. Circular. H. Armstrong, Greeley, Iowa. 2-4

S. C. BUFF ORPINGTON eggs for hatching. Best at most reasonable price; \$3.00 and \$5.00 per 15. Sylvester Stevens, Marion, Ind. 2-4

BUFF ORPINGTON COCKERELS — \$2.50 each. Choice birds. Eggs in season. Mrs. Cora Hoover, Merrill, Iowa. 2-3

BLUE ORPINGTONS.

BLUE ORPINGTONS for sale. Prize winning stock. Cockerels and pullets. Hatching eggs. Chamberlin, 1104 No. Central Ave., Chicago, Ill. 3

BLUE ORPINGTONS—IMPORTED stock. Mating and price list free. J. J. Armstrong, Farley, Iowa. 3-5

BLUE ORPINGTONS. Extra fine birds reasonable. Rev. W. Berberich, Groton, New York. 11-15-tf

BLUE ORPINGTONS—Two matings only. All blues well laid; grand type; winners of several firsts. Eggs \$4 per 15. All clear and weak germ eggs replaced. H. Rudge, Gt. Barrington, Mass. 3

BLUE ORPINGTONS—Cockerels. Eggs \$2, \$3 and \$4 per setting. John Unangst, Freeport, Ill. 3

WELDAY'S STA-BLUE ORPINGTONS—Cockerels, eggs. Welday, Seville, O. 3

COCKERELS \$2.50. SIX females and male \$20. Eggs \$2 for 15. Fourth cockerel, fifth pullet, Chicago. Bird Lawn Farm, Drawer D, Lawrence, Mich. 3

WORLD'S FAIR, San Francisco, Cal. 1 cockerel, 1 hen, 2 pullet. Madison Square, New York, 9 birds entered. 7 won. Write Dr. Creath, Ottumwa, Ia., Box A. 2-4

BLUE ORPINGTONS. Eggs from choice pen, \$3.00 per 15. E. Schmidt, Hazelrigg, Ind. 2-4

BLUE ORPINGTON eggs, \$2.00 per 15, prepaid. Catalog free. Hacker Poultry Co., Marissa, Ill., Box C. 2-4

ROYAL BLUE ORPINGTONS of great size and color; two shipments imported from England by myself last spring. Eggs, \$3.00 and \$5.00. Dell Shepherd, Olney, Ill. 2-4

BLUE ORPINGTONS. Imported stock. No better stock for sale. 15 eggs, \$3.75; 30 eggs, \$7.00. Baby chicks, 10 for \$6.00; 20 for \$10.00. Orders booked now. Write. Alex M. Glew, Farley, Iowa. 2-4

DIAMOND JUBILEE ORPHINGTONS.

DIAMOND JUBILEE ORPINGTONS — Direct from Cook's. Eggs \$3 per 15. F. E. Pritchard, Tekonsha, Mich. 3-5

S. C. WHITE ORPINGTONS.

WHITE ORPINGTONS. Choice pullets, yearling hens and cockerels for sale. Prices reasonable. Large, vigorous, farm reared stock. Best strains. Eggs, \$5.00 per 100. Sunnyside Orpington Farm, Sandwich, Ill. 3-5

EGGS—S. C. WHITE Orpingtons (Kellerstrass-Owens strain). We guarantee perfect hatches from our healthy, line bred, Crystal White Orpingtons. \$2 per 15; \$5 per 50. Trouville Poultry Farm, Skillman, N. J., Box E. 3-5

EXHIBITION WHITE ORPINGTONS. Eggs for hatching from my first prize winners at Chicago, Des Moines, Burlington and Ottumwa, 1915-1916. Write for mating list. Mrs. Louis Montague, Box 292, Ottumwa, Iowa. 3-5

QUALITY WHITE ORPINGTONS. Winners wherever shown. Eggs, \$2.50 per 15. Females, \$2.00. George Layman, Greenville, Illinois. 3

SINGLE COMB WHITE ORPINGTONS. Large boned kind. Good layers. Eggs, \$1.50 per 15; \$2.75 per 30. Also Barred Rocks. Circular. Miss Delilah M. Moon, Route 2, Martinsville, Ohio. 3-5

WHITE ORPINGTON EGGS, \$3.00, from prize winners, scoring to 95½. Eight firsts at two shows. Mating list free. N. Roy Bowman, Albany, Wisconsin. 3-5

SINGLE COMB WHITE Orpington eggs from my famous heavy winter layers, \$2.00 per 15; from my exhibition matings, \$4.00 per 15. Satisfactory hatch guaranteed. J. Stokes, Canton, Illinois, Route 6. 3-5

WHITE ORPINGTONS, the heavy winter layers. Eggs from selected stock that is guaranteed to please you, only \$3.00 per 15. Henry Baer, R. 3, Peoria, Ill. 3-5

WHITE ORPINGTON setting eggs, \$1.50 per 15. H. F. Smith, Glen Ellyn, Ill. 3-5

S. C. WHITE ORPINGTONS. Bred from a \$500 pen mated by Kellerstrass, large white, high scoring birds. A. H. Floyd, Goldconda, Ill. 3-4

SINGLE COMB WHITE ORPINGTONS from our Chicago winners. Pens, \$12.00 and \$15.00; also single birds. Eggs, \$2, \$3, \$4, \$5; unsurpassed quality. William Tyler, Elgin, Ill. 3

PRIZE WINNING S. C. WHITE Orpington eggs for sale. Big, pure white beauties. Hens weigh ten pounds. \$2.00 per setting of 15. Order at once. A. D. Randall, R. F. D. 14, Randall Drive, Ft. Wayne, Ind. 3

CHICAGO COLISEUM WINNERS. White Orpington stock and eggs. Orpington Farm, Appleton, Wis. 3-5

KELLERSTRASS STRAIN WHITE Orpingtons. Eggs, \$5.00 per 100. Jno. Dupre, Antioch, Ill. 3-5

WHITE ORPINGTONS. Aldrich-Woolery strains direct, mated right. Eggs, \$2.00 and \$5.00 per 15. Supply limited. Satisfaction guaranteed. Clifford Wills, Salt Lick, Ky. 3-5

ALDRICH AND OWEN STRAINS. Cockerels, \$2.00 up. Eggs, \$1.50, \$3.00, \$5.00 per 15. Art F. Linders, Box K 106, Baldwin, Ill. 3-5

SINGLE COMB WHITE Orpingtons. Cook and Owen's strain. Choice stock reasonable. August W. Schroeder, St. Peter, Ill. 12

S. C. WHITE ORPINGTONS. My birds have low down, true Orpington type. Great layers. Have five pens of grand birds, mated right. Write for mating list. Edward Witt, Sidney, Ill. 1-3

SINGLE COMB WHITE Orpingtons. Choice breeders. Show birds at moderate prices. Satisfaction guaranteed. E. G. Holverstott, Kenton, Ohio. 1-3

WHITE ORPINGTONS from imported stock. A few cockerels for sale. Eggs. Brookwood Farm, W. T. Morgan, Prop., Mooresville, Ind. 2-3

EGGS FOR HATCHING from real White Orpingtons, large bone, high scoring birds. Book your order now for eggs. 2 doz. pullets for sale. Prices quoted on application. Guy Modglin, Metropolis, Ill. 1-3

FANCY BIG SINGLE Comb White Orpingtons from pure English imported stock. From immense choice cock bird and extra fine large hens. Cockerels, pullets at one-fourth price. Pherson, Bainbridge, Ind. 1-3

WHITE ORPINGTON EGGS for hatching. Extra fine cockerel for sale. Henry Brockschmidt, Freistatt, Mo. 2-3

WHITE ORPINGTONS of quality. "Aldrich" and "SB" strains. Winners Brookfield, Ill. and Hammond, Ind. Cockerels and hatching eggs. Write for mating list. S. B. Brennan, 3140 Irving Ave., Berwyn, Ill. 2-4

S. C. WHITE ORPINGTON baby chicks from trapezoid flock, 100 for \$15.00; eggs, 100 for \$5.00. Safe delivery guaranteed. Cedarhurst Poultry Farm, H. E. Hussev, Princeton, Ill. R. D. 8. 2-4

WHITE ORPINGTON WINNERS. Best strains. Bargains. Stock, eggs. Mrs. Amos, Kendallville, Ind. 1-3

WHITE ORPINGTONS. America's best blood strain. 100 eggs \$5.00. Square Deal Poultry Farm, Aurora, Ill. 2-4

WHITE ORPINGTONS, COCKS and cockerels from some of the world's most noted prize winning pens. Will ship on approval. Eggs, fancy and utility, a specialty. Prices reasonable. E. C. Goode, Boydton, Va. 2-3

SINGLE COMB WHITE Orpingtons, large, heavy, good type, color, heavy winter layers. Eggs, 15, \$2.00; 30, \$3.50; 50, \$5.00; 100, \$8.00. Satisfaction and safe arrival guaranteed. Mrs. Ella Whitwood, Hudson, Ill. 2-5

SINGLE COMB WHITE Orpingtons from Archwood Yards. Sussex strain, great, large, low down, massive type, extremely white, grand winter layers, grow like weeds. Eggs, 15, \$1.50; 50, \$4.00; 100, \$7.00. Lee W. Morgan, Independence, Indiana. 2-4

S. C. WHITE ORPINGTONS, the big winter layers. Eggs, \$2.00 per 15. Gustave Keller, Mountain Home, Ark. 2-4

WHITE ORPINGTON COCKERELS. A fine bunch at \$2.00 and \$3.00 each. Eggs, \$2.00 to \$3.00 per setting. Utility, \$6.00 per 100. Split Rock Poultry Farm, La Salle, Ill. 2-4

R. C. WHITE ORPINGTONS.

ROSE COMB WHITE Orpingtons, favorite fowl; to commend them, they lay in winter when eggs are high. Best table fowl. Hardy, docile, beauties. Prize winners when shown. My strain has these qualities. Eggs and stock for sale. Frank A. Brassington, Cleveland Heights, O. 2-4

WHITE ORPINGTON HOME. Rose Comb White Orpingtons, best laying and prize strain. Stock and eggs reasonable. Hatch guaranteed. Earl L. Cook, Munnsville, N. Y. 2-4

PARTRIDGE ORPINGTONS.

PARTRIDGE ORPINGTONS. Eggs from first prize Chicago pen, \$5.00; other pens, \$3.00 per 15. E. Schmidt, Hazelrigg, Ind. 2-4

PARTRIDGE ORPINGTONS. Eggs, \$2.00 per 15, prepaid. Catalog free. Hacker Poultry Co., Marissa, Ill., Box C. 2-4

ORPINGTONS.—SEVERAL VARIETIES.

R. C. BUFF AND S. C. BLUE Orpingtons. Won seven firsts at New York Palace and Madison Square. Eggs, \$3 and \$5 per setting. B. C. Roecker, Phillipsburg, N. J. 3-5

EGGS FOR SALE — White Orpingtons, \$1.00 per 15; \$5.00 per 100. Blue Orpingtons, \$1.50 per 15; \$8.00 per 100. From farm raised stock. Ed. Schumann, Madison, Ind. 3-5

ROSE COMB BUFF, Black, White Orpingtons. H. C. Faulkner, Marshall, Mich. 3-5

FOR THE BEST Orpingtons, any variety, send to their originators, William Cook & Sons, Box A, Scotch Plains, New Jersey. Catalog free. 11-15-tf

THINK! EGGS FROM CHOICE pens Buff and White Orpingtons. All breeders trapped, nested. Settings, \$1.60. Gramann, Marine, Ill. 2-4

POLISH.

WHITE CRESTED BLACK POLISH — Eggs from No. 1 stock. Eggs, \$2.00 per 15. Fred M. Haas, Machias, N. Y. 3-5

WHITE CRESTED BLACK Polish. Cockerels, \$5.00 and \$10.00. Eggs, \$2.50 and \$5.00. Pullets and chicks upon request. Noah Graybill, Walla Walla, Wash. 2-4

TWO-FIFTY FIFTEEN Bearded Silver Polish eggs. Postpaid. L. Leavitt, Smithfield, Ill. 3-5

WHITE CRESTED BLACK POLISH won championship at World's Exposition, six gold medals, seven silver medals. Blue ribbon winners from coast to coast. Mrs. Rose E. Knauss, Altoona, Penn. 3

FOR TEN YEARS my White Crested Black and Silver Bearded Polish have won more first prizes at the Chicago shows than all other competitors together. Trios from \$7.00 up. Eggs, \$2.00 setting. Frank Kuskuska, Berwyn, Illinois. 3-5

RHODE ISLAND REDS.

EGGS FROM SELECT pens of R. I. Reds or Barred Rocks. Write to August Larson, Albertville, Wis. 3-5

S. C. REDS — EGGS, \$1.00 per setting. Fine quality. R. L. Crigler, Covington, Ky. 3-5

ROSE COMB REDS—Buschman strain. Won first prize Mt. Vernon, Dix and Kell Fairs, 1915. Satisfaction guaranteed. Mating list free. James D. Pace, Route 6, Mt. Vernon, Ill. 3

COVALT'S STRAIN S. C. Rhode Island Reds. Send for illustrated catalog of matings for 1916; it is free. Scott Covalt, Box A, Council Bluffs, Ia. 1-3

MY SINGLE COMB REDS won seven 1sts, four 2nds, three 3rds, three 4ths, two best displays, shape and color on male and female at three shows. Mating list free. Eggs, \$5.00 for 30. Charles C. Morse, St. Charles, Illinois. 3-5

SINGLE COMB REDS. Ten years exclusively. Heavy laying strain. Eggs, pens, \$2.00, \$3.00 per 15; range, \$4.00 per 100. Lela Mahon, St. Peter, Ill. 3-5

ROSE COMB REDS. Eggs for hatching from our blue ribbon pens, \$2.00 per 15, or \$3.50 per 30; utility, \$5.00 per 100. Fertility and a square deal guaranteed. Order from this adv. Brookside Farm, Albion, Ill. 3-5

R. C. RHODE ISLAND REDS. Tuttle strain. Eggs, \$1.50 for 15. Laying pullets, \$1.50 and \$2.00. Fred Hosner, Romeo, Mich. 3-5

SINGLE COMB REDS that are Red. Two pens. Eggs, \$2.00 and \$1.25 per setting of 15 eggs. Utility eggs, \$4.00 per 100. Satisfaction guaranteed. B. B. Walrath, Arlington, Iowa. 3-5

SINGLE COMB RHODE ISLAND Red utility chicks, strong, thrifty ones. March, \$15, April 12, May \$10 per 100. Wm. H. Guile, Norwich, N. Y., Route 2. 3-5

ROSE COMB REDS. Hatching eggs from selected birds. Heavy layers, vigorous, free range flock of splendid type and color. 15, \$1.00; 100, \$5.00. Otto May, Attica, Ind. 3-5

EGGS FROM HEAVY LAYING S. C. Reds. Only a few settings offered. \$2 for 15. F. M. Kaley, Bridgeport, Ill. 3-5

ROSE COMB RED. Eggs for hatching from this year's winners at Chicago, Peoria and Streator, \$2.00, \$3.00 and upwards. Send for mating list. Dr. F. W. Koehler, Peru, Illinois. 3-5

ROSE COMB REDS. Kaufmann and Winheim strain. Large eggs from heavy laying, farm range hens, \$1.00 per 15; \$5.00 per 100. Edward Glendening, Delhi, N. Y. 3-4

CIRCULAR FREE. Quality counts. Reds, both combs. Won more first and specials in Ohio's Quality show than all other Red breeders. Large, deep even color, bred for heavy egg production. Eggs from best stock in the state for the money. Quality, safe delivery and good hatch guaranteed. Prompt shipment. Eggs, 15, \$2.00; 100, \$7.00; 1,000, \$65.00. H. H. Wadsworth, Waynesville, Ohio. 3

MY SINGLE COMB REDS, winners at Evansville, Louisville and Mt. Carmel. Great layers. Mating list free. Philip A. Seifert, Mt. Vernon, Indiana. 3-9

ROSE COMB RHODE ISLAND REDS. Cockerels and pullets for sale. Eggs from three grand matings of Bean bred prize winners. Write for mating list. J. M. Holt, Marshalltown, Iowa. 3-5

TOMPKINS SINGLE COMB Reds, bred for eggs. Strong, vigorous stock. 15 eggs, \$1.00; 50, \$2.50; 100, \$4.00. Albert Bonsall, Salem, Ohio. 3-5

SINGLE COMB RHODE ISLAND Reds exclusively. Eggs for hatching, mated pens, \$2 per setting of 15. Utility flock, \$1 per setting, \$5 per 100. Tompkins strain. Henry Kelting, Martinton, Ill. 3-5

S. C. RHODE ISLAND Red eggs, \$1.25 setting. Woodland Farm, New Lenox, Ill. 3-5

SINGLE COMB REDS of best breeding. Eggs from select pens. Prices moderate. A. A. Truby, Lombard, Ill. 3-5

SINGLE COMB REDS of quality. Settings from pens headed by winners at Greater Buffalo and Rochester shows delivered to your home \$2.00 per setting. Clarence B. Utter, Sayre, Pa. 3-5

OSBORN'S S. C. REDS. Pen 1. Scranton blood, with correct type and rich red color. Eggs, \$3.00. Pen 2. Crowther blood, trapped by me eight years; heavy laying strain. Eggs, \$2 fifteen. Chas. G. Osborn, Bowling Green, Ky. 3-4

SANDMIER'S SINGLE COMB REDS won again in the National Egg Laying Contest, laying 21 more eggs in January than their nearest competitors. Also winners at Iowa and Nebraska shows. Eggs, \$2.00 to \$5.00. Get my list. J. C. Sandmier, Waukee, Iowa. 3

SINGLE COMB REDS that are Red to the skin. Special mating, \$3.00 for 15; utility, \$1.00 for 15. Geo. Reiling, Burnt Prairie, Ill. 3-5

UMBARGER'S GARNET REDS made almost a clean sweep at Terre Haute, Indiana, last December in the hottest class of Single Comb Reds ever shown there. Champion male heads best pen. Special prize winners in all pens. Eggs, \$3 and \$5 per 15. Large boned line-bred cockerels, brilliant color, fine type. Satisfaction guaranteed. Russell H. Umbarger, Woodland Home Farm, Westfield, Illinois. 3-5

SINGLE COMB REDS of highest quality. Beautiful, dark, brilliant red color, of large size, good type. Heavy laying strain. Fine breeding cockerels for sale. Mating list free. G. A. Harper, Batchtown, Ill., R. 8. 3-5

SINGLE COMB REDS of highest quality. Stock and eggs for sale, at all times. Mrs. Louise Schroeder, St. Peter, Ill. 11

ROSE AND SINGLE Comb Reds, Buschmann strain. Choice stock, reasonable. August W. Schroeder, St. Peter, Ill. 11

EXHIBITION SINGLE COMB Reds. "Square Deal." Rev. Alfred Smith, West Union, Ohio. 1-3

S. C. RHODE ISLAND Reds, Scranton strain. Twenty-five nice dark red large bone cockerels. Numbers of hens for sale. Prices reasonable. Eggs in season. C. A. Cutchins, Franklin, Va. 1-3

FOUR DOLLARS PER HUNDRED EGGS. Welday's Famous S. C. Reds. 15 special mating eggs guaranteed to produce winners at any show, \$3. Startling price smasher catalog free. Welday, Seville, Ohio. 1-3

TOMPKINS' SINGLE COMB Reds bred for heavy winter laying. Big winners at Washington shows. Country raised. Best eggs \$2 for 15; \$8 for 100. Circular free. Chas. S. Moore, Bethesda, Md. 1-3

EGGS FOR HATCHING from high class Single Comb Reds, \$1.25 per 15. Red Feather Farm, Edgerton, Ohio. 1-3

ATTENTION—CHOICE BREEDING cocks, cockerels, hens, pullets, pens. Rose Comb at bargain prices. Going out of business. While they last. F. L. Snedeker, East Orange, N. J. 1-3

FOR SALE 50 FINE S. C. R. I. Red cockerels. Aristocrats. Good and well developed. Very finely colored. At prices that you can stand. Leon H. Roueche, Guys Mills, Pa. 1-3

CHOICE UTILITY BIRDS, both combs. Bred from Chicago, Boston, etc., winners. Cockerels, \$2.50 to \$5.00; pullets, \$1.50 to \$3.50. Order direct from ad. M. Schmidt, Chaska, Minnesota. 12-3

KRUEGER'S ROSE COMB REDS won at seven state shows, now again at Panama Exposition, Des Moines and Chicago Coliseum shows. Birds both sexes for sale. F. C. Krueger, Charles City, Iowa. 1-3

IMPERIAL REDS for color. As Red as the finest. 2-4

RHODE ISLAND REDS, both combs. Thompkin, Bean, Grother strains. Seventy cockerels, twenty pullets; \$2.00 to \$5.00. Eggs in season. Free mating list. Write now your wants. Z. Turner, Eleroy, Ill. 2-4

S. C. R. I. REDS. Tompkins' and Scranton's strain. We have the best lot of young stock we ever raised. Eggs for hatching, \$6.00 per 100. Mapleglen Farms, Jackson Corners, N. Y. 2-4

LARGE, GOOD TYPE, dark brilliant Single Comb Reds, heavy all year round layers. Fine winter layers. Eggs, 15, \$2.00; 30, \$3.50; 50, \$5.00; 100, \$8.00. Satisfaction and safe arrival guaranteed. Mrs. Ella Whitwood, Hudson, Ill. 2-5

ROSE COMB REDS. Leading strains. Excellent laying, free range flocks. Eggs, \$1 and \$2 by parcel post prepaid. Hens, \$1 each. Mrs. Dessa Cope, Scholten, Mo. 3

SINGLE COMB REDS—Fine stock. Cocks, \$2.50; cockerels, \$2.25; pullets, \$1.75; hens, \$1.60. Eggs, \$1 for 15; \$3 for 50; \$5 for 100. Nintzel Bros., Oshkosh, Wisconsin. 3

SINGLE COMB REDS. Choice stock reasonable. Eggs \$1.00 per 15; \$4.00 per 100. Mrs. Fred Schroeder, St. Peter, Ill. 3

ROSE COMB RED COCKERELS all sold. Eggs from 6 grand pens, headed by blue ribbon winners, \$2, \$3 and \$5 per 15. Quality is our hobby. Fred R. Thornton & Son, Streator, Illinois. 1-3

ROSE COMB RHODE ISLAND Reds. Blue ribbon winners at several shows. Eggs for hatching. Four pens mated. Get my 1916 mating list, free to you. Thomas J. Britton, Kentland, Ind. 2-4

IMPERIAL REDS for layers. Egg rates 170 to 274. 2-4

S. C. R. I. REDS. Tompkins' and Scranton's strains. Eggs for hatching a specialty; \$1.00 per 15, \$6.00 per 100, \$25.00 per 500. J. S. Bergh, Jackson Corners, N. Y. 2-4

ROSE COMB REDS. Great laying strain. Fine cockerels, hens, pullets, \$1.00 up. Eggs. Circular. Albert Daily, Frankfort, Ohio. 2-4

EGGS FROM RHODE ISLAND Reds scoring up to 93%, \$1.50 per 15. Quality high; price low. Why pay more? A trial order is all I ask. Den Tomlinson, Browns, Ill. 2-4

IMPERIAL REDS for you. The most satisfactory strain. War prices on cockerels and eggs. W. L. Miller, German Valley, Ill. 2-4

RHODE ISLAND WHITES.

ROSE COMB RHODE ISLAND WHITES. Eggs, \$2.00 per 15. Fred M. Haas, Machias, N. Y. 3-5

ROSE COMB WHITES. Best laying show strains. Cockerels, \$2, \$3. Eggs, 15, \$1.50; 50, \$4; 100, \$8. Catalog. Col. Warren Russell, Winfield, Kans. 3-5

SHOREWOOD BUSINESS-BRED Rhode Island Whites. Leading trap-nested strain. Pedigreed layers. Records 261, 248, etc. Blue ribbon winners. Both Single and Rose Combs. Chicks, eggs and breeders. Shorewood Farms Co., Box J, Saugatuck, Mich. 3-5

ROSE COMB RHODE ISLAND Whites. At the Rhode Island White Club Show at Louisville, Ky., November 22-27, 1915, in competition with best Whites in the world, 1 won 1st, 2d hens, 1st pullet, 5th cock, 2d pen. Every bird I entered won. Write for mating list. J. T. Patrick, Route 4, North Vernon, Ind. 1-3

ROSE COMB RHODE ISLAND Whites, bred for heavy egg production. Pen eggs \$2 per 15 and up. Range flock eggs 15 for \$1.25; 50 for \$3; 100 for \$6; chicks 25 lots and up 20 cents each; cockerels \$2, \$3.50 and up; cocks \$3.50 each and up. Fredk. Havig, Route 2, Osage, Iowa. 1-3

HEADQUARTERS FOR ROSE Comb Rhode Island Whites. I am the oldest breeder of this breed. Eggs and stock for sale from this wonderful laying strain. Free catalog. C. A. Foster, Colonial Poultry Yards, Akron, Ohio. 1-3

R. C. RHODE ISLAND Whites. Eggs in season. Fertility guaranteed. L. C. Huber, Batesville, Ind. 2-4

THE GREATEST RHODE Island White farm in the world. Rose and Single Comb. Trios, \$6; pens, \$10. Eggs and baby chicks. Catalog free. Henry Eichelmann, Waterloo, Ill. 2-4

RHODE ISLAND WHITE eggs, \$1.50 per 15. Both combs. Winter layers. John Roth, Morton, Ill. 2-4

IF YOU WANT RHODE ISLAND Whites that always win, get Swift's mating list. White Cochins and Silkies Bantam. W. E. Swift, Waverly, Ill. 3-5

ROSE COMB RHODE ISLAND Whites. Trap-nested stock. Eggs from New York and Panama-Pacific International Exposition winners. Send for mating list. G. S. Boller, Little Valley, N. Y. 2-4

BARRED ROCKS.

PARKS STRAIN BRED TO LAY Barred Rocks. Eggs, \$2.00 per 15. Chicks, 20c each. P. Chaddock, Elgin, Ill. 3

BARRED ROCKS—THOMPSON Ringlets. Large, healthy, vigorous birds on free farm range. Eggs, \$5.00 per 100. Satisfaction guaranteed. Arthur Leneker, Fort Plain, N. Y. 3

ROSEMOUNT BARRED ROCKS—Ever better; Cleveland first prize winners. Illustrated catalog now ready. Let's get acquainted. Franklin, Pa. 2-7

STAMPER BARRED ROCKS are better. Every bird shipped on approval. Write about prices. M. L. Stamper, Clifton Hill, Missouri. 11-3

BARRED ROCKS. Thompson strain. Choice stock reasonable. August W. Schroeder, St. Peter, Ill. 11

BARRED ROCK EGGS from handsome, splendid layers. If you desire quality and low prices write me. Veit Schoenberger, Glendale, Ohio. 1-3

FAIR VIEW BARRED Plymouth Rocks and Single Comb R. I. Reds. Splendid layers. Winners New York, Albany, Syracuse, Catskill. Eggs \$2 and \$3 setting. Fredrick Coons, Greendale, N. Y. 1-3

PRIZE WINNING RINGLET Barred Rocks. Extra heavy laying strain. Unusual bargains in cockerels. Eggs \$2.50 setting. William Kendall, Greenville, Ill. 1-3

"RINGLET" BARRED ROCKS sold on approval. Both matings. Choice show birds and breeders, \$2 to \$10 each. Mated pens (four females and male), \$10 to \$20. Circulars and photos. John Northon, Clare, Michigan. 12-3

DON'T LOOK FOR LARGE Barred Rock ads. Buy cockerels and females from our cockerel bred winners at Galesburg, Quincy, Jacksonville and other shows. Write me and find out who is George A. Coffman, Rushville, Ill. 1-3

BRED TO LAY BARRED ROCKS. Cockerels and eggs for sale. John Watt, Forest, Ill. 1-3

MRS. ARCH LAGEL, breeder of Barred Rocks. Stock and eggs for sale. Depauw, Ind. 2-3

SPRING CREST BARRED ROCKS. Large farm raised cockerels, \$2 to \$8. Eight years breeding for eggs will improve yields of your flocks. Fifteen eggs, \$2. Walter C. Smith, Spring Crest, Wauwatosa, Wis. 2-4

PARKS' STRAIN, eggs for hatching and baby chicks from healthy, prolific stock in open houses on free range. Chicks hatched in mammoth incubator. Chicks, \$15.00 per 100; eggs, \$1.50 for 15; \$4.00 for 45; \$8.00 per 100. H. W. Taylor, Berlin, Md. 2-4

PARKS' 200 BARRED ROCKS. Some good cockerels for sale. Eggs, 15, \$1.50; 50, \$3.50. Write Ed B. Murphy, Box 4, Carmel, Ind. 2-4

RINGLET BARRED ROCK eggs and baby chicks. Quality stock. Satisfaction guaranteed. Correspondence solicited. Oliver Thurnau, St. Jacob, Ill. 2-4

HAWKINS' BARRED ROCKS. Eggs, 15, \$2.00; 30, \$3.00. Catalog free. Methodist Minister, Springfield, Ky. 2-4

BARRED ROCK EGGS from special mating that will produce fine exhibition males and heavy laying females. 15 eggs, \$1.50; 30, \$2.50; 100, \$5.00. Order direct from this ad. Riverview Poultry Yards, Yale, Mich. 2-4

BARRED ROCKS. Ringlets. Eggs, 100, \$3.50; 30, \$1.75; 15, \$1.00. E. P. Churchill, Allerton, Iowa. 2-4

DO NOT ORDER BARRED Plymouth Rock eggs for hatching until you see our January folder. It's a revelation. Shows original photographs of breeding pens; prices and guarantee. Write today. Peerless Poultry Plant, Ogdensburg, N. Y. 2-4

E. B. THOMPSON'S Ringlets direct. Extra choice cockerels, females and eggs, big vigorous stock; bred from winners; best New York winning blood from proven breeders. Have spared neither pains nor money. William Huckle, Waverly, N. Y. 2-4

BARRED ROCKS. PRIZE winning Thompson's Ringlets. Both matings. Cockerels for sale. Eggs March 1st. Circular. F. L. Gould, Table Grove, Ill. 2-3

BARRED ROCK pullets for sale that will make splendid layers. Also incubator eggs. L. F. Thompson, Hope, Ind. 2-3

RINGLET PRIZE MATINGS. Eggs, \$2.00 per setting. Rev. W. W. Cole, Angelica, N. Y. 2-4

RINGLET BARRED ROCK Eggs. Stock direct from Thompson, \$2.00 for 15, \$3.50 for 30. Can ship in zero weather without chilling. New way of packing. 95% fertility guaranteed. Brookwood Poultry Farm, Cary Station, Ill. 2-4

QUALITY BARRED ROCKS. Eggs from our winners at Illinois State Show, Aurora, and Streator. Both matings. Mating list upon request. Laufer Bros., Millbrook, Ill. 2-4

RINGLET BARRED ROCKS sold on approval. Hen hatched, both matings. Choice show birds and breeders. \$3 to \$10 each. Breeding pens, \$10 to \$20. Setting best eggs, \$4 per 100; utility eggs, \$7; postpaid. Circulars, photos. John Northon, Clare, Mich. 3-5

FOREST HOME FARM PULLET-BRED Barred Rocks. Won 2d cockerel, 2d cockerel, 2d, 3rd hen, 3d, 4th pullet, 1st pen, Louisville show this season. Get eggs or baby chicks from prize winners. Also registered Jerseys and Durocs. W. D. Bean, Prop., Corydon, Indiana. 3-5

BARRED ROCKS—RINGLETS. Thompson's winning lines direct. Cockerels, \$3 and \$5 each. Eggs, exhibition matings, \$3 per 15; utility, \$5 per 100. Satisfaction guaranteed. Circular. F. L. Gould, Table Grove, Illinois. 3-4

BARRED ROCKS. Both matings. Forty females for sale. Eggs from blue ribbon winners, \$3.00. Geo. Sandborg, Galesburg, Ill. 3-5

BARRED ROCKS—Stock and eggs. Indianapolis, 1914 and 1915 state champion cockerel, 1st pen, 2d pen, 1st cockerel, 1st pullet, 2d and 3d hen. A limited number of birds for sale. Mating lists for eggs on application. W. H. Goddard & Sons, Orchard Place, Riverside, Muncie, Ind. 1-3

FANCY BARRED ROCK eggs, \$1.50 and \$2.50 for 15. E. B. Thompson Ringlet strain. Fifteen years experience breeding Barred Rocks. Three prizes Virden show, 1915. J. H. Hart, Thomasville, Ill. 3-5

BARRED ROCKS. Thompson-Holterman strains. Eggs from large, healthy, prize winning and high scoring birds, \$2.50 per 15. Quality and fertility guaranteed. Mrs. J. M. Wales, Springfield Mo. 3-4

BARRED PLYMOUTH ROCK and White Wyandotte hatching eggs. Heavy laying strains. \$1.50 per 15 eggs. Paul Wilke, 338 Desplaines Ave., Forest Park, Ill. 3-4

BARRED ROCKS. E. B. Thompson's direct. Eggs from choice matings, \$2 per 15, \$3.50 per 30; range, \$3 per 100. Pullets for sale. Mrs. Leland Redfield, Newark, Ill. 3-5

WINNERS — 270-EGG record. Catalog. W. W. Kulp, Pottstown, Pa., Box 70. 3-5

BARRED ROCK EGGS, \$1.50 per 15; \$2.75 per 30; 10 chicks guaranteed. Won 1st cockerel, Bushnell, score 92½. Edwin Laux, Bushnell, Ill. 2-4

EGGS FOR HATCHING from bred-to-lay Barred Plymouth Rocks, 200-egg strain, free range, healthy stock, at \$6.00 per 100. Mrs. August Bartels, Elmhurst, Ill., Route 1. 3-5

BARRED ROCKS. Chicks and eggs, from best matings or utility. Write. Wm. Hasselbrock, St. Peter, Ill. 3-5

BARRED ROCKS, direct from Hawkins' sweepstake winners, New York and Chicago. Eggs from best stock in Central West for the money. Safety first, good hatch, safe delivery guaranteed. Prompt shipment. Circular. Eggs, 15, \$1.50; 100, \$6.50; 1,000, \$60.00. B. T. Vice, Waynesville, Ohio. 3-5

BARRED ROCK BREEDERS—Learn more about your variety, subscribe for National Barred Rock Journal, Union City, Mich., issued monthly and devoted exclusively to the Grand Old Breed. 50c a year, 3 years \$1. sample 5c. 3-16-1yr

YORK'S BARRED ROCKS. Pullet mating. Eggs for sale at \$1.50 and \$2.50 per 15. Frank York, Fancier, Strasburg, Ill. 3-5

E. B. THOMPSON'S Ringlets direct. Eggs from my winners at \$3 per setting of 15; 2 settings \$5. Utility, \$1.50 per setting. Send for circular. G. E. Turner, Fisher, Ill. 3-5

FROM PARKS' BRED-TO-LAY, 200-egg trap-nested strain. A few cockerels, \$3 and \$5. Box 36, R. F. D. 2, N. Berwick, Me. 3

FINE RINGLET BREEDERS. Thompson direct. Judged by Elmer F. Benson: 3 cockerel-bred cock birds, \$10, \$15; 2 cockerel-bred cockerels, \$5, \$8; year old pullet-bred hens, \$2; few choice cockerel-bred year old hens, \$4; 1 pullet-bred cockerel, \$3. M. F. Hanscom, N. Berwick, Me. 3

E. B. THOMPSON'S Barred Plymouth Rocks, 15 eggs \$2.00. Mating list free. W. H. Settle, Gridley, Ill. 3-5

THOMPSON'S RINGLET STRAIN of Barred Plymouth Rocks, 30 eggs \$2.00; 100, \$5.00. Transportation prepaid. Frank Moore, Madison, Ind. 3-5

RINGLET BARRED ROCKS. Farm range. Eggs, well packed, \$5 per 100. Fertility guaranteed. Ade Stevens, Depauw, Ind. 3-4

EGGS—BARRED ROCK. Both matings. Selected pens. Won all first ribbons at Edgerton, 1916. High class competition. \$3.00 per 15. Dr. Blosser, Edgerton, O. 3-5

HOOVER HOOSIER STRAIN eggs, \$2.00 per 15, from prize stock. River Side Poultry Yards, Plymouth, Ind. 3-5

BARRED PLYMOUTH ROCKS—Pure bred E. B. Thompson's Ringlet strain. 26 eggs, \$1.50; \$4.50 per 100. Address Ben Custer, Route 9, Madison, Ind. 3-5

RINGLET BARRED ROCKS. Eggs from the very best matings, \$1.50 to \$5.00 per 15. Circular free. M. L. Stamper, Clifton Hill, Mo. 11-3

BARRED ROCKS OF QUALITY eggs from large vigorous birds. \$2.00 per 15. John C. Waldron, Paxton, Illinois. 3-5

AURORA BARRED PLYMOUTH Rock baby chicks, guaranteed to please anyone. 25 chicks, \$3.75; 50 chicks, \$7.50; 100 chicks, \$15.00; 200 chicks, \$25.00. Martin Michelson, 232 5th St., Aurora, Ill. 3-5

RINGLET ROCK EGGS, \$1.25 to \$5.00 per 15; 100, \$5.00. Both matings; two pens direct last spring. V. I. Hostetler, R. 5, Napanee, Ind. 3-5

BARRED ROCK EGGS from large and splendid laying stock, \$1 per 15, \$4.50 per 100. Also pullets. L. F. Thompson, Hope, Indiana. 3

PARKS' STRAIN BARRED ROCKS. Open houses on free range. Eggs, 15, \$1.50. R. A. Burgett, Dorset, Ohio. 3

PARKS' 200-EGG BARRED ROCKS. Pens headed by sons of 232, 238, 246, 247 and 253-egg hens. 15 eggs, \$1.50; 50, \$4.50. Circular free. Frederick Matteson, 3808 Woodley Lane, Washington, D. C. 3-5

BARRED ROCKS—BRADLEY strain; free range. 15 eggs, \$1.00 prepaid; 100 eggs, \$4.00. Mrs. Ella Hiel, Avon, Ill. 3

RINGLET BARRED ROCKS. Eggs from birds with great size and quality combined. Special exhibition matings, 15, \$3; 30, \$5. Farm range, 15, \$1.50; 45, \$3; 100, \$6. Mrs. J. M. Kemp, Kenny, Ill. 3-5

EGGS, 100, \$4.50; setting, \$1.00. Mammoth Barred Rocks, weight to 16 lbs. Howard Irvin, Polo, Ill. 3-6

BARRED ROCK EGGS. Prize exhibition and utility stock. Mating list. Photographs. Chas. Morgan, Loda, Ill. 3-5

BARRED PLYMOUTH ROCKS — Fine stock. Cockerels, \$2; pullets, \$1.75; hens, \$1.60. Eggs, \$1 for 15; \$3 for 50; \$5 for 100. Nintzel Bros., Oshkosh, Wisconsin. 3

OHIO'S FOREMOST STRAIN of Barred Rocks. Judges say you must have our strain if you want the finest. Eggs from our best exhibition matings, \$5.00 per setting. Mating list free. Enger's Barred Rock Farm, Station F, Bedford, Ohio. 3-5

E. B. THOMPSON'S RINGLETS direct. Both matings. Farm raised. \$2.00 per 15; \$3.50 per 30. Amos A. Hieser, Dewey, Ill. 3-5

BARRED ROCKS. Bradley strain direct. Snappy, vigorous. E. C. Pendleton, Golden, Illinois. 3-5

BARRED ROCK EGGS, \$2.00 per 15, from these winners, Shenandoah, Omaha, Atlantic, Des Moines, Clarinda, Kansas City, 1915-16. Mart Rahn, R. 20, Clarinda, Iowa. 3

BARRED ROCKS. Eggs from a select mating of heavy layers. \$1.75 per 15; \$5 per 50; \$9 per 100. All infertile eggs replaced at one-half. R. E. Frederick, Plymouth, Iowa. 3-5

COLUMBIAN PLYMOUTH ROCKS.

MY COLUMBIAN PLYMOUTH Rocks have proven the world's best layers and show birds combined; win at the leading shows. Eggs and stock in season. J. M. Jones, Hornerstown, New Jersey. 3-5

COLUMBIAN ROCKS. Pullets for sale from selected layers; also eggs in season. H. J. Ricker, Lodi, Wis. 3

COLUMBIAN PLYMOUTH ROCKS—Winners and layers. See ad. on page 396. 1-16-1yr

CHAMPION HEAVY WEIGHT egg layers. Chicago winners. 15 Eggs \$1.50. Stock for sale. Write your wants. Erwin H. Spencer, Irving Park Sta., Chicago, Ill. 2-4

COLUMBIAN ROCKS. Lay and win. Eggs \$3, \$2 and \$1 per 15. Go. Clotzbah, Goltzy, Okla. 1-4

GOLDEN BARRED ROCKS.

GOLDEN BARRED ROCKS—15 eggs \$3 or 30 for \$5. A. E. Sitz, Humphrey St., Logansport, Ind. 3-4

WHITE PLYMOUTH ROCKS.

WHITE ROCKS OF QUALITY. Winners everywhere. Eggs at \$1.50, \$2.50 and \$3.50 per 15. Theo. Poole, Box 20, De Witt, N. Y. 3-5

WHITE ROCKS—MY STOCK has been bred for egg production as well as for fancy show points, and prove to be of the best. Eggs, \$1.50 per 15. Stock for sale. Satisfaction guaranteed. R. K. Galebach, R. 6, Manheim, Pa. 3-4

FAIRVIEW POULTRY YARDS. You will be pleased if you buy eggs or stock at reasonable prices of John Matteson & Son, breeders of their famous White Plymouth Rocks, 271 Morgan St., Elgin, Illinois. 3-5

BOWEN'S WHITE ROCKS. The winning kind. Great layers. Three grand pens. Prices reasonable. Thomas Bowen, Queen City, Mo. 3-5

FISHEL WHITE ROCKS. 15 eggs, \$1, \$2; 100, \$5. Gertrude Ottinger, R. 5, Madison, Indiana. 3-5

WHITE ROCKS—MAGNIFICENT stock from hens of 200-egg records. Cockerels, \$5.00; pullets, \$5.00. Eggs from mating of 200-egg hens with son of 301-egg hens, 25c each; \$2.75 per 15; \$18.50 per 100. M. A. Stockley, Winnetka, Illinois. 3-5

WHITE ROCKS. Trap-nested pedigreed layers ten years. Only hens of 200 or more eggs each year bred from. Prompt shipment, safe delivery and good hatch guaranteed. Eggs, 15, \$2.00; 100, \$6.50; 1,000, \$60.00. Mrs. E. Wadsworth, Waynesville, Ohio. 3

WHITE ROCKS—FINE birds of great vigor, carefully trap nested. Eggs from choice matings, \$1.50 per 15. W. S. Jennings, Irvington, Ind. 3-5

WHITE PLYMOUTH ROCKS—Fifteen years with this variety. Winners at Indianapolis, New Orleans, Minneapolis, Indiana State Fair, Honolulu, etc. Also splendid layers. Stock for sale. Eggs \$2 and \$5 per setting; \$8 per 100. J. T. Thompson, Hope, Ind. 3

WHITE ROCK HATCHING eggs from selected stock of exhibition quality. Poor-man's trap nested strain, \$2 for 15. O. R. Phillips, Route 2, Poland, O. 3-5

WHITE ROCKS—Midlothian—Fishel Strain direct. Heaviest layers. Tray nested. Satisfaction guaranteed. Eggs 2 for 15. B. A. Alderson, Salem, Ill. 3-5

OWEN FARMS STRAIN White Rocks. Breeding cockerels \$3 and \$5 each. Eggs \$3 per 15. O. S. Fowler, Hopedale, O. 3-5

"COLFAX" WHITE ROCKS are generous layers of big, brown eggs—even in Winter. Stock, eggs, baby chicks with the "kick." Catalog. T. F. Richardson, Colfax, Evans-ton, Ill. 3-5

FISHED WHITE ROCKS blue ribbon winners choice stock, breeders and utility. Now booking orders, eggs and chicks. Free catalog. Whiteview Poultry yards, Mishawaka, Ind. 3-5

FISHEL WHITE PLYMOUTH Rocks, direct. Blue ribbon winners under prominent judges. In laying qualities vigor and standard requirement, they will please you. Eggs in season. Booklet free. C. R. Anthony, Millersburg, O. Route 4. 3-5

FISHEL WHITE ROCKS—Eggs from prize winners or utility stock. Cornelius Heinfield, New Bremen, O. 3

WHITE ROCK EGGS from trap nested heavy laying strain, \$3 for 15. Fertility guaranteed. Hillview Poultry Yards, Box A, Batesville, Ind. 3-5

PRIZE WINNING, WINTER laying strain White Rocks. Pens mated with Fishe'l strain. All my cockerels weigh 10 pounds and over, with good combs and shape to win any prize. 15 eggs \$1; 100 for \$5. Hy J. Marquardt, Waterloo, Ill., Route 5. 3-5

FISHEL STRAIN WHITE Plymouth Rock cockerels. Extra fine. Write for prices. Fred R. Labar, Greendell, N. J. 3

WHITE ROCKS. Fishe'l strain. Choice stock reasonable. August W. Schroeder, St. Peter, Ill. 11

FISHEL WHITE ROCKS direct; farm raised. Prominent winners under prominent judges. In health, constitutional vigor and Standard requirements they will please you. Splendid breeding cockerels, \$2.00, \$3.00 and \$5.00 each. A few choice ones \$8.00 and \$10.00 each. Satisfaction guaranteed. Booklet free. Plummer McCullough, Poultry Judge, Mercer, Pa. 12-15-lyr

HIGH CLASS WHITE ROCKS. U. R. Fishe'l strain direct. Eggs of great laying strain, 15 eggs \$1; 50 for \$3; 75 for \$4.50; 100 for \$5. 200 for \$10; 500 for \$25, fresh laid. Cockerels, hens reasonable. Henry Heitkamp, C 91, New Bremen, Ohio. 1-4

WHITE ROCK EGGS from prize winners at leading shows, \$2.00 per 15 delivered. Woodford Poultry Farm, Station M, Cincinnati, O. 2-4

WHITE ROCKS—EGGS from the best of matings, \$3 per 15. Ferd. W. Floyd, Box R, Dillsburg, Pa. 2-4

WHITE ROCKS—HALBACH DIRECT. Matings headed by big winners. Early developing trap nested strain. Flock average 170 eggs. Pullets lay in 4 to 5 months. Hatching eggs with liberal fertility guarantee, \$6 for 100; \$1.50 for 15. Postal brings circular. Snowflake Poultry Farm, Tallula, Ill. 2-4

WHITE ROCKS—Good breeders, males and females. Eggs for hatching. Guaranteed fertility. Free circular. Hoch & Frederick, Box O, Chambersburg, Pa. 2-4

WHITE ROCKS, FISHEL Strain—Eggs from our prize winning pens and trap nested layers, \$1.50 to \$3 per 15. Send for mating list. Roselawn Poultry Yards, South Bend, Ind. 2-4

WHITE PLYMOUTH ROCKS—"They please where others fail." Eggs, \$3 per 15. Nine chicks guaranteed or orders refilled at half price. Jas. W. Morrissey, 108 W 3d St., Alton, Ill. 2-4

CROCKETT'S WHITE ROCKS line bred stock; dependable layers. Eggs, \$1.50 per 15; \$7.50 per 100. Chicks, \$18 per 100. Crockett Poultry Farm, Bridgeport, Mich. 2-4

FOR SALE—CHOICE White Rock cocks and cockerels. Eggs for hatching. E. S. Hess, Kentland, Ind. 2-4

WHITE ROCKS—Fishel direct; fine laying strain; extra large eggs, \$1 for 15; \$3 for 50; \$4.50 for 100. Good percentage fertility guaranteed. George Boye, St. Peter, Ill. 2-4

WHITE ROCKS, Fishel Strain, eggs, \$5 per 100. J. Wolf, Wheeler, Ill. 2-4

HIGH CLASS WHITE ROCKS—Fishel Strain direct; 15 eggs \$1; 100 eggs \$5; 200 eggs \$9; 500 eggs \$22. George Lehmkuhl, New Bremen, O., Box 182. 2-5

WHITE ROCKS FROM famous Felch Strain. Booking settings now. Few fine ones only. Three dollars per setting. Established 1860. Broadwell Strain, Metamora, O., Fulton Co. 2-4

WHITE ROCK COCKERELS. Eggs for hatching. Write for circular. Satisfaction guaranteed. A. S. Lindsey, Hendricks, W. Va. 2-4

WHITE PLYMOUTH ROCKS—The kind that win. Eggs \$1.50 per 15; \$8 per 100 prepaid. Myers & Garland, Lehmasters, Pa. 1-3

WHITE PLYMOUTH ROCKS. Best laying strain. Eggs for hatching \$1.50 per 15; \$6 per 100. Day old chicks 15 cents each; \$14 per 100. Mrs. Gilbert Luyster, Franklin, Ind., R. 4. 1-3

BUFF PLYMOUTH ROCKS.

FIELD'S BUFF ROCKS won honors at Boston, Madison Square Garden, 1915. Cocks, hens, cockerels, pullets for any competition. Field, Somers, Conn. 12-3

BUFF ROCKS—Winners and layers. Poley Strain. Send for mating list. John Cheffer, 558 W. Merchant, Kankakee, Ill. 3

SHAPE, COLOR, PERFORMANCE are characteristic qualities of Lehman's "Premier" Buff Rocks. Broad guarantee with every bird sold. Eggs \$3. Circular. Ed. Lehman, Goshen, Ind. 3-5

HEISER'S ALL-GOLD Strain Buff Rocks of quality eggs, \$1.25 per 15 up; chicks \$2 per dozen. Mating list free. J. A. Heiser, Fisher, Ill. 3-5

BUFF ROCKS—LIMITED number eggs from pens headed by first and fifth cocks at Chicago, 1916. Mating list. F. W. Kramer, Fort Atkinson, Wis. 3-5

BUFF ROCKS—Choice farm raised birds. Eggs \$1.50 per 13. Write C. E. Price, Rochester, Mich. 3-4

BUFF ROCKS—ALL STAR matings. Write today for catalog. E. A. Stouvenel, Savanna, Ill. 3-5

BUFF ROCK EGGS. Send for mating list. Quality strain. \$3 per 15. Fine cockerels for sale, \$3. M. A. Banker, Dept "A," Fort Madison, Iowa. 3

BUFF ROCK WINNERS. 15 eggs, \$1.50. Andrew Huber, Route 5, Seymour, Ind. 3-5

MYRON WEAVER, Lewis, Iowa, exclusive breeder of Buff Rocks, winners at Omaha and Iowa State Fair and all local shows past 4 years. Stock and eggs for sale. Prices reasonable. 1-3

BUFF ROCKS, WINNERS and layers. Great shape, size and color. Cocks, cockerels, hens, pullets, chicks and eggs for sale. Chas. C. Reinhoel, North Lawrence, Ohio. 11-4

PARTRIDGE PLYMOUTH ROCKS.

AMERICA'S PROVEN CHAMPION Partridge Rocks and Bronze Turkeys. See our adv. on page 514. 5-15-1f

RIVERDALE PARTRIDGE PLYMOUTH Rocks won 20 awards in two shows. Eggs from 5 choice pens. Stock for sale. R. F. Schuler, Roann, Ind. 3-5

QUALITY BARTRIDGE ROCKS. Notzger strain. Eggs, \$2-\$2.50 setting. J. F. M. Greene, Hillsboro, Illinois. 3-5

PARTRIDGE PLYMOUTH ROCKS. Am offering my entire prize stock and matings at nominal prices. Two leading strains. Satisfaction guaranteed. Write. J. H. Cotton, Beaver, Pa. 3

PARTRIDGE ROCKS. Nofstzger strain. Eggs, \$1.50. Baby chix and stock. Write for mating list. Satisfaction guaranteed. Geo. Miller, Nappanee, Ind. 3-5

PARTRIDGE PLYMOUTH ROCK eggs for hatching. Satisfaction guaranteed. Write for free circular. John Saam, Mohawk, Mich. 2-4

PARTRIDGE PLYMOUTH ROCKS—Won first cock, first, second hen at Quincy; first cock at Chicago; First pen, first, second hen, first, second cockerels, first pullet at Kansas City. Write me your wants. Dr. Statler, Granger, Mo. 2-4

PARTRIDGE ROCKS from noted winners on approval. Price right. West View Farm, Columbia City, Ind. 2-3

PARTRIDGE PLYMOUTH ROCKS—Eggs from prize winners. Paul Wurtzel, Dept. 5, Freeport, Ill. 2-6

PARTRIDGE ROCKS—Eggs from large, vigorous stock, \$2 per 15; \$3 for 30; \$4 for 50; \$7 for 100. Hez. Kinter, Dillsburg, Pa. 2-4

PARTRIDGE PLYMOUTH ROCKS—Kentucky thoroughbreds. For the best, write Dr. J. Hogan Bray, Greenville, Ky. 2-4

PARTRIDGE ROCK COCKERELS, scoring 90 to 92, from \$2.50 to \$5.00. Wm. Burkhart, Sandwich, Ill., Box 410. 2-3

PARTRIDGE ROCKS—Winners. Scoring 90 to 94. Mating list free. L. C. Smith, Cushing, Ia. 3-5

WOODWARD'S PARTRIDGE ROCKS will please you. Winners at Madison Square Garden, Allentown, Inter-State Fair, Trenton. Breeding stock. Eggs for hatching. Mating list free. Henry J. Woodward, Newton, N. J. 3-5

PARTRIDGE ROCK EGGS—Extra fine matings. Prices reasonable. H. M. Haerling, Floris, Ia. 3-5

PARTRIDGE ROCKS— Nofstzger Strain, trap nested stock for sale. Dr. Kreider, Lena, Ill. 3

PARTRIDGE ROCKS—Ckls. from prize winning stock, \$3 and \$5 each. Eggs from Partridge Rocks, R. C. Reds and Black Red Games. \$2 per 15. Victor Samp, Hackett St., Beloit, Wis. 3-5

PARTRIDGE PLYMOUTH ROCKS—Cockerels and pullets at reasonable prices. Eggs \$3 per 15. Frank M. Wright, Williamson, N. Y. 3

SILVER PENCILED ROCKS.

I MAKE A SPECIALTY of Silver Penciled Rocks. My seventh year. Cockerels from prize winning stock \$3.50 up. Eggs \$2 to \$3.50 for 15. Satisfaction guaranteed. Eugene Ditzler, Davis, Ill. 3-5

PLYMOUTH ROCKS—SEVERAL VAR.

BUFF AND WHITE ROCKS. Eggs at farmers' prices. Buff baby chicks. Rachel Sheppard, Pearl, Illinois, R. 1. 3-6

PRIZE WINNING WINTER laying strain Partridge, White, Buff, Barred Rocks. Eggs \$2.50 for 15; \$4 for 30. J. P. Kraus, Farmington, Minn. 2-4

BUFF AND WHITE Rock cockerels. Eggs in season. Buff baby chicks. Rachel Sheppard, Pearl, Ill., Route 1. 3-5

ROCK BOTTOM ROCK Yards—All breeds Plymouth Rocks. Stock and eggs for sale. Plymouth, Ind. 3-5

RED CAPS.

RED CAPS FROM first prize winners, \$2 to \$10. S. Jones, Church Creek, Md. 3-4

ENGLISH RED CAPS exclusively. Imported and domestic. Fourteenth year. Eggs \$3 per 15; \$5 per 30. Circular free. H. G. Weidenfeller, Mineral Point, Wis. 3-5

RED SUSSEX.

RED SUSSEX—TRIOS, \$10, \$15 and \$25. Pens, \$20, \$30 and \$50. Eggs from as fine birds as the best, \$3 and \$5 for 15. Have just added the entire flock of one of the best breeders to my own flock. L. W. Crank, Elsberry, Mo. 3

FOR SALE—PRIZE STRAIN Red Sussex cockerels, \$3 to \$10. Eggs \$5. Thomas Murdoch, Galesburg, Ill. 3

RED SUSSEX. Get our descriptive circular and prices on stock and eggs. Quality the best. Highland Farm, Mt. Carmel, Ill. 2-4

RED SUSSEX EGGS for hatching; quality Mahogany Reds; carefully mated; many first prize winners. Send for descriptive Mating List. Eggs \$5 and \$3 per 15. Zeigler & Eldridge, Plymouth, Wis. 1-6

RED SUSSEX—Importers and breeders; 13 years' experience breeding fancy poultry. No culls in our pens. Eggs two-thirds off. Only \$5 for 15 now. Lauer Bros., Queen City, Mo. 2-4

RED SUSSEX—Greater Chicago and Missouri State Show blue ribbon winners; three grand pens. Eggs \$3 and \$5 per 15. Write for mating list. Fred Landgraf, Marissa, Ill., Box A. 2-5

RED AND SPECKLED SUSSEX—Write for prices on stock. Eggs in 50 and 100 lots. See large ad. Cobura's Red Sussex Farm, St. Clair, Mich. 2-16-17

RED SUSSEX—We prepay egg shipments and guarantee ten chicks to hatch. Our prices are low, guarantees most liberal, and we claim to have as good as the best Sussex in America—three important considerations. Four pens mated to produce that rich mahogany color. Circular. Walter G. Brown, Ipswich, Mass. 2-4

RED SUSSEX — Eggs and chicks from winners. Mating list now ready. E. B. Stacy, R. 3, Box 107 C, Lansing, Mich. 3-5

RED SUSSEX EGGS from our blue ribbon winners. Red Sussex Yards, 314 King Ave., Columbus, O. 3

RED SUSSEX—At Cleveland on 6 entries I won 5 places. Eggs for hatching. Bert Locke, Oberlin, O. 3-5

"NOBILITY" RED SUSSEX—Dark Mahogany, slate undercolor. Stock and eggs for sale, from first prize winners. L. W. Fowler, Wabash, Ind. 3-5

RED SUSSEX—Write for circular mating list. Sussex Yards, Alma Center, Wis. 3-5

RED SUSSEX—Grand mating. Limited number of eggs for sale, \$5 per 15. Thomas Bowen, Queen City, Mo. 3-5

RED SUSSEX — My mating list ready about January 1st. Write for it. Have imported 20 birds this Fall, which will help make up my pens. W. W. Graves, Jefferson City, Mo. 3-5

RED SUSSEX—Three firsts, one second. Rochester Show, January, 1916, 4 entries. Fine stock and hatching eggs reasonable. Quality Poultry Farm, Rome, N. Y. 3

SPECKLED SUSSEX.

SPECKLED SUSSEX. Eggs for hatching. Noah Herman, West Salem, Ohio. 3

TWO OR THREE SETTINGS of eggs for hatching from one of the strongest matings, of Speckled Sussex of the Northwest at \$10 per 15, after April 1st. John Blanchard, Columbus, Wis. 3-16-17

SPECKLED SUSSEX. Choice stock priced reasonably. Rev. W. Berberich, Groton, New York. 11-15-17

SPECKLED SUSSEX eggs, \$3 and \$5 per setting. W. T. Elrod, Marissa, Ill., Box A. 2-4

SUSSEX.—SEVERAL VARIETIES.

SUSSEX EGGS FOR hatching. All varieties, \$3.00 to \$15.00 per setting. Stock for sale. Dr. H. W. Conrad, Hackensack, N. J. 2-4

RED AND SPECKLED SUSSEX—The best blood obtainable. Stock and eggs for sale. Aug. D. Arnold, Dillsburg, Pa. 3

FOSTER'S RED, SPECKLED, Light Sussex. America's best expertly mated. Eggs \$3 and \$5. Catalog. G. E. Foster, Bloomington, Ind. 3-5

SPANISH.

FOR SALE—WHITE FACE Black Spanish eggs, 15 for \$1.50; 30 for \$2.50; 100 for \$5.00. Good stock for sale. Louella E. Jaqua, Portland, Indiana. 3-6

WHITE FACED BLACK Spanish stock from silver cup winners, \$2.50 and up. Eggs, \$2 per 15. J. R. Galloway, Elwood, Ind. 2-5

WHITE FACED BLACK Spanish eggs \$2 for 15. A. Moritz, Rahway, N. J. 3-5

BLUE WYANDOTTES.

BLUE WYANDOTTES—Imported direct from England, and exclusive breeder of Blue Wyandottes. Winners at the Panama-Pacific and Madison Square Garden, 1916, shows. Write for catalog. Cloyd C. Rose, Olney, Illinois. 2-4

BLUE WYANDOTTES. DIRECT importer from England. Grand in color, yellow legs. Eggs \$3 and \$5 per 15. Catalog. Frank Hendershot, Stevensville, Ontario. 3-4

BUFF WYANDOTTES.

BUFF WYANDOTTES. Standard bred and carefully selected for fifteen years. Stock and eggs. (National Club member.) Willis Brown, Slippery Rock, Pa. 3-4

BUFF WYANDOTTES—Owens has some good breeding and exhibition stock for sale at reasonable prices. Write your wants. Eggs \$1.50 to \$5 per 15. R. M. Owens, Shiloh, O. 3-5

HARDY FARM RAISED (Thorobred) Buff Wyandottes. Eggs in season. Clara Bodine, Walnut, Ill. 3

NOWATA FARM BUFF Wyandottes won everything at the last Erie Show November 22-27, 1915, Pa. Club meet. Silver cup and all special ribbons. Eggs \$2 per 15. Cockerels. R. A. Page, North East, Pa. 2-5

BUFF WYANDOTTES—Eggs from our Chicago winners, \$5 for 15. F. L. Waterman & Sons, Barrington, Ill. 3-5

BUFF WYANDOTTES exclusively. Eggs for hatching \$2 per 15. Jess. R. Parker, Vanceburg, Ky. 3-5

BUFF WYANDOTTES OF QUALITY—Eggs from silver cups winners at \$1.50, \$2 and \$3 per 15. Order from this ad. or send for mating list. Satisfaction guaranteed. William E. Woolley, Sidney, O. Route 5. 3-5

EGGS \$2 PER 15—Netzle's Famous Buff Wyandottes. Stock reasonable. Ben H. Netzley, Martinsville, Ill. 2-4

BUFF COLUMBIAN WYANDOTTES.

BUFF COLUMBIAN WYANDOTTES—A handsome new variety. Dr. Harwood, Malone, N. Y. 2-4

COLUMBIAN WYANDOTTES.

SPLENDID COLUMBIAN WYANDOTTE cockerels. Orders taken for day-old chicks and eggs. Alfred W. Budd, North Brookfield, Mass. 3

COLUMBIAN WYANDOTTES—Eggs from prize winners and utility stock at a living price. Fertility guaranteed. Marshall Jones, Rising Sun, Ind. 3-5

COLUMBIAN WYANDOTTES—Michigan's champions; won more blue ribbons at leading state shows than all competitors combined. Type, color and quality. Prices very reasonable. Eggs from six exhibition matings, \$2 and \$3 per 15. Fertility guaranteed. Mating list free. Arthur Schaaek, 605 Rohms Ave., Detroit, Mich. 3

COLUMBIAN WYANDOTTES — Bred to lay. 15 eggs \$1; 100 for \$5.50. Satisfaction guaranteed. Free circular. L. S. Spafford, Martville, N. Y. 3-5

COLUMBIAN WYANDOTTE EGGS—High bred stock. Cockerels from trap nested stock mated to hens that lay. S. M. Watkins, Walnut, Ill. 3-5

COLUMBIAN WYANDOTTES that showed their superior quality by winning more first, second and third prizes this season at Chicago, Minneapolis, Winnipeg and Minnesota State Fair, than all my competitors combined. Mating list free. Geo. A. Kersten, Washburn Park, Minneapolis, Minn. 3-15-17

PRIZE WINNING COLUMBIAN Wyandottes. A few choice hens, pullets and cockerels for sale. Booking orders for eggs. Miss M. Doll, Frankfort and Ewing Ave., Louisville, Ky. 1-3

COLUMBIAN WYANDOTTES exclusively. Choice stock for sale. Eggs and chix in season. Mating list free. Mrs. Jacob Gerig, Wayland, Iowa. 1-3

COLUMBIAN WYANDOTTES—Hatching eggs from prize winners and layers. R. C. Berkey, Salem, Ind. 2-4

COLUMBIAN WYANDOTTES—My birds won sweeping victory at Panama-Pacific Exposition—first cock, hen, cockerel, pullet. Also made great record Mountain Grove Laying Contest. Free booklet. Book egg orders early. J. O. Speed, 316 Chestnut, Webster Groves, Mo. 2-4

GOLDEN WYANDOTTES.

GOLDEN WYANDOTTES—Carefully bred for 23 years. Winners at Chicago, New York and wherever shown. Eggs, \$5.00. Replace infertile eggs. Few fine males. Frank Ward, 27 Nile St., Tiffin, Ohio. 3-5

FLETCHER'S GOLDEN WYANDOTTES—"America's Best Strain of America's Best Beauty and Utility Breed." Fine Winter layers. Blue ribbon winners at Madison Square Garden, Grand Central Palace, Boston, Buffalo, Pittsburgh, Baltimore, Washington, Philadelphia, Richmond, Va.; Columbia, S. C.; Atlanta, Ga., etc. Practically clean sweeps at two successive Garden Shows. Show room record unequalled. Line bred and bred to lay. Stock sold on approval. To get Golden more generally used have reduced prices of settings. Eggs from "Selected Champion" matings now \$5 for 15; limited. Eggs from choice "Exhibition" matings now \$3.50. No reduction for quantity. Infertile eggs replaced once. Order direct from this ad. if prompt delivery desired. Free illustrated booklet. Albert Fletcher, Jr., Drawer A-2, Warrenton, Va. 3

GOLDEN WYANDOTTES—Eggs \$1.50 per 15. O. W. Smith, Hopkinton, Ia. 3

GOLDEN WYANDOTTE Breeder 16 years. Eggs \$2 per 30, from best pen. Gerhard Hellman, 1512 Second St., Fort Madison, Ia. 3-5

GOLDEN WYANDOTTES — First cock, first hen, first cockerel, second pullet, first young pen, Cleveland Show, 1916. Cockerels, pullets and eggs for sale. F. C. Liles, Collins, O. 2-4

GOLDEN WYANDOTTE EGGS from pen winners at 5 shows, \$2 per setting. W. F. Burkitt, Benton, Ill. 2-4

GOLDEN WYANDOTTES. Cockerels, chicks, eggs. Mrs. Anna Chase, Centreville, Crawford Co., Penn. 2-4

PARTRIDGE WYANDOTTES.

YOUNG'S PARTRIDGE WYANDOTTES. Champions of Maine. Won every first and special offered at Sanford, Portland and Bangor. Eggs, \$2.00 per 15. B. H. Young, Bar Harbor, Me. 3-5

PARTRIDGE WYANDOTTES — Standard shape, color and penciling; Buff Orpingtons. Standard color. Eggs, \$1.50 per 15. James Scrubb, Urbana, Ohio. 3-5

PARTRIDGE WYANDOTTES—Eggs \$1.50 for 15. Circular. Wm. Shreve, Uhrichsville, O. 3-5

PARTRIDGE WYANDOTTES—Eggs from prize winning pens, \$1.50 per setting. Utility \$1; per 100, \$5. E. H. Casey, Ewing, Ill. 3-5

PARTRIDGE WYANDOTTES — Quality matings headed by first Chicago Coliseum and first Fort Wayne cockerels. Eggs \$5 and \$3 per 15. Description of matings on request. E. G. Lapham, Elkhart, Ind. 3

PARTRIDGE WYANDOTTES. Just won the Coliseum show, Chicago, first cock, second cockerel on three entries. Fine lot of cockerels sired by winning cock. Eggs in season. W. W. Day, Janesville, Wis. 1-3

PARTRIDGE WYANDOTTE EGGS—Winning quality, \$2 per setting; reduction for larger quantities. James L. Coulter, New Wilmington, Pa. 2-5

PREMIUM PARTRIDGE WYANDOTTES — A superior strain of winners and layers. Eggs or chicks. Mating list ready. Perle Larue, Goshen, Ind. 2-4

SILVER WYANDOTTES.

SILVER WYANDOTTES. Choice stock reasonable. Eggs, \$1.00 per 15; \$4.00 per 100. Mrs. Fred Schroeder, St. Peter, Ill. 3

SILVER WYANDOTTES—STRICTLY high class. Prize winners. Good layers. Score to 93. Eggs \$1.50 per 15; \$7 per 100. James Leggett, Hornsby, Ill. 3-5

SILVER WYANDOTTES and Rouen Ducks — 12 grand matings. Philadelphia, Buffalo and New York winners. Send for mating list. R. 2. M. H. Leidy, Souderton, Pa. 3-5

SILVER WYANDOTTES. Tarbox strain. Choice stock reasonable. August W. Schroeder, St. Peter, Ill. 11

SILVER WYANDOTTES exclusively. Good layers and well marked. Cockerels and pullets for sale at \$1 to \$3 each. Samuel Schroeder, Altamont, Ill. 1-4

SILVER LACED WYANDOTTES exclusively. Twenty-second year. Clear, black and white open lacing. Eggs from prize matings, \$1.50 per 15; \$2.50 per 30. Satisfaction guaranteed. A. D. Long, Blooming Glen, Pa. 2-5

SILVER LACED WYANDOTTE cockerels at \$3. Will score 86 or better. Eggs for hatching, \$1 per 15. U. Guy Eby, Cassapolis, Mich. 1-3

SILVER LACED Wyandotte hens and cockerels for sale and eggs in season. Mrs. C. W. Whitham, Fairfield, Iowa. 1-3

SILVER LACED WYANDOTTES—Cockerels large and beautiful birds, some weigh 8 lbs. Eggs in season. Jacob Gottfried, New Washington, O. 2-4

SILVER PENCILED WYANDOTTES—Winter layers. Eggs guaranteed. Order early. Also Rose Comb Ancona eggs. References. C. Kelsey, Imlay City, Mich. 2-4

SILVER WYANDOTTES exclusively. Blue ribbon winners for 15 years. Illinois State show 1914, seven entries, 4 firsts; 3 seconds; 3 specials; champion hen. Helfrich Brothers, Hammond, Ill. 2-4

WHITE WYANDOTTES.

REGAL DORCAS WHITE Wyandottes, bred to lay. Rare opportunity. Offer practically entire breeding stock. Cocks, Hens, Cockerels, Pullets; reduce plant account other business. Single birds, \$2.00 up; trios, \$5.00 up; pens, \$10.00 up. Satisfaction guaranteed. Order immediately. Edelweiss Poultry Farm, Sayville, N. Y. 3-4

WHITE WYANDOTTES, WHITE Orpingtons. Do not buy eggs until you have seen our mating lists. 100% fertility. Be one of our satisfied customers. J. A. Curzon, Champaign, Ill., Route 2. 3-5

TOM BARRON GUARANTEES English Wyandottes imported by me; have pedigrees of 275-283. Eggs, \$2.00 per 15. Circular free. Paul Frederickson, Holland, Mich. 3-4

WHITE WYANDOTTES, Martin and Fishel strain. Choice stock reasonable. August W. Schroeder, St. Peter, Ill. 11

WHITE WYANDOTTES—Bred to lay. Choice stock and hatching eggs for sale. Mating list free. E. Fetzner, Melrose Park, Ill. 3-5

"LAYMORE" STRAIN White Wyandotte eggs hatch out wonderful winter layers. Hens have 180-egg records or better. Eggs 20 cents each. Mating list free. C. W. Zelle, Appleton, Wis. 3-5

HACKER'S WHITE WYANDOTTES—Eggs from hens, pullets; cocks and cockerels scoring in show rooms by Judges Pickett, McClave and Ott, 94 to 96; per 15, \$3.50 and \$2. W. P. Hacker, Milledgeville, Ill. 3-5

WHITE WYANDOTTES—Prize winners. 15 eggs \$1. Special mating \$3 for 15. Geo. Reiling, Burnt Prairie, Ill. 3-5

WHITE WYANDOTTES—Fine range flock. Eggs 15 for \$1; 100 for \$5. Best hens mated to Keeler cockerels; 15 eggs \$2. Satisfaction guaranteed. William Brockley, Vermont, Ill. 3-5

WHITE WYANDOTTE COCKERELS—Full brothers to my state show and Decatur winners. Special price \$5 each. Pens including above winners now mated and 9 chicks guaranteed, at \$5 per setting. Carl M. Bailey, R. F. D. No. 7, Decatur, Ill. 3-5

WHITE WYANDOTTES—REGAL-DORCAS Strain. Bred to lay and win. Won wherever shown. Eggs, special mating, \$2 for 15; \$3 for 30; utility, \$1 for 15; \$3 for 50; \$5 for 100. Frank Hardwidge, Poneto, Ind. 3

"CHERRY CREST" WHITE Wyandottes. 12 year winners. 15 ribbons at 2d largest Michigan 1916 show. 15 eggs \$2. D. Wurtz, Muskegon, Mich. 3

WHITE WYANDOTTE EGGS from winners at Waukegan, Elgin, Melrose Park, etc. Write for prices. D. A. Edmunds, Waukegan, Ill. 3-5

WHITE WYANDOTTES—15 eggs \$1.50. Robson, 340 W. 61st St., Chicago, Ill. 3-5

WHITE WYANDOTTES—Prize winners and heavy layers. Eggs reasonable and satisfaction guaranteed. Mae Biggins, Marion, O., R. F. D. No. 7. 3-5

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CHOICE HEAVY LAYING White Wyandottes. 15 eggs \$1.50. Choice pen for sale, yearlings \$12. John Butters, Walden, N. Y. 3

NEALE BROTHER'S WHITE Wyandottes—Heavy Winter layers. Highest records of American Wyandottes at last two Connecticut laying contests. Write now for our new catalog. Neale Bros., Box 38 K, Apponaug, R. I. 3-5

FARM RANGE WHITE Wyandottes. Eggs \$1 per 15; \$5 per 100. Also stock. John Chambers, Seville, O. 3-5

JOHN A. BRUHN, Homer, Ill., breeder of Ideal White Wyandottes. Guaranteed eggs from large, heavy layers, \$1 per 15; \$5 per 100. 3-5

WHITE WYANDOTTES—Duston; extra fine. Winners Indianapolis, St. Louis. 15 eggs \$3. Fine, pure white, range flock, heavy layers, 15 eggs \$1; 50 for \$3; 100 for \$5. Herbert Smith, Route 8, Bluffton, Ind. 3-4

WHITE WYANDOTTES—Eggs for hatching. Circular. W. Sewell Painter, Bellefontaine, O. 3-5

WHITE WYANDOTTES—Maryland Beauty Strain. Six years careful breeding for quality, size and heavy layers. Eggs for setting. Fertility tested before shipping. Prices on application. A. C. Hayden, Price, Md. 3-4

HATCHING EGGS FOR SALE from heavy laying trap nested, Standard bred White Wyandottes, \$1, \$2 and \$3 per 15. Frances Mansfield, 1723 No. Ind. St., Kokomo, Ind. 3

WHITE WYANDOTTE EGGS from prize winners, \$5 per 15; pen 2, \$3 per 15. Farmoria, \$6 per 100. C. G. Van Buren, Victoria, Ill. 3-5

BRED TO LAY; bound to pay. Hatching eggs from 238-egg Barron Strain White Wyandottes; 85 per cent fertility guaranteed, \$1.50 per setting; express or parcel post prepaid. Write for booklet. Ashokan White Wyandotte Poultry Farm, Shokan, N. Y. 3-5

WHITE WYANDOTTE hatching eggs, \$1.50 per 15. J. A. Nelson, 4738 N. Springfield Ave., Chicago. 3

WHITE WYANDOTTES—Famous laying strain eggs, \$1 per 15. Mrs. Ch. Schnepf, Lakewood, Ia. 3-5

HIGH CLASS WHITE Wyandottes—John S. Martin Strain. Hatching eggs \$1 per 15; \$3 per 50; \$5 per 100. Wm. Remmert, St. Peter, Ill. 3

REGAL EGGS FROM trap nested hens. Matings are headed by sons of "Martin's" pens 5 and 10. Settings \$2, \$3. None are better. Why pay more. Frank D. Delaware, Massena, N. Y. 3-5

QUALITY WHITE WYANDOTTES, Regal strain. Heavy layers. Eggs for hatching. Write for mating list. Satisfaction guaranteed. Prices right. H. R. Stevens, Hymera, Ind. 2-4

SPRING BROOK FARM White Wyandottes famous laying strain. Eggs from choice matings of splendid layers, \$1.50 per 15; \$8.50 per 100. N. E. Robart, Caledonia, Mich. 2-4

GRAND VIEW STOCK FARM has 75 White Wyandotte cockerels at \$2, \$3 and \$5. From prize mated pens, range raised, large, vigorous and yellow legs. H. M. Scholl, Bremen, Ohio. 1-3

WHITE WYANDOTTES, Utility stock standard breeders and exhibition birds. Prices reasonable. G. A. Haper, R. 8, Batchtown, Ill. 1-3

WELLS' WHITE WYANDOTTES; famous laying strain. Eggs from choice matings of splendid layers, trap-nested, \$2 per 15; \$3.50 per 30; \$5 per 50; \$9 per 100. Satisfaction guaranteed. M. G. Wells, Box 7, Sellersburg, Ind. 1-4

PURE BRED WHITE Wyandotte cockerels; selected standard qualifications from bred-to-lay, trap-nested stock. Three dollars up. Yearling breeding hens \$2. Guaranteed. C. H. Comstock, Morgan Park, Ill. 1-3

PETERSON'S SUPERB WHITE Wyandottes; great layers. Silver cup winners. Wm. Almon Peterson & Bro., Galesburg, Ill. 2-4

THIRTEENTH YEAR—White Wyandottes exclusively. Farm range, pure white, standard weight. Eggs, 15, \$1.00; 50, \$3.00; 100, \$5.00. Stock in season. Mrs. O. Parmeter, Concord, Mich. 2-4

RUDY'S PERFECTION STRAIN White Wyandottes exclusively. Eggs from best matings, scoring not less than 91, \$2 per 15; \$4 per 50; \$8 per 100. Mrs. E. B. De Ment, Kenny, Ill. 2-4

PRIZE WINNING WHITE Wyandottes. Official egg record of dams, 209 to 247. Eggs \$3.00 per dozen. Otto Greef, Pittsburg, Kansas. 2-4

WHITE WYANDOTTES, Martin and Fishel strains. Eggs, \$5.00 per 100. J. Wolf, Wheeler, Ill. 2-4

WHITE WYANDOTTES, Fishel strain. Eggs for hatching. Mating list free. Satisfaction guaranteed. Edw. C. Wiesenborn, Grand Chain, Illinois. 2-4

REGAL WHITE WYANDOTTES, Exhibi- tion and Utility. Hatching eggs reasonable. Sidney H. Smith, 100 Oak St., Laconia, N. H. 2-4

WHITE WYANDOTTE eggs; from pens, \$2 per 15; utility flock, \$3 per 50, \$5 per 100. Birds are all snow white, yellow legs and beaks, true Wyandotte shape. Henry Walther, R. 3, Clinton, Indiana. 2-4

WHITE WYANDOTTES, bred to lay, extra good stock, carefully mated. Eggs, \$1.50 per 15; \$7.50 per hundred. Satisfaction guaranteed. E. E. St. Clair, Box 44, Downing, Mo. 2-4

WHITE WYANDOTTES THAT win. Thirty grand cockerels for sale from my Kansas City and Omaha winners. Eggs for hatching. See ad on another page. Dr. C. P. Liegecot, Red Oak, Iowa. 3

WINNEBAGO WHITE WYANDOTTES—Famous Keeler and Fishel strains. Eggs for hatching from trap-nested stock at \$2.00 and \$3.00 per setting. Order early. Albert March, Jr., Dept. D, Oshkosh, Wis. 3-5

ROSEMOUNT WHITE WYANDOTTES. Profusely illustrated catalog now ready. Get acquainted with the ever-better kind. Franklin, Pa. 2-7

BARGAIN EXTRAORDINARY. At the Milwaukee Show, January 21st to 26th, 1916, a show that compared favorably with The Coliseum, in White Wyandottes I won 5 out of 6 firsts in the second largest class in the show. I won 1st and 5th cocks; 1st and 2nd hens; 1st cockerel; 1st and 2nd pullet, and 1st old pen. If you question the quality of my Wyandottes, write Judges W. C. Pierce, Theodore Hewes, or Mr. Wells. I have 8 pens mated of the very best Wyandottes in the country, and I will sell eggs from these pens in limited numbers at \$3.50 per setting of 15 eggs—not more than 2 settings to any one customer. If you are interested, place your order early. Frank E. Hering, South Bend, Ind. 3

QUALITY WHITE WYANDOTTES, Eggs \$1.50 per 15. G. A. Howe, Waterloo, Ind. 3-5

WE HAVE A TRADE that quality made on our heavy winter laying strain of White Wyandottes. That's what we keep them for and they pay their keep. Vigorous and healthy. Stock, baby chicks and eggs. Write us. E. F. Wann & Son, Silverwood, Ind. 3

WHITE WYANDOTTE EGGS, Individual records up to 100 eggs 135 days, mated to 200-egg cockerels. G. W. Schottmann, Montrose, Ill. 2-4

WHITE WYANDOTTE cockerels. High class exhibition and utility stock. Bred from winners and will produce winners. Dr. Rolla Hook, Logan, Iowa. 2-3

WYANDOTTES — SEVERAL VARIETIES.

EGGS—BUFF AND Columbian Wyandottes, best \$2.25, good \$1.50 for 15. Postpaid. C. E. Abbott, Warrenton, Ga. 3-5

SEVERAL BREEDS.

PRIZE BLUE RIBBON WINNERS of 1915 and 1916. Hatching eggs from S. S. Hamburgs, Non-bearded Golden Polish, Houdans, S. C. Black, White and Buff Leghorns, Carl Staack, Fancier, Breeder and Exhibitor, 6136 Giddings St., Jefferson Pk., Chicago, Ill. 3-5

VICTORIA POULTRY ASSOCIATION—Eggs per 15: Buff Rocks, \$2.00; R. C. Rhode Island Reds, \$1.50; White Orpingtons, \$1.50; S. C. Rhode Island Reds, \$1.50 and \$3.00; White Rocks, \$1.50; Buff Leghorns, \$1.50; Barred Rocks, \$2.00 up; White Wyandottes, \$1.50 to \$5.00. C. E. Van Buren, Sec'y, Victoria, Ill. 3-5

CHICKENS—MONTH OLD, past danger, from heavy laying trap-nested Buff Rocks, Columbian Wyandottes, S. C. Buff Leghorns with great show records. 16 years a breeder. Oren Haynes, South Colton, N. Y. 3-5

THE TWO GREATEST BREEDS for all year round laying, Single Comb Anconas and Buff Leghorns. Bred for shape and color. Have nothing but select stock. Eggs, \$1.50 for 15; \$2.50 for 30. Write for prices in 100 lots. Edwin W. Phillips, Mattoon, Ill. 3-5

S. C. REDS, AMERICAN Dominiques. Eggs, \$2 setting. D. Baker, Wortendyke, N. J. 3-5

SUMATRAS, ORPINGTONS, White Rocks. James A. Daley, Licensed Poultry Judge, Mohawk, Mich. 11-15-1 yr

60 VARIETIES PRIZE winning geese, ducks, turkeys, chickens, pea fowls, guineas. Stock and eggs cheap. Write wants. F. J. Damann, Farmington, Minn. 2-4

FOR SALE 100 S. C. White Leghorn and White Wyandotte Cockerels. Winners at Aurora, Rockford, Belvidere and Batavia. Maple Lawn Poultry Yards, Hinckley, Ill. 1-16-1f

PREPAID \$1.25 PER 15 eggs. Circular free. Honest Deal Poultry, Eitzen, Minn. 1-3

EMBDEN GEESE, MAMMOTH Pekin ducks, English Penciled Indian Runner ducks. Mrs. Geo. W. Dunn, Aledo, Ill. 1-3

CLASSY WHITE ORPINGTON cockerels for sale, Aldrich strain, \$2 to \$5. Buff ducks. Cat. free. Morgan Bros., DeLand, Ill. 1-3

CATALOG FREE. Variety of fine poultry, turkeys, geese, ducks, guineas, bantams, pups, hares, eggs, low. Book 66. Pioneer Farm, Telford, Pa. 2-4

DARK BRAHMAS, BUFF and Partridge Cochins. Winners of first, specials for shape, color and champion prizes at the leading shows, including state show. Stock for sale. Eggs in season. Prices reasonable. H. C. Weinrich, Cambridge, Illinois. 2-4

EGGS, \$1.00 per 15; \$2.00 per 40. Brahmas, Rocks, Reds, Leghorns, White Orpingtons; eggs, \$1.50 per 15. Catalog free. S. G. Bealer, Coopersburg, Pa. 3-5

ROCKS, WYANDOTTES, Leghorns, Hamburgs, Pekin, Muscovy, Mallard ducks, geese, turkeys, guineas. Free catalog. B. F. Kahler, Hughesville, Pa. 3-5

JUST OUT—1916 free catalog. Nineteen combined mating lists, 31 varieties. Before buying eggs or stock, get one. Sussex Co-operative Poultry Yards, Sussex, Wis. 3-5

WHITE ROCK, WHITE Leghorn and Light Brahma hatching eggs; also cockerels. Good layers. Pure blood healthy stock. J. Earl Hoover, Staunton, Va. 3

EGGS—BUFF ORPINGTON, Rose Comb Reds \$3 and \$1 per 15. White Indian Runners 15 for \$1. Grothe Farm, Le Roy, Minn. 3-5

WRITE FOR MATING list of my World's Fair winners. Partridge Wyandottes and Partridge Plymouth Rocks. E. E. Hyatt, White Hall, Ill. 3

WHITE WYANDOTTE, S. C. Leghorn breeders. Two-year-old 180-egg record hens mated to cockerels from 200-egg record hens. Eggs 10 cents each. Southview Farms, Plymouth, Ind. 3-5

ALL VARIETIES LAND and water fowls. F. C. Wilbert, Grand Rapids, Mich. 3-5

LIGHT BRAHMAS, BUFF Cochins, White Rocks. Fine, large range birds. Bred for 15 years for laying quality. Eggs for hatching, \$1 per 15. Edward Lindsey, Industry, Ill. 3-5

EGGS \$1 FOR 15, ALL varieties. Rocks, Reds, Wyandottes, Orpingtons, Leghorns, Minorcas, Campines, etc. Breeders. Expert judge in attendance. Washington Farms, Washington, N. J., Box D. 3-5

ROUEN DUCKS and Buff Rocks. Yards headed with San Francisco and Dayton winners. Eggs \$2 per 11 and 13 respectively. Send your orders to Edw. Davidson, Carey, O. 3-5

WRITE FOR MATING list of Robertson's Black Orpingtons, White Leghorns and Buttercups. J. C. Robertson, Galion, O. 3-5

PARTRIDGE WYANDOTTES, White Wyandottes, Brown Leghorns. Eggs \$1.25 per 15. Tom Hill, Ewing, Ill. 3

LAKENVELDER AND SILVER Campines. Eggs \$1.50 per 15. C. E. Hathaway, Sheffield, Pa. 3

FROM PRIZE WINNERS — Wyandottes, Hamburgs, Polish, Leghorns, Games, Langshans, Spanish, Rocks, Campines. S. Jones, Church Creek, Md. 3-4

BABY CHICKS AND eggs for hatching. Barred Rocks, Single Comb Reds and White Leghorns. Chicks 12c each; eggs \$1.50 and \$2 per 15. Price cards free. Crescent Farms, Champaign, Ill. 3-5

ANCONAS, CAMPINES, R. C. Reds, Pekin ducks, Toulouse geese. New York, Chicago, Kansas City, Cleveland, Hagerstown winners in this year's pen. Emmett Pickett, Princeton, Mo. 3-4

ROSE COMB BLUE Andalusians, Golden Campines, Spangled Orpingtons. Eggs \$1.50 per 15. F. E. Pritchard, Tekonsha, Mich. 3-5

EGGS—SETTING \$1.50, from Partridge Wyandottes, White Plymouth Rocks, Pekin, Rouen, Buff Orpington Ducks. Circular free. S. C. & C. E. Weaver, Lake Park, Ia. 3-5

BEST MONEY MAKING varieties, runner ducks and chickens, strains. Guaranteed eggs. Catalog free. Golden Rule Poultry Farm, Ridgway, Ill. 3

S. C. ANCONAS, Black Langshans. Grand Winter layers. Eggs \$1.50 per 15. Charles Staats, Chester, Ill. 3-5

85 VARIETIES STANDARD bred land and water fowl. Hatching eggs \$1.50 per 15. Blue Ribbon Poultry Farm, Sauk Center, Minn. 3-4

REGAL WHITE WYANDOTTES — Winners, record layers. Young's S. C. W. Leghorns. Headed by grandsons of Victor. All birds trap nested. Eggs \$3 for 15. Satisfaction guaranteed. Henry Jones, Derby, N. Y. 3-5

COCKERELS FOR SALE. \$3.00 and up. White Wyandottes and Single Comb Reds. High class exhibition and utility. Winners at the State Fair, Streator Fair and at the Quincy Show, 1915. Eggs in season, \$3.00 per 15, and up. Illinois State Reformatory Poultry Farm, Hector McAllister, Mgr., Pontiac, Ill. 2-4

EGGS, 15, \$1.00; 40, \$2.00. Thorobred Rocks, Wyandottes, Reds, Leghorns, Hamburgs; 19 varieties. 35 years experience. Catalog. White Orpingtons, Houdans, Brahmas, 13, \$1.00; 30, \$2.00. S. K. Mohr, Coopersburg, Pa. 2-5

BABY CHICKS.

BABY CHICKS—THIRTY leading varieties, \$12.00 to \$18.00 per 100. Safe delivery guaranteed. Hatching eggs, \$1.50 per 15; \$5.00 per 100. Catalog free. Miller Poultry Farm, Box T, Lancaster, Mo. 3-5

BABY CHICKS AT SPECIAL prices from Rhode Island Reds that averaged over fifty per cent egg production all winter—the only kind that pay. Both combs. Anderson's "Penn View" Farm, Pattenburg, N. J. 3-5

TOM BARRON STRAIN English Leghorn chicks from trap-nested stock. March and April, \$11.00 per 100; May, 10.00; June, \$9.00. Also hatching eggs. W. L. Sarson, Belvidere, N. J. 3-5

DAY-OLD CHICKS — White and Brown Leghorns, \$9.00 and \$8.00 per 100 chicks. Ralph Lamer Hatchery, Zeeland, Mich., Box 122. 3-5

10,000 DAY-OLD CHICKS — Cornish and Young strain S. C. White Leghorns, March hatched, \$14.00 per 100. Satisfaction, safe and full delivery guaranteed. Send orders new. Ravenswood Poultry Farm, 3357 Foster Ave., Chicago, Ill. 2-4

BABY CHICKS—Barred Rocks \$10 per hundred. Mrs. F. Unger, Route 1, Lewisburg, O. 3-5

BABY CHICKS FROM my Young's Strain Single Comb White Leghorns, bred for size. Vigor and heavy egg production. Satisfaction guaranteed. Large orders filled. Catalog free. Holland Hatchery, W. Van Apple-dorn, Holland, Mich. 3-5

BABY CHICKS—Any quantity. Laybitt S. C. W. Leghorns only. Everfresh Egg Farm, Ionia, Mich. 3

PURE BRED SINGLE COMB White Leghorn baby chicks, 10c to 15c each; 100 eggs \$5. Orchard range. Breeders commenced laying before December. Send for folder. Elmer Shaw, South Haven, Mich. 2-4

PEDIGREE ROSE AND SINGLE Comb Brown Leghorn and Barred Rock baby chicks; 236-egg strains, highest quality; trap nested; bred to lay stock. Safe arrival and satisfaction guaranteed. Write for catalog No. 20 and order early. "Cedarcroft," Madison, Conn. 3

BABY CHICKS AND ducklings. Single Comb White Leghorns 10c each; Pekin ducks 20c each. White Feather Poultry Farm, Ransomville, N. Y. 3-6

S. C. WHITE LEGHORN Baby Chicks. You positively cannot afford to place your order for baby chicks before writing for our illustrated book on the new up-to-date way. We raise them for you for the first twenty days at our expense. We tell how you can clear over \$11 per day on 500 of our pullets by next November. Positive proof. No fancy figures. It will pay you to investigate. Twelve years in perfecting one strain. Write now. Kerlin's Grand View Poultry Farm, Center Hall, Pa. 1-3

BABY CHICKS, 8c and up; expressage paid; 10 varieties. Order now for early delivery. Sale sheet free. Fine stock. South Kenton Poultry Farm, Kenton, Ohio. 2-5

CHICKS AND EGGS. Express prepaid. Cheapest hatchery. Highest recommendations. Ten varieties. Hundreds best quality. Classy dollar pullets. Order now. Cedar Hill Farm, Saugerties, N. Y. 2-3

FIFTY THOUSAND STRONG CANDEE hatched S. C. White Leghorn chicks for sale from our Barron and Young strains. We are importers and breeders of English Leghorns. Mating list free. Devries' Leghorn Farm, Zeeland, Mich., Box 202. 1-3

PEDIGREE LEGHORN COCKERELS, \$4. Booking orders for eggs and chicks, April delivery. Leghorns \$11 per 100. Barred Rocks and R. C. Reds \$15. White Wyandotte hatching eggs. Free booklet. E. R. Hummer & Co., R. D., Frenchtown, N. J. 1-3

BABY CHICKS AND EGGS from high scoring birds, heavy egg production. Laken-velders, Black Minorcas, White Leghorns, Anconas, White Rocks, Barred Rocks. Safe arrival guaranteed. Catalog free. John Geiger, Chatfield, Ohio. 1-3

CHICKS FROM SOME of the finest stock in the country. White and Brown Leghorns, Barred Rocks and Anconas. Prices right and safe arrival guaranteed. Catalog free. Wyngarden Hatchery, Zeeland, Mich. 1-3

BABY CHICKS, S. C. W. Leghorn Wyck-off strain, \$10 per 100. Strong and well hatched. Mature breeders. Eggs \$4 per 100. Satisfaction guaranteed. Clint Hesser, Winchester, Ind. 1-3

BABY CHICKS. S. C. W. and S. C. B. Leghorns, Barred Plymouth Rocks, Rose and Single Comb Reds. All from pure bred free range stock, at let-live prices. Colony breeders. Catalog free. The Houck Hatchery & Breeding Co., Desk 2, Tiffin, Ohio. 1-3

THE CRYSTAL HATCHERIES are now hatching chicks. We will have thousands of White Leghorns, Brown Leghorns, White and Barred Rocks, Rhode Island Reds, White Wyandottes and Orpingtons for March, April and May delivery. If you want chicks that have egg records behind them we will book your order free of charge. Thousand lots our specialty. Information free. Chicago office, 300 West Van Buren Street, Chicago, Ill. 2-4

BABY CHICKS FROM my J. W. Parkes bred-to-lay strain Barred Rocks; bred for size, vigor and heavy egg production. Also eggs for hatching. Mrs. Will Bugg, Assumption, Illinois. 2-4

BABY CHICKS AND DUCKLINGS—Ten varieties, 10 to 15 cents each. Safe arrival guaranteed. Illustrated catalog free. Sunnyside Poultry Farms, Cromwell, Ind. 2-3

BABY CHICKS FROM STANDARD bred S. C. White and Brown Leghorns, bred to lay large white eggs, \$9.00 per 100; \$85.00 per 1000. Safe arrival guaranteed. Catalog free. Wolverine Hatchery, Box 2221, Zeeland, Mich. 2-5

CHICKS, 10,000 EACH WEEK, 7 cents each and up. Rocks, Reds, Leghorns. Safe arrival guaranteed. Nittany Valley Poultry Farm, Mingoville, Pa. 2-4

PEERLESS CHICKS are easy-to-raise, sure-to-live. Shipped successfully anywhere. Satisfaction and safe delivery positively guaranteed. Leading strains of Leghorns, Plymouth Rocks, Reds, Wyandottes and Orpingtons, 10c up. 50c book on raising chicks free to all customers. Write for descriptive literature. Peerless Hatchery, 4537 S. Sacramento, Chicago, Ill. 2-4

WHITE EGG FARMS baby chick. Wyck-off strain, as good as the best, \$10.00 per 100. Also hatching eggs and stock for sale. William Clarke, Mt. Vernon, Ill., R. 8. 2-4

Comb White Leghorns, Chicks that live \$10 per 100. Richard Schwartz, Lomira, Wis. 3-6

BABY CHICKS—Single Comb White Leghorns, choice stock of the best laying strains. Satisfaction and safe delivery guaranteed. \$10 per 100; \$90 per 1,000. Harry Palmer, Middleport, N. Y. 3

CHICKS—8c; 100 eggs \$3.50. Thirty breeds. Victor Frey, York, Pa. 3

BABY CHICKS—High class Single Comb White Leghorns \$12 per 100. Eggs \$5. Eggland Egg Farm and Hatchery, Mt. Vernon, Ia. 3-5

FOR SALE—DAY OLD chicks, 8 cents each. Eggs, eight standard varieties, 8 cents each. Select matings. 120-egg copper tank incubator, \$8.50. Freight prepaid. Golden Rule Incubator Co., Middletown, Ind. 3-5

50,000 BABY CHICKS — Three and six weeks chicks. S. C. White, Buff, Brown Leghorns, Black Minorcas, Barred Rocks. Hatching eggs. Catalog, stamp. Failing Poultry Farm, La Fargeville, N. Y. 3-6

CHICKS \$9.50 A HUNDRED. Seven varieties. Catalog free. La Vergne Hatchery, Box 406, Berwyn, Ill. 2-4

BABY CHICKS and ducklings. Prices and catalog free. East Saugatuck Hatchery, East Saugatuck, Michigan. 2-4

THIRTY-FIVE THOUSAND S. C. White and **Buff Leghorn** baby chicks. Young, Cypher's and Heasley's strains. 215 to 240-egg pedigree. Trapped for winter eggs. Candee hatched. Ten cents up. Booklet free. Alexander Klooster, R. 2, Hudsonville, Mich. 2-4

BABY CHICKS. Young's strain. White Leghorns, 9c; Brown Leghorns, 9c; Barred Rocks, 11c each. M. Knolls Hatchery, Holland, Mich. 2-6

DUCKS.

MAMMOTH PEKIN DUCKS—Prize winners. \$1.50 per 12 eggs. Mary A. Hire, Rural Route 1, Anderson, Ind. 3

ROSEMOUNT DUCKS! DUCKS!! DUCKS! Six varieties. Catalog now ready. Franklin, Pa. 2-7

HATCHING EGGS—White and Colored Muscovy ducks. Blue ribbon winners. Pens headed by 14-lb. drakes. L. Hammond, Burnt Hills, N. Y. 3-5

BUFF DUCK EGGS, \$1.50 per 24. I will replace infertile eggs. Alex J. Fix, Monroe, Mich. 3-5

INDIAN RUNNER DUCKS—White eggers. \$1 for 15 eggs, prepaid; 100 for \$4 by express. W. E. Moore, Beallsville, Ohio. 3

WHITE RUNNER DUCKS—Heavy layers. White eggs, 28 for \$2.00. W. R. Scrivner, Dahlgren, Ill. 3-5

FIRST MADISON SQUARE Runner eggs, three varieties. Circular free. "Hatching Ducklings." Gaebel Brothers, Morristown, N. J. 3

WHITE PEKIN DUCK eggs, 10c; ducklings, 20c. Woodford Poultry Farm, Route 10, Cincinnati, O. 3-5

WHITE PEKIN DUCK eggs, \$1.00 per setting. Extra fine stock. R. L. Crigler, Covington, Ky. 3-5

PEKIN DUCK EGGS from first prize winners Greater Chicago Show, 1916. White egg strain. Farm raised, vigorous stock. Orders booked now for young breeders. Prices reasonable. Alfred Hobein, Barrington, Ill. 3-5

PURE WHITE INDIAN Runner Duck eggs from first prize winners. "Every-day" layers of pure white eggs. I guarantee to please you—everybody. Mrs. S. F. Bullard, Harvel, Ill., R. 2. 3-5

MY ROUENS NEVER fail to win wherever exhibited. Prices reasonable. Eggs in season. B. M. Owens, Shiloh, O. 3-5

MAMMOTH PEKIN DUCK eggs, \$1.25 setting. Woodland Farm, New Lenox, Ill. 3-5

BUFF ORPINGTON DUCKS—Eggs, first pen, \$2, and second pen \$1 per setting; \$6 per 100. T. P. Leland, New Connerstown, O. 3-5

IF INTERESTED IN REAL runners, look for my ad on page 560. 3-5

MAMMOTH PEKIN DUCKS—(Rankin). Eggs from choice stock, \$1 per 12; 100 for \$6. Springbranch Poultry Farm, Belleville, O. 3-5

SEVILIAN DUCKS—300-egg duck. Whitest ducks known. Catalog. Welday (Originator), Seville, O. 3-4

BLUE MUSCOVY DUCKS—This new variety is proving very popular. A limited number of eggs for sale. Orders filled in rotation. F. G. Hasselman, Central Ave. and 34th St., Indianapolis, Ind. 3-5

TRUE FAWN AND WHITE Runner ducks. 13 eggs \$1. W. H. Settle, Gridley, Ill. 3-5

WHITE RUNNER DUCKS—Good type white egg strain. Booklet free. C. & N. Cleaves, Timewell, Ill. 3-5

DUCKS—ONLY DUCKS. If your chickens don't lay enough eggs to pay you, raise ducks from a strain that will. Indian Runners and Buff Orpingtons. Booklet free. Write today. Walter Raushenberger, Souderton, Pa. 3

WHITE INDIAN RUNNED ducks—(Valentine-Spencer Strain) Laying large white eggs \$2; eggs, 12 for \$1.50. W. A. Thompson, Scottsburg, Ind. 3-4

UPRIGHT RACY WHITE Runner ducks—White egg strain. Excellent layers. 15 eggs \$1; 100 eggs \$5. Leroy McKinzie, Independence, Ind. 3-5

ROUEN DUCKS, 10 and 11-lb. strain. Chicago Great Mid-West Show, two entries, first prize cock, first prize pullet. I can please you size, quality, price. Harvey Young, Osco, Ill. 1-3

WHITE RUNNER DUCKS—Simpson's white egg strain, 13 for \$1; 100 for \$5. Lela Mahon, St. Peter, Ill. 3-5

PEKIN DUCKS, Rankin stock, for sale. Egg orders booked for early delivery in settings of hundred and thousand lots. August W. Schroeder, St. Peter, Ill. 11

WHITE AND COLORED Muscovy ducks, \$1.25 each. Nice large birds. John Hass, Bettendorf, Iowa. 1-3

FIRST OLD PEN Giant Rouens at Indianapolis last show. Eggs, 15, \$3.00; 30, \$5.00. J. N. Orr, Akron, Ind. 2-4

FOR SALE—MAMMOTH White Pekin duck eggs for hatching. High fertility. Over 86,000 ducks last year. Positively the finest stock in the country. Command a premium in every market. Seventeen years in the business. Crystal Spring Poultry Co., Oil City, Penn. 2-4

FANCY WHITE INDIAN Runner duck eggs at \$1.00 per 12. Bred from Chicago Coliseum winners. Geo. A. Rigler, Bentonsport, Iowa. 2-4

WHITE INDIAN RUNNERS with upright racy carriage. Prize winners. Great layers, large white eggs, 15, \$1.50; 50, \$3; 100, \$5. Circular on feeding ducklings free. B. F. Morgan, Independence, Indiana. 2-4

BABY DUCKLINGS, White Runners, Fishel strain, 16, \$4; 25, \$6; 50, \$11. One setting eggs, \$1. Orders booked. Circulars free. Sunflower Poultry Yards, Grafton, Ill. 2-3

FAWN AND WHITE, also pure White Runner ducks for sale. August W. Schroeder, St. Peter, Ill. 2

BUFF DUCKS, Prolific layers, large white eggs. Won all firsts, three seconds Tri-State Fair, Memphis, 1915. Eggs, \$1.50, \$2.50, \$3.50 per 13 delivered. Good hatch guaranteed. W. S. Alley, Forrest City, Ark. 2-5

OUR WHITE EGG BUFF Orpington ducks out-lay Runners. Catalog describing 250-egg female, special matings, guaranteed to produce winners at any show, complete history, free. Eight years the world's leading breeder. Welday, Seville, Ohio. 2-4

PEKIN, PENCEILED ENGLISH and pure White Runner baby ducks, 25c each. Selected eggs for hatching and breeders. \$1.75 per dozen. M. J. Smith, Redford, Wayne Co., Michigan. 2-4

WHITE RUNNERS, Eggs and stock for sale. Eggs, 15, \$1.00; 50, \$3.00; 100, \$5.00. Pure white eggs, stock trio, \$5.00. Satisfaction guaranteed in every transaction. C. W. Michael, Independence, Ind. 2-4

PRIZE WINNING BUFF DUCKS, Stock and eggs for sale. Ed. Weinrich, Geneseo, Ill. 2-4

EGGS.

WANTED TO BUY—White eggs, must be very clean. If fancy poultry farm product, communicate with the Tebbetts & Garland Store, 16-18 N. Michigan Ave., Chicago. 1-3

GEESE.

LARGE EMBDEN GEESE, Eggs, 20 cents each. A. O. Range, Plattsmouth, Neb. 3-4

MAMMOTH BUFF, PIED Buff geese, Buff Orpington ducks. Jacob Leatherman, Wadsworth, Ohio. 3-5

WILD GEESE—\$10 a pr. Pea fowl. Aylesbury Dux. Dawson Bros., Franksville, Wis. 3-5

MAMMOTH TOULOUSE GEESE—High scoring first prize winners. Eggs 30 cents each. Fred Scholl, Memphis, Ind. 3-5

MAMMOTH BUFF GEESE are largest. Eggs catalog. Welday, Seville, O. 3-5

MAMMOTH TOULOUSE GEESE—(Davidson) Eggs 35c each. Springbranch Poultry Farm, Belleville, O. 3-5

LARGE TOULOUSE GEESE—Eggs from winners. Circular. P. Pfouts, Bucyrus, O. 3-5

TOULOUSE, THE NICE, big, showy kind that everybody wants. Money makers. Otto Motry, Kansas, Ohio. 1-3

EMBDEN GEESE, Large bone. Standard bred stock for sale. Robert McCarty, Winchester, Ill. 1-3

TOULOUSE GEESE of the highest quality. Winners wherever shown. At San Francisco they won three 1st and one 2d on 4 entries. Send to Lick Run Poultry Farm if you want quality. Address Edw. Davidson, Carey, Ohio. 1-3

EMBDEN GEESE, \$3 each. White Muscovy ducks \$2 each. Sparling Sisters, Garden Grove, Iowa. 1-3

AFRICAN AND TOULOUSE goslings and geese from New York winners. Circular. Roy Pardee, Islip, N. Y. 1-3

PRIZE WINNING MAMMOTH Buff geese. Stock and eggs for sale. Ed. Weinrich, Geneseo, Ill. 2-4

TURKEYS.

AMERICA'S BEST Breeding Giant Bronze Turkeys. See our advertisement on page 514. 2-15-16

ONE TRIO MAMMOTH Bronze turkeys \$20. Mrs. E. E. Mark, Stronghurst, Ill. 3

WHITE HOLLAND TURKEYS, Eggs, \$3 per setting of 11. Also a yearling tom for sale. W. A. Smith, Burnt Prairie, Ill. 3-5

MAMMOTH BRONZE TURKEYS, Large boned, handsome plumage. Eggs, \$3 per 12. Mrs. Fred Baynes, Salem, Indiana. 3

BOURBON RED TURKEY eggs for hatching. Director American Bourbon Red Club. Noah Herman, West Salem, Ohio. 3

WHITE HOLLAND TURKEYS, Having changed my location, I am more able to furnish you with fresh eggs from my pure bred birds. Eggs, \$2.50 per 11. Rose Comb Brown Leghorns, \$1.00 per 15; \$5.00 per 100. Frank Shetler, Vienna, Ill. 3-5

SUCCESSFUL POULTRY FARM—They are here for you. White Holland turkey eggs from pure white birds, 11 eggs, \$2.50, prepaid. Let us book your order early. Mrs. Roy Davisson, Sabetha, Kans. 3-5

MAMMOTH BRONZE—Sired by New York and Chicago winners. Hens, \$5 up; toms, \$7 to \$8. F. J. Rosenberger, Tiffin, O., R. 9. 3

BOURBON RED TURKEY eggs from good birds, \$3.50 per 12. Grace Baynes, Salem, Ind. 3

LARGEST WHITE HOLLAND turkey breeding flock in Indiana. 35-pound toms, 21-pound hens. Eggs, 11 for \$2.50. Circular free. J. C. Hodges, Waterloo, Ind. 3-5

MORGAN'S GIANT Bronze turkeys. Prize winners with enormous bone and fine markings. Eggs our specialty. Circular giving prices won free. B. F. Morgan, Independence, Ind. 3-5

MAMMOTH BRONZE TURKEY toms; farm range; good stock, \$5. Eggs in season, \$2.50 per 12. Sunny Side Poultry Yards, established 1890, Calumet, Wis. 3

MAMMOTH WHITE HOLLAND turkey, won first, also champion, at state show at DeKalb. Pure white, large boned. A. H. Floyd, Golconda, Ill. 3-4

MAMMOTH BRONZE 55-pound strain. Winners at Madison Square, St. Louis, Chicago. Eggs 50c each. Lorenz & Co., Perryville, Mo. 3-5

MAMMOTH BRONZE, grand sire first prize tom of Chicago, weight 50 lbs. Young and old stock for sale. Pullets, \$4.00 up; toms, \$6.00 to \$10.00. Eli Rosenberger, R. 9, Box 26, Tiffin, Ohio. 12-3

BRONZE TURKEYS of superior type. Chicago, New York and state show winners. Also Buff Rocks, Chicago winners. Rothgeb Bros., Milford, Ill. 1-3

FINE BUFF TURKEYS for sale. Write Everett Goodwin, Potomac, Ill. 1-3

MAMMOTH BRONZE TURKEYS, big bone and fine markings. Card will bring prices and particulars. Otto Motry, Kansas, Ohio. 1-3

WHITE HOLLAND TURKEYS, Winners Illinois State Fair, San Francisco, Cal., and Chicago, Ill., 1915. Write Southern Slope Poultry Farm, Box A, Jacksonville, Ill. 1-4

BOURBON RED TURKEYS, Hens, \$3.50; toms, \$4.00. Mrs. J. F. Coe, Martinsburg, Ky. 2-4

PURE WHITE HOLLANDS for sale. Satisfaction guaranteed. Bert Funkhouser, Ridgeville Corners, O. 2-3

TEN DARK BOURBON Red turkey eggs, \$3. Mrs. Lewis Stolte, Hannibal, Mo. 2-4

AMERICA'S LEADING WINNERS in Giant Bronze Turkeys and Partridge Plymouth Rocks. See our adv. on page 514. 2-16

PIGEONS.

WANTED—5,000 COMMON or Homer Pigeons. Pay at least 25c pair. Market Poultry wanted. D. Gilbert, 1128 Palmer St., Philadelphia, Pa. 1

"PIGEONS"—the finest pigeon magazine, \$1.00 a year, or send 25 cents for four months' trial. Pigeons Magazine, 953 Advertising Bldg., Chicago. 5-14-16

WANTED — HOMERS and Carneaux pigeons. Will buy any amount up to 5,000 pairs. Mated pairs preferred, but will buy unmated birds over 6 months of age. Price must be low. Give full description of what you have and price in first letter. Dawson Squab Co., Kennedy Station, Iowa. 2-4

\$\$\$ IN PIGEONS! Start raising squabs for market or breeding purposes. Make big profits with our Jumbo Pigeons. We teach you. Large, free, illustrated, instructive circulars. Providence Squab Co., Providence, R. I. 11-15-yr

I OFFER GUARANTEED mated Homers in any quantity at \$1.00 pair and challenge squab companies or dealers to produce better stock at twice this price. Beautiful White Homers, \$1.50 pair. Get my prices on Rums, Carneaux, Maltese Hens and save dollars. Charles A. Gilbert, 346 North American Street, Philadelphia, Pa. 9

PHEASANTS.

1,000 PHEASANTS WANTED—Complete book on breeding, colored plates, 75c. J. E. Cowles, Smiths Grove, Ky. 3-5

PHEASANTS AT REASONABLE prices. Will also buy and exchange pheasants. S. Whann, Polk, Pa. 3

PHEASANTS AFFORD great pleasure and profit. 20 cents for booklet, "The Pheasant Industry." Stamp for prices. Oak Grove Pheasantry, North Manchester, Ind. 3-5

PHEASANT EGGS FOR HATCHING—Ringnecks, 15 for \$3; Golden, 15 for \$4; Silvers, 15 for \$5. Cheaper in quantities. Send for list. Wm. F. Grimm, Antigo, Wis. 3-5

GOLDEN PHEASANTS—Full plumaged, fine specimens. \$10 pair. Martin Murphy, Lombard, Ill. 3-4

FOR SALE—A SUPERB lot of Golden, Silver and Amherst pheasants just right for breeding this Spring and Summer. I am now also booking orders for eggs of the following varieties, Mongolian, Ringneck, Chinese, Golden, Silver, Amherst and Reeves. Wood duck, Mallard and Gray Call duck eggs. All the eggs I ship are guaranteed to be from non-related, pure bred, strong, healthy birds, correctly mated; all eggs are guaranteed not to be over three days old when they leave my farm. I also manufacture a full line of special foods for the successful raising of young pheasants and wild water fowl, also for feeding the old birds all the year round. Write for prices. Wallace Evans Game Farm, St. Charles, Ill. Largest and most successful breeders of pheasants, wild water fowl, deer, etc., in the world. 7-15-1f

"PHEASANT FARMING," an illustrated, practical booklet on pheasant rearing, post-paid 50 cents. Circular, all necessary pheasant equipment, free. Simpson's Pheasant Farm, Corvallis, Ore. 1-3

GOLDEN PHEASANTS. Large, healthy birds. Stamp for prices. Satisfaction guaranteed. Geo. Kraning, Peru, Ind. 1-3

ORNAMENTAL.

SILKIES, FRIZZLES, White, Black Cochin Bantams, Gray Call Ducks. Lucy Bailey, Albion, Ill. 1-3

BELGIAN HARES.

FOR SALE — RED Belgians, Flemish giants. Unrelated stock in both Belgians and Flemish. Satisfaction guaranteed. Belgian Yards, Poughkeepsie, N. Y. 2-3

PEDIGREED BELGIAN HARES. Hare book. Catalog. Dogs. Poultry. Five stamps. Failing Poultry Farm, La Fargeville, N. Y. 1-3

RUFUS RED BELGIANS, two months old at two dollars per pair. Hare book; five stamps. B. H. Moss, Rabbitry, Route 4, Jackson, Tenn. 1-3

BELGIAN HARES and White Polish rabbits, 75c each. Woodford Poultry Farm, Route 10, Cincinnati, O. 3-5

FLEMISH GIANTS, RUFUS Red, Belgian Lopears, German Greys, Checkered Giants. Satisfaction guaranteed. Park View Rabbitry, Poughkeepsie, N. Y. 3-5

FERRETS.

FERRETS FOR SALE. White or brown, large or small, either sex; also bred females. Inclose stamp. J. E. Younger, Depot 2, Leavittsburg, Ohio. 2-4

GUINEAS.

GUINEAS—WHITE AND PEARL guineas at \$2 per pair. S. D. Snyder, Myerstown, Pa. 3

50 PEARL GUINEAS, \$2 per pair. John Hass, Bettendorf, Ia. 3-4

GUINEA PIGS.

DANDY GOOD GUINEA pigs, \$2.50 a pair. I. R. Hays, 2140 Maplewood Ave., Toledo, O. 3-5

DOGS.

REGISTERED COLLIE PUPS—Woodland Laddie at stud. Woodland Collie Kennels, New Lenox, Ill. 3-5

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No other exhibitor has ever won THREE FIRST PRIZES at a Madison Square Garden Show where we competed. The highest cash prize ever actually paid for a B. P. Rock so far as has come to our knowledge was given for a male we bred and raised. Three times have Males of our breeding won four of the five prizes offered in the class, including FIRSTS.

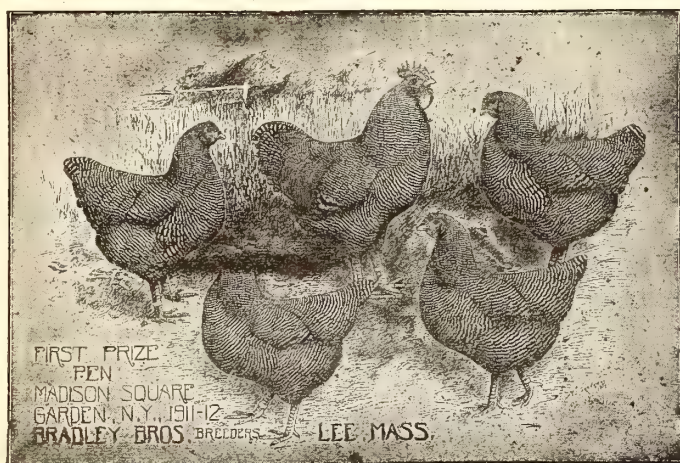
At our last Madison Square exhibit, 1911-12, we won 6 prizes on males; 3 prizes on females; both 1st and 2d yards; \$25.00 Cash Special for best display (won by nearly double the points of the closest competitor), also Silver Cup for best pen.

29 of our "Lee Belle" Females have been First Winners at Madison Square Garden Shows alone, and 60 Winning Males at Madison Square Garden Shows have been bred by us.

Many birds have been sent by us to customers in England, Russia, Japan, South Africa and other Foreign Countries. They arrive safely and give good satisfaction.

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FIRST PRIZE
PEN
MADISON SQUARE
GARDEN, N.Y., 1911-12
BRADLEY BROS. BREEDERS LEE, MASS.

"At the Canton Show, when the State Barred Rock Club met, we won with your strain, 1st, 3rd and 5th Cockerel; color special on Cockerel; 5th Cock; 2nd Hen; 2nd Pullet and color special on Pullet; also 2nd Cockerel bred Pullet. We won the state club cup for the best four exhibition birds, viz.: Cock, Cockerel, Hen and Pullet, and also special ribbon for the State Champion Cockerel. The above winnings were made in a class of nearly 300 Barred Rocks. The 1st Cockerel, 5th Cock and 2nd Hen were from eggs purchased from you."

FRED ANTHONY & SON

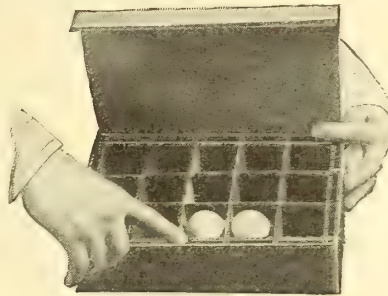
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North Lawrence, Ohio.

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**Positive
Protection**



See that Air Chamber?

**"Ask the
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Andrews' Efficiency Egg Carriers

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Koop
Without
a Nail

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Single Koop, \$3.00 half doz.
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Shipped only in half dozen lots.

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50 "	2.25 " "
100 "	4.20 " "

Shipped only in lots of two dozen, each size.

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"WHITENED ON BLUE GRASS RANGE"

Make new New York record by winning all five first prizes and 1-2-3-4-5 pens, with 14 pens competing; besides winning 1-2 cock, 1-4-5 hen, 1-2 cockerel, 1st pullet. Our birds also won several specials. They also won at Louisville and the Kentucky State Fair 6 first, 4 second, 4 third, 2 fourth and 4 fifth prizes this season.

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White Wyandottes
Silkies, Barred Rocks
1916 Cleveland Winners

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Pekins, Runners, Muscovies
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1916 Mating List
FRANKLIN · PENNA.

E. B. Thompson's Imperial Ringlet Barred Plymouth Rocks



Win at the Imperial Show
of all the world

Madison Sq. Garden
New York, February, 1915

The Most Wonderful Record in the History of Barred Plymouth Rocks

WINNING AS FOLLOWS:

EVERY 1ST PRIZE OFFERED

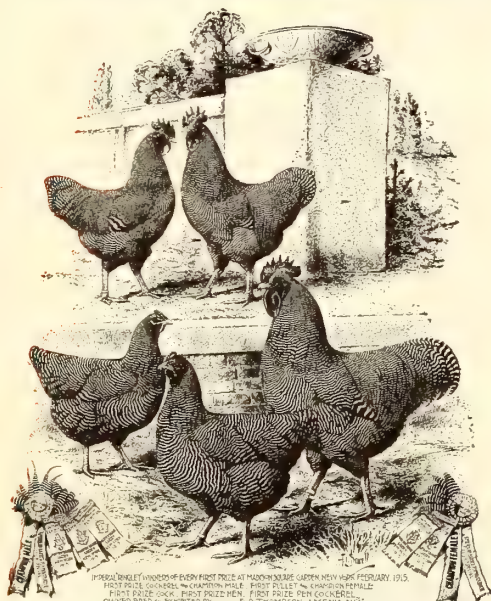
All Ribbons on Cockerels, Namely:
1st, 2nd, 3rd, 4th and 5th Prizes.

Cocks, 1st, 2nd, 3rd and 5th.

Hens, 1st, 3rd, 4th and 5th.

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Exhibition Pens, 1st, 2nd, 3rd and 4th.



Winners of every first prize offered at Madison Square Garden, New York, February, 1915—first cock, first cockerel, first pullet, first hen and first pen cockerel.

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My Customers Are My First Thought and Nothing Is Too Good for Them.

Elegant 70-Page Catalog Upon Request.

EGGS from the finest exhibition matings in the World
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AMERICAN POULTRY JOURNAL

"WE LEAD - OTHERS FOLLOW"



Five Hens Fed on Red Comb

Show Year's Record of 1072 Eggs



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"Gentlemen:—My five White Plymouth Rock hens in the International Egg laying Competition was the heaviest laying pen of White Plymouth Rocks ever recorded in a laying competition. Their total yearly record was 1072 eggs and they were ahead of all varieties of Plymouth Rocks. One hen laid 247, another 244 another 228 and one 192. For the coldest four weeks of the winter they won the special prize for greatest number of eggs laid. These hens and their parents were raised and conditioned on Red Comb Feed."—C. E. Reed.

W. H. Hardin, of Salisbury, N. C., says: "Red Comb Feeds are giving excellent results." During the month of December Mr. Hardin made a pen of S. C. White Leghorn pullets produce 28 eggs apiece.

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Red Comb

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CHICAGO, ILL.

Also Manufacturers of the
Famous Line of Red Horn
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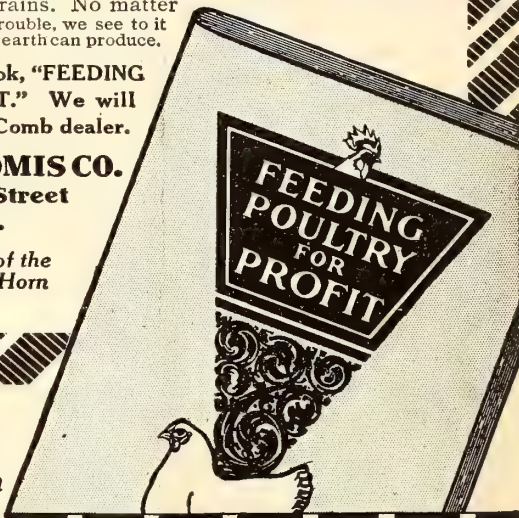
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Send me FREE copy of book "Feeding Poultry for Profit." Also name of Red Comb dealer near me.

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GRAND SILVER CUP.

Won at Madison Square Garden for best display of Anconas, both Single and Rose Combs competing. My birds were awarded Club Specials for best Pen, Cock, Cockerel, Hen and Pullet.

Cups and Special prizes have become almost as matter-of-fact to me (so frequently do Sheppard's Famous Anconas win!) as Ford Jokes. Perhaps because they are so familiar to myself, is why I haven't mentioned and shown them more. Winning has really become a habit with my birds—just as laying has! You start breeding Sheppard's Famous Anconas and you will soon be as genuinely impressed with their fine qualities as are hundreds of my patrons.

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Cup Winners Egg Producers Both!

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"Laid three times as many as others"—"Wonderful laying qualities"—"Lay in dull season"—"Laying at remarkable clip"—"They just shell out the eggs"—"Most eggs in coldest weather"—"Laying at four months"—"Laying at 20° below zero." On pages 54, 55 and 56 of the catalog you may read the complete letters from which we have above briefly quoted. Send for the catalog, if you want prize winners, egg producers, eggs for hatching, baby chicks—and read the evidence in full. See my other ads on pages 660 and 661.

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Why don't you gather more eggs?



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Send me free your book telling about ANCONAS.

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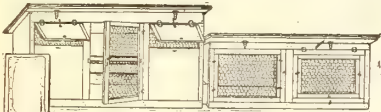
Columbian Plymouth Rocks

Eggs, Day-Old Chicks and Stock from our winners at Madison Square Garden and Palace and sons of "Columbia Queen," champion heavy-weight hen, record 286 eggs. Mating list free. Mention A. P. J.
T. J. ENSLIN HACKETTSTOWN, N. J.

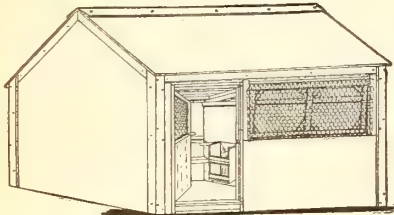


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Why are ye wedded to your idols? If you are not making a success of this poultry game, try pheasant rearing. The new industry requires no knowledge of how to properly mate. Remember the fool never changes, but the wise man does. Get in on the ground floor, it takes the ground floor for a fellow to win in any game. Send 30 cents in stamps for our colortype catalog; it gives you full details, if you don't like it return in 48 hours and your money refunded. We also offer S. C. Buff and Blue Orpingtons, R. I. Reds, Houdans, Wild Turkeys, White African Guineas, Japanese Longtails and Silkies, White Runner and Fancy Ducks for sale.
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Write for free booklet showing 20 different cuts.
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WE WILL
USE ONLY

258

282

AND

288

SIRES IN
OUR 1916
MATINGS

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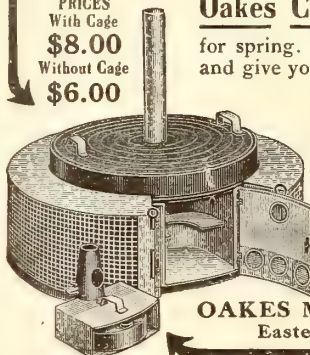
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With Cage
\$8.00
Without Cage
\$6.00



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Our Anconas first prize winners at the world's leading shows. Large illustrated catalogue describing both combs.

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BEDFORD, OHIO

"WE LEAD, OTHERS FOLLOW"

TABLE OF CONTENTS

	PAGE		PAGE
O. L. King—Pioneer Poultryman.....	607	Monthly Prize Contest Department.....	668
April a Busy Month for the Poultryman..	Maurice H. Decker 608	Story of a Beginner's Success—Mrs. Chas. Cross.	
Barred Plymouth Rocks and Their Breeding..	C. H. Latham 611	Best Results With the Sitting Hen—Otto E. Hackman.	
Sex Control in Poultry Breeding.....	Herb E. Sharp 612	Recent Inventions for Poultrymen.....	Lester L. Sargent 671
Nationalism or Fraternalism! Which?.....	W. Miller Higgs 615	Woman's Success With Poultry.....	674
How to Breed R. C. White Leghorns and Why—		Home and the Table.....	Helen T. Woods 677
First Prize Article.....	Walter T. Mattinson 616	Columbian Plymouth Rocks.....	Louis P. Graham 680
Second Prize Article.....	Lawton B. Quimby 617	Columbian Plymouth Rocks.....	T. J. Enslin 682
The Hatching Season of the Fancier....	Chas. A. Simmonds 618	Lakenvelders.....	Chas. M. Smith 689
Editorial	622	Practical Pointers in Raising Fancy Fowls	
Your Success—Adulterated Oats—Will History Repeat		.....	Judge W. W. Henderson 690
Itself?—Good Business—Young and Adult Stock—White		The A. P. A. and Horace Greeley's Pig.....	695
Orpington Breeders Attention!—Short-Sightedness—		Questions and Answers.....	Prince T. Woods, M. D. 696
Rose Comb White Leghorn Contest—Handwriting on		New Representative in the East.....	703
the Wall—Rat Hunting.		Arthur A. Peters.....	703
Dr. Woods' Notes and Comment.....	631	The Sussex an All Around Family Fowl	
Reply to Reliable Poultry Journal's "Unregenerate Editor"		.....	Dr. J. H. Prudhomme 704
.....	Prince T. Woods, M. D. 642	American Poultry Association Election.....	705
The Poultry "Hucksters" and Hatcheries.....	646	Why I Breed Buckeyes.....	706
Horticulture for Poultry Keepers.....	Thos. F. Rigg 650	Associations and Shows.....	709
Readers' Experience Department.....	657	Eastern Notes	715
If We Are Denied the Score Card Exhibition.....	I. K. Felch 664	Corrections	715
Rose Comb Barred Rock Standard.....	S. B. Wenger 666	Winings of American Poultry Journal Advertisers.....	716

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Abbott, O. M., Whiteland, Ind.....606	Clausen, F. S., Oconomowoc, Wis.....665	Grant, John, Richmond, Ill.....698
Aldrich Poultry Farm, Columbus, Ohio.....595	Cleveland Hatchery, Cleveland, Ohio.....667	Greene, Ralph C., Sayville, L. I., N. Y.....643
Allen Co., S. L., Philadelphia, Pa.....650	Coburn's Red Sussex Farms, Mich.....593	Greider, B. H., Rheems, Pa.....690
Almendinger, A. F., Buffalo, N. Y.....606	Cole, Frank C., Van Wert, Ohio.....640	Grove Hill Poul. Yards, Waltham, Mass.....713
Alum. Marker Works, Beaver Falls, Pa.....703	Collins, W. H., New York, N. Y.....706	
American Poul. Advocate, Syracuse, N. Y.....633	Conger, Dave, Anderson, Ind.....643	
American Poultry Journal, Chicago, Ill.....639-655-664-665-688-703-598-601-602	Conkey Co., G. E., Cleveland, Ohio.....669	
Am. School of Poul. Husbandry, Missouri.....651	Conrad, E. K., Hackensack, N. J.....638	
Anchorage Farm, Silver Lake, Mass.....649	Consolidated Products Co., Chicago, Ill.....715	
Andrews, J. W., Dighton, Mass.....705	Cook, L., Oakville, Iowa.....629	
Andrews Co., O. B., Tenn. Inside Back Cover	Cook & Sons, Wm., Scotch Plains, N. J.....712	
Andrews, O. B., Tenn. Inside Back Cover	Cooke, Geo., Racine, Wis.....712	
Andrews, S. H., Mineola, N. Y.....698	Corn Products Refining Co., New York, N. J.....706	
Applegate Poul. Farm, Delavan, Wis.....638	Cornell Co., Great Barrington, Mass.....706	
Arcady Farm Milling Co., Rondout, Ill.....603	Co-Op. Breed & Hatch. Co., Tiro, Ohio.....697	
Arnold, Aug. D., Dillsburg, Pa.....711	Crane, Chas. M., Elkhorn, Wis.....654	
Astle, Milan C., Monmouth, Ill.....638	Cross, Frank, Montague, Mass.....698	
Atherton, W. E., Randolph, Mass.....703	Crotser, E. A., Fulton, Mich.....635	
Atlas Company, Lincoln, N. J.....698	Cudahy Packing Co., Chicago, Ill.....677	
Atsatt Bros., Mattapoisett, Mass.....711	Curtiss Co., W. R., Ransomville, N. Y.....598	
Automatic Trap Nest Co., Kenosha, Wis.....693	Curtis, E. G., Atsion, N. J.....701	
	Cycle Hatchery Co., Elmira, N. Y.....706	
	Cyphers Incubator Co., Buffalo, N. Y.....604-605	
Balch & Brown, Manchester, Conn.....699		
Bales, J. S., Springfield, Ill.....645	Darling & Co., Chicago, Ill.....693	
Banks, M. H., Dillsburg, Pa.....715	Davis, M. C., Woodstock, Ill.....700	
Barker, M. S., Thornton, Ind.....632	Dawdy & Dawdy, Greenville, Ill.....713	
Barstow, Geo. N., Oneonta, N. Y.....689	Deege, Grover, Quincy, Ill.....698	
Bayden, John, Ridgeway, Ont., Can.....683	Deer, F. L., Franklin, Ind.....685	
Bayardorffer, M., Huguenot Pk., N. Y.....681	Demberger, L. J., Stewartsville, Ind.....645	
Beach, Geo. Watson, New York, N. Y.....643	Deming, H. P., Winsted, Conn.....697	
Bean, I. W., So. Braintree, Mass.....645	Des Moines Inc. Co., Des Moines, Iowa.....639	
Bear Brook Poul. Farm, Wakefield, Mass.....716	Doerhoefer, Lewes P., Ky. Inside Bk. Cover	
Bella Vista Farms Co., Kimmiswick, Mo.....683	Double Service Tire & Rub. Co., Akron, O.....693	
Belle City Inc. Co., Racine, Wis.....658-592-702	Deyoe's, Dodgeville, Wis.....715	
Berberich, Rev. W., Groton, N. Y.....598	Du Pont de Nemours & Co., Del.....651	
Berry's Poultry Farm, Clarinda, Iowa.....691	Duston, Arthur G., S. Framingham, Mass.....698	
Besov, C. W., Jefferson, Maine.....716		
Besov, Geo., Cedar Vale, Kans.....662	Eakin, F. M., Bucyrus, Ohio.....698	
Bigelow, P. C., Medina, Ohio.....643	Easling, N. P., Pekin, Ill.....598	
Bird Bros., Meyersdale, Pa.....595	Edwards & Loomis Co., Chicago, Ill.....590	
Bird & Son, East Walpole, Mass.....635	Egg Preservative Co., New York, N. Y.....700	
Blatchford's Calf Meat Fcty., Illinois.....678	Elec. Specialty Co., Salt Lake City, Utah.....702	
Bloese, Aug., Chicago, Ill.....635	Elliott Poul. & Fruit Farm, Ohio.....675	
Blum, Barbara, New Washington, Ohio.....643	Enslin, T. J., Hackettstown, N. J.....592	
Blum, Frank, New Washington, Ohio.....632	Everfresh Egg Farm, Ionia, Mich.....716	
Bock, Oscar L., Council Bluffs, Iowa.....689	Everlay Farm, Methuen, Mass.....658	
Bourne Mfg. Co., Melrose, Mass.....698	Ever Ready Trap Nest Co., Missouri.....693	
Bower-Knoll Farm, Olney, Ill.....734	Ewing & Romich, Creston, Ohio.....698	
Brackett, L. C., Hopkins, Mich.....710		
Bradley Bros., Lee, Mass.....734	Faha, Jr., Frank, Dyersville, Iowa.....636	
Bradley Port. House Co., Randolph, Mass.....710	Felch, I. K., Natick, Mass.....592	
Branford Farms, Groton, Conn.....682	Fernbrook Farm, Albany, N. Y.....679	
Briggs, Edgar, Pleasant Valley, N. Y.....684	Ferris, P. J., Cuyahoga Falls, Ohio.....703	
Brogden, Thos., Rush Lake, Wis.....699	Fishel & Son, J. C., Hope, Ind.....636	
Brown Fence & Wire Co., Cleveland, O.....651	Fishel & Hasselman, Hope, Ind.....697	
Brown, John L., Anderson, Ind.....715	Fogg, N. V., Mt. Sterling, Ky.....702	
Bruerton, M. M., Wakefield, Mass.....685	Fourche Mountain Poul. Farm, Ark.....682	
Buckeye Incubator Co., Springfield, O.....670	Fox River Poultry Farm, Millbrook, Ill.....706	
Buckeye Poultry Yards, Eaton, Ohio.....688	Foxhurst Farm, Lime Rock, Conn.....680	
Buell, Mrs. L. R., Lake Geneva, Wis.....675	Frantz, O. C., Rocky Ford, Colo.....734	
Buena Vista Farm, Northboro, Mass.....696	Frase, W. F., East Akron, Ohio.....689	
Burdin, S. K., Toronto, Ont., Can.....691	French Co., R. T., Rochester, N. Y.....688	
Burrell-Miller, Indianapolis, Ind.....693	Friesner & Son, J. W., Bremen, Ohio.....673	
	Funk Egg Farm, Bloomington, Ill.....645	
Cadwallader, T., Salem, Ohio.....703		
Cagwin, R. W., Williamstown, N. Y.....710	Gamewell, J. A., Little Silver, N. J.....684	
Cairngorm Farm, Nottingham, Ohio.....705	Garbutt, Cora B., Darien, Wis.....685	
Candee Inc. & Brooder Co., N. Y.....701-690	Gassmann, Henry, Olney, Ill.....675	
Carbo Corporation, Chicago, Ill.....656	Genesee Cooping Co., Rochester, N. Y.....643	
Carbola Chemical Co., New York, N. Y.....636	Gensch, F. M., Omro, Wis.....638	
Carbolineum Wood Pres. Co., Wisconsin.....673	Geneser Bros., Creston, Ohio.....628	
Carpenter, W. W., E. Providence, R. I.....703	Gerber, G. J., Dalton, Ohio.....635	
Carr Bros., Vineland, N. J.....713	Gilbert Poultry Farm, Haverhill, Mass.....702	
Carr, R. E., De Kalb, Ill.....645	Globe Elevator Co., Buffalo, N. Y.....658	
Carter's Poul. Farm, Jonesdale, Wis.....685	Glory-Anna Poultry Yards, Louisville, Ky.....643	
Carver, A. A., Seville, Ohio.....625	Goat World, Baldwin Park, Cal.....643	
Cassel & Son, F. P., Lansdale, Pa.....663	Goddard & Sons, W. H., Muncie, Ind.....679	
Chase, G. H., Highland, N. Y.....662	Gordon, Jessie F., Spring Valley, Minn.....685	
Chiles & Co., Mt. Sterling, Ky.....592	Goshen Poultry Farms, Goshen, Ind.....685	
Cinnakol Chem. Sales Co., Bayonne, N. J.....690		
Clark, G. A., Seymour, Ind.....704		
	Halbach, H. W., Waterford, Wis.....627	
	Hall Mammoth Inc. Co., Lit. Falls, N. Y.....691	
	Hammock Carrier Corp., Syracuse, N. Y.....685	
	Handside, J. R., Litchfield, Ohio.....703	
	Hansen, Dr. M. A., Osage, Iowa.....716	
	Harbin, Edmond J., Riverside, Ill.....673	
	Hartnly, Mrs. J. H., Zion City, Ill.....713	
	Hartzman, H. S., Moline, Ill.....649	
	Hauk, Jos., Waukegan, Ill.....699	
	Hawkins, A. C., Lancaster, Mass.....666	
	Hayward, W. F., Westboro, Mass.....714	
	Heasley, Dr. L. E., Holland, Mich.....711	
	Henderson, W. W., Bridgeton, Mo.....597	
	Hen's Secret Inc. & Brooder Co., Mich.....734	
	Hering, Frank E., South Bend, Ind.....599	
	Hess & Clark, Ashland, Ohio.....668-679	
	Hewes, Sec'y, Theo., Indianapolis, Ind.....633	
	H. I. Company, Salem, Va.....640	
	Hiles, J. C., Cleveland, Ohio.....680	
	Hinde & Dauch Paper Co., Sandusky, O.....652	
	H. O. Company, Buffalo, N. Y.....647	
	Hodgson Co., E. F., Boston, Mass.....638	
	Holterman, W. D., Fort Wayne, Ind.....632	
	Homaji Farm, Eveleth, Minn.....705	
	Homestead Campine Farm, Mass.....712	
	Hooker, Henrietta E., S. Hadley, Mass.....679	
	Houston & Hofius, S. Charleston, O.....654	
	Howland, Chas., Sandwich, Ill.....654	
	Hubbard, C. H., Lime Rock, Conn.....713	
	Hummel, S. A., Freeport, Ill.....683	
	International Glue Co., Boston, Mass.....635	
	Ironclad Incubator Co., Racine, Wis.....669	
	Ives, Ives & Ives, Guilford, Conn.....715	
	Jacobus, M. R., Ridgefield, N. J.....698	
	Jensen, Carl J., Waukegan, Ill.....638	
	Johnson, Frank, Chicago, Ill.....683	
	Johnson Co., M. M., Clay Center, Neb.....644	
	Kaup, F. A., Glen Ellyn, Ill.....711	
	Keefe, C. A., Muskegon, Mich.....683	
	Keeler, Chas. V., Winamac, Ind.....628	
	Keipper Cooping Co., Milwaukee, Wis.....693	
	Keller, Ira C., Prospect, Ohio.....638	
	Kemper, Roy, Clarence, Mo.....632	
	Kennedy, J. Fred N., Birch Cliff, Can.....670	
	Keyes-Davis Co., Battle Creek, Mich.....685	
	King, Dr. A. C., Chicago, Ill.....693	
	Kitselman Bros., Muncie, Ind.....650	
	Klein, J. W., Kiel, Wis.....712	
	Klein-Lambert Co., Chicago, Ill.....657	
	Kulp, W. W., Pottstown, Pa.....690	
	Kurtz, A., Kansas City, Mo.....698	
	Lakewood Farms, Holland, Mich.....664	
	Lange, J. G., Detroit, Mich.....682	
	Latham, C. H., Lancaster, Mass.....630	
	Lauver, C. M., McAlisterville, Pa.....714	
	Laywell Poultry Farm, Lyndonville, Vt.....715	
	Lee Co., Geo. H., Omaha, Neb.....641	
	Leitner, C. H., Elgin, Ill.....629	
	Lily White Poul. Farm, Saginaw, Mich.....632	
	Lingeman, C., St. Louis, Mo.....693	
	Lock, C. W., De Kalb, Ill.....645	
	Lo-Glo Elec. Incubator Co., New York.....672	
	Longfield Poul. Farm, Ind. Inside Bk. Cover	
	MacKay Colony Brooder Co., N. Y.....639	
	McCammon & Myers, Gettysburg, Pa.....715	
	McClave, Chas., New London, Ohio.....682	
	McConnell, J. V., Garden Grove, Cal.....640	
	McConnell, W. A., Richmond, Ill.....700	
	McCrum, W. O., Decatur, Ill.....670	
	McDannell, M. O., Moline, Ill.....626	
	McGrann, Frank, Lancaster, Pa.....594	



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Magic Egg Tester Works, Buffalo, N. Y.....	678	Perry, Louis H., Clay, N. Y.....	706	Sharp, Herb E., Spokane, Wash.....	703
Mahon, Elton C., Norwood, Tenn.....	683	Phile, Henry, Freeport, Ill.....	706	Sheer Co., H. M., Quincy, Ill. Inside Bk. Cov.	703
Majestic Squab Co., Adel, Iowa.....	678	Pilling & Son Co., Philadelphia, Pa.....	678	Shenfield Farm, Glendale, Ohio.....	638
Mann Co., F. W., Milford, Mass.....	688	Pine Lake Poultry Farm, Hartland, Wis.....	684	Sheppard, H. Cecil, Berea, O.....	660-661-591
Marble Cliff Quarries Co., Columbus, O.....	693	Pittsfield Poul. Farms Co., Holliston, Mass.....	675	Sherman, C. A., Freeport, Ill.....	702
Marshall & Marshall, Niagara Falls, Can.....	714	Platt, F. L., Swanton, Ohio.....	624	Shoemaker, C. C., Freeport, Ill.....	687-686
Martin, John S., Port Dover, Ont., Can.....	626	Plainfield Hatchery, Plainfield, Ill.....	713	Simmonds, Chas. A., Camp Point, Ill.....	638
Martin, M. F., Chicago, Ill.....	714	Plymouth Rock Squab Co., Melrose, Mass.....	680	Simplex Brooder Stove Co., Michigan.....	691
Mortling Hennerly, Ridgefield, N. J.....	596	Pomona Nurseries, Danville, N. Y.....	650	Simplex Sup. House, Chicago.....	690-686-692-704
Martz & Son, A. E., Arcadia, Ind.....	624	Pony King, St. Paul, Minn.....	671	Singleton, Geo. H., Lakewood, Ohio.....	710
Mazelin, Joseph, Berne, Ind.....	643	Poolman, John G., Tinley Park, Ill.....	606	Sixt, H. C., & C. W., West Park, Ohio.....	716
Mead Cycle Co., Chicago, Ill.....	644	Pope & Pope, Louisville, Ky.....	647	Smith, Eugene C., Aurora, Ill.....	625
Meadow Lark Farm, Elgin, Ill.....	700	Porter, A. B., La Salle, Ill.....	635	Smith, F. S., Hamilton, Ohio.....	712
Meadow Lawn Poultry Yds., Mich.....	675	Potter & Co., Downers Grove, Ill.....	654	Smyth Mds. Co., John M., Chicago, Ill.....	663
Merrell, Arthur, Solon Mills, Ill.....	654	Pottinger, Joseph, Peru, Ill.....	645	Somers, J. O., Bedford, Ohio.....	592
Metzger Mfg. Co., Quincy, Ill.....	688	Powers, J. H., Chicago, Ill.....	649	Spahr, Albert G., Xenia, Ohio.....	656
Minch, Philip J., Cleveland, Ohio.....	635	Prairie State Inc. Co., Homer City, Pa.....	670	Spencer, John G., Sharpsburg, Pa.....	706
Mirimichi Poultry Farms, Foxboro, Mass.....	696	Pratt Food Co., Philadelphia, Pa.....	663	Spiller, A. P., Beverly, Mass.....	693
Mo. Poultry & Squab Co., Kirkwood, Mo.....	656	Progressive Incubator Co., Racine, Wis.....	658	Sprague, P. H., Maywood, Ill.....	703
Mittendorff, O. F., Lincoln, N. J.....	673	Prudhomme, Dr. J. H., Thurmont, Md.....	684	Spring Water Poul. Farm, Stockton, N. J.....	682
Model Incubator Co., Buffalo, N. Y.....	642	Putnam, L., Elmira, N. Y.....	678	Standard Poultry Co., Nappanee, Ind.....	667
Moeller, Carl W., Quincy, Ill.....	673			Starck Piano Co., P. A., Chicago, Ill.....	592
Monmouth Farms, Freneau, N. J.....	716	Quaker Oats Co., Chicago, Ill.....	653	Starks, M. L., Starks, Wis.....	688
Moore, R. H., Nellie, Ohio.....	698	Queen Incubator Co., Lincoln, Neb.....	678	Steinmesch, Hy., St. Louis, Mo.....	714
Mooreland Poultry Farms, Mentor, Ohio.....	716	Quincy Poultry Farms, Quincy, Ill.....	649	Sterling Poultry Co., Sterling, Ill.....	709
Morisrite Mfg. Co., Bloomfield, N. J.....	710			Sterling Poultry Farm, Sterling, Ill.....	700
Morris Farm, Bridgeport, Conn.....	710	Ralston Purina Co., St. Louis, Mo.....	678	Stierling, John, Decatur, Ill.....	673
Morris Poultry Farm, Lebanon, Ohio.....	705	Rancho Del Martino, Downey, Cal.....	673	Stiles, Chas. L., Columbus, O.....	678-680-715
Morse, Rufus, Belding, Mich.....	716	Rancocas Poul. Farms, Browns Mills, N. J.....	710	Stover Mfg. Co., Freeport, Ill.....	668
Mount Air Farm, Powell, Ohio.....	716	Rau, Fred, Indianapolis, Ind.....	675	Stratton Mfg. Co., Erie, Pa.....	688
Mountville Farm, Mountville, Va.....	701	Rawnsley-Shields Poul. Farms, Ohio.....	681	Struble, Z. D., Bascom, Ohio.....	592
Muskwadosa Stock Farm, Pembine, Wis.....	685	Read, W. E., Maywood, Ill.....	689	Sturman, Grant, Ill.....	Inside Back Cover
Myers, C. Guy, Siddonsburg, Pa.....	684	Read Poultry Farm, Watervliet, N. Y.....	592	Succulenta Co., Newark, N. J.....	656
Myers, C. N., Hanover, Pa.....	625	Red Feather Farm, Tiverton 4 Cor., R. I.....	584	Sunlight Poultry Farm, Lynchburg, O.....	596
Myers, Frank, Freeport, Ill.....	697	Reed, Mrs. Hattie D., Marcellus, N. Y.....	682	Sunnyside Poultry Farm, Bristol, Vt.....	701
		Reliable Inc. & Brooder Co., Quincy, Ill.....	682	Sunset Poultry Yards, Olneyville, R. I.....	643
National Poultry Band Co., Newport, Ky.....	703	Reliable Poultry Journal, Quincy, Ill.....	702	Sunswick Poul. Farm, S. Plainfield, N. J.....	624
National Poultry Institute, Topeka, Kas.....	668	Reliance Incubator Co., Freeport, Ill.....	665	Swift & Co., Chicago, Ill.....	683
Natural Hen Inc. Co., Los Angeles, Cal.....	690	Rikhoff, H. F., Indianapolis, Ind.....	654	Sycamore Farm, Grafton, Mass.....	701
Nelson, Walter P., Bayonne, N. J.....	706	Riley, Henry D., Strafford, Pa.....	715		
Neusitz Co., W. A., St. Louis, Mo.....	647	Riley, H. J., Bryan, Ohio.....	635	Tarbox, A. & E., Yorkville, Ill.....	669
Newell & Gordinier, Troy, N. Y.....	685	Rippley Mfg. Co., Grafton, Ill.....	664	Taylor, Geo., Urbana, Ill.....	700
Newtown Giant Inc. Corp., Virginia.....	662	Roberts, Wm., Granville, Mich.....	689	Taylor Instrument Co., Rochester, N. Y.....	641
Niemann Bros. Mfg. Co., Mt. Olive, Ill.....	629	Rochester Spray Pump Co., N. Y.....	700	Tenacre Poultry Farm, Princeton, N. J.....	705
Nixon, Chas., Washington, N. J.....	705	Rockford Poul. Supply Co., Rockford, Ill.....	645	Thompson, E. B., N. Y.....	659-Back Cover
Norwich Auto Feeder Co., Connecticut.....	699	Rock Ledge Farm, Southborough, Mass.....	683	Thornwood Poul. Yards, Crandall, Ind.....	711
Novak Poultry Farm, Racine, Wis.....	665	Rockwood Farm, Norwalk, Ohio.....	634	Thornycroft Buff. Leghorn Farm, Pa.....	710
Nye, C. C., Haristown, Ill.....	711	Rogers, F. D., Elgin, Ill.....	732	Tiffin Poultry Farms & Hatchery, Ohio.....	645
		Rosevelt, C. L., Chicago Heights, Ill.....	711	Timberlake & Sons, J. B., Jackson, Mich.....	684
Oakes Mfg. Co., Tipton, Ind.....	592	Rosedale Egg Farm, Port Huron, Mich.....	709	Tompkins, Harold, Concord, Mass.....	704
Ohio Marble Co., Piqua, Ohio.....	665	Rosemount Farms, Penn.....	Inside Bk. Cover	Tremann King & Co., Ithaca, N. Y.....	688
O. K. Company, New York, N. Y.....	706	Rudy, Geo. H., Mattoon, Ill.....	596	Temper, S. N., Sandwich, Ill.....	651
Old Forge Poul. Farm, Spring Grove, Pa.....	667	Ruf, Fred A., Crown Point, Ind.....	683	Trethaway, Arthur, Wilkes-Barre, Pa.....	658
Olle, P. J., Racine, Wis.....	640			Tyler, S. A., De Kalb, Ill.....	649
Orchard Farm, Noroton Heights, Conn.....	702	Sanborn, Dr. N. W., Holden, Mass.....	689	Typewriter Emporium, Chicago, Ill.....	641
Ossege Hatchery, J. W., Glandorf, Ohio.....	700	Sanford, Geo. P., Wheaton, Ill.....	632		
Owen Farms, Vineyard Haven, Mass.....	694-695	Sanitary Coop Co., Indianapolis, Ind.....	703	Uhl & Co., M., New Washington, Ohio.....	656
		Sargent, Lester L., Washington, D. C.....	672	Union Stock Yds. Poul. Farm, Chicago.....	710
Page, Fred, Rockford, Ill.....	703	Saunders & Williams, Ingersoll, Can.....	679	United Brooder Co., Trenton, N. J.....	673-703
Palmer & Son, D. F., Yorkville, Ill.....	679	Savage, P. L., St. Charles, Ill.....	693	Universal Heat Check, Buffalo, N. Y.....	685-698
Pape, Chas. G., Fort Wayne, Ind.....	619	Schabell, John, Chicago, Ill.....	658	Urban Farms, Buffalo, N. Y.....	699
Parke, Davis & Co., Detroit, Mich.....	612	Schenley Heights Poul. Farm, Pittsburgh.....	716		
Parks, J. W., Altoona, Pa.....	698	Scherubel, H., Elgin, Ill.....	632		
Park, J. W., Altoona, Pa.....	634	Schultz, W. F., Cuyahoga Falls, Ohio.....	696		
Pasteur Lab. of Am., New York, N. Y.....	711	Schwabe-Smith Co., Elmhurst, Ill.....	699-593		
Payne Bros., Portland, Conn.....	697	Scranbon, B. H., Rising Sun, Ind.....	704		
Pennington, J. S., Plainfield, Ill.....	703	Sears, Howard O., Garden Prairie, Ill.....	643		
Penn. Poultry Farm, Lancaster, Pa.....	693	Sefton Mfg. Co., Chicago, Ill.....	606		

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 Watts, Mrs. Tella E. W. Concord, Minn....693
 Waugh, M. H., Peoria, Ill.....662
 Wellcome, F. O., Yarmouth, Maine.....715
 Wendell Incubator Co., Holly, Mich.....664
 Wetmore, C. S., Lackawanna, N. Y.....606
 Wheeler, Albert V., Carlinville, Ill.....644
 White, D. J., Wilkinsburg, Pa.....700
 White City Egg Farm, Seville, Ohio.....645
 White Wyandotte Poul. Yards, Mass.....689
 Whitmore Mfg. Co., Galva, Ill.....715
 Whitney, Wm. B., Marlborough, N. Y.....690

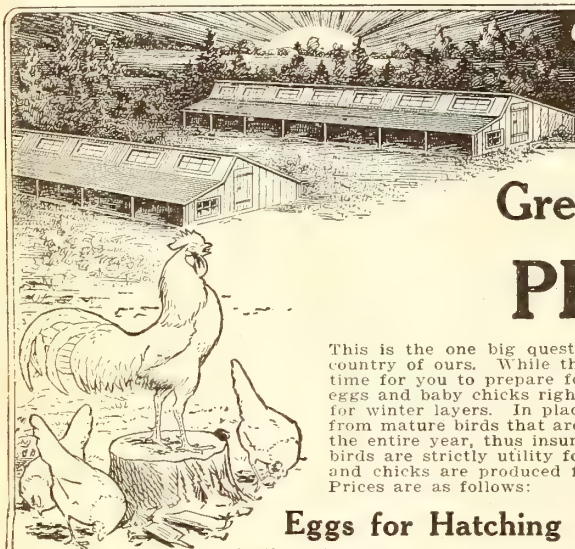
Wiebke, W. H., Fort Wayne, Ind.....732
 Wilburtha Poul. Farms, Trenton Jc., N. J. 637
 Williams, A. C., Ravenna, Ohio.....630
 Williams, E. H., Berea, Ohio.....703
 Willow Tree Poultry Farm, Mass.....681
 Wilson Bros., Easton, Pa.....706
 Wisconsin Incubator Co., Racine, Wis.....646
 Witte, Ed. H., Kansas City, Mo.....652
 Wolf, Mrs. John, Merrifield, N. Dak.....665
 Wolf-Huber Hatchery Co., Gibsonburg, O. 682
 Wood, Chas. H., Worcester, Mass.....689
 Woods, H. M., Carlinville, Ill.....645
 Woodward, Ralph, Grafton, Mass.....703

Woolery Farm, Bloomington, Ind.....698
 Wotherspoon, Jas. R., Philadelphia, Pa. 712
 Wyckoff & Son, C. H., Aurora, N. Y.....709
 Wyngarden Hatchery, Zeeland, Mich.....711

X-Ray Incubator Co., Des Moines, Iowa..672

Yesterlaid Egg Farms Co., Pacific, Mo...645
 Young, D. W., Monroe, N. Y.....631
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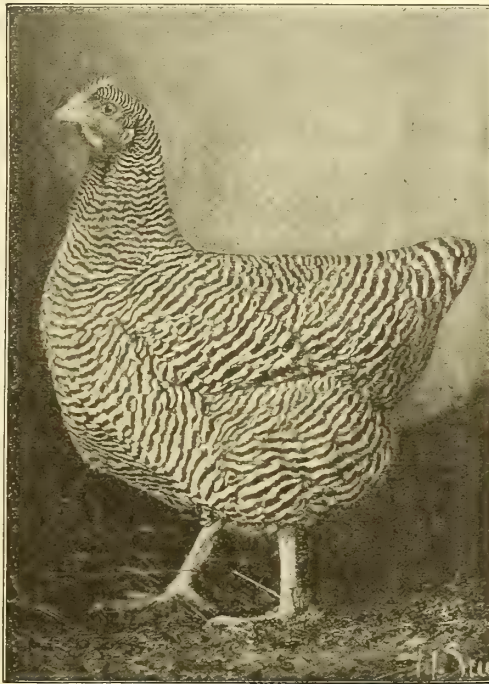
have won at leading shows of America for the last 20 years. The Henderson Strain again proved its right to the title, "America's Foremost" thru the remarkable winnings of the present season.

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At the Tri-Sate Show held at Memphis, Tennessee, the last week in October, 1915, in competition with 553 Barred Plymouth Rocks from the yards of our best breeders, the Henderson strain won as follows:

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Note—I won every first prize offered on males and breeding pen at this show.



First Prize and Grand Champion Hen
(All Varieties Competing) St. Louis, 1915

At St. Louis, November, 1915

First and Third Prize Exhibition Cock, First Prize Exhibition Cockerel, First Prize Exhibition Hen, First and Third Prize Pullet Bred Cock, First, Second and Third Prize Pullet Bred Cockerel, Third and Fourth Prize Exhibition Pullet, First and Second Prize Cockerel Bred Hen, First and Third Prize Exhibition Pen, First Prize Cockerel Bred Pen, First Prize Pullet Bred Pen; Special Sweepstakes Prize for the Best Display in the Show, all varieties competing; Special Sweepstakes Prize for the Best Pen in the Show, all varieties competing; Special Sweepstakes Prize for the Best Hen in the Show, all varieties competing; Special for the Best Display in the American Class, Grand Champion Male, Grand Champion Female, Special for the Best Colored Male, Special for the Best Shaped Male, Special for the Best Colored Female, Special for the Best Shaped Female.

At Milwaukee, January, 1916

8 Firsts, 5 Seconds, 2 Thirds, Best Display.

Eggs for Hatching from 40 grand pens that contain the greatest Barred Rock Breeders in America. Write today for free catalog describing these wonderful pens. Magnificent breeding and exhibition birds of this grand prize-winning blood for sale.

SATISFACTION GUARANTEED.

W. W. HENDERSON, Bridgeton, Mo.

Day-Old Chicks, Ducks and Hatching Eggs

Any Quantity. Prompt Shipment. 10,000 Breeders. 100,000-Egg Capacity. 31 Years of Success. Largest Duck and Chicken Plant in the World. Best strains of

Rocks, Reds, Wyandottes and
Leghorns; also Pekin and Indian
Runner Ducks and W. Guineas.

Prices Low and Stock Right. Circulars Free. Cut Clover and Poultry Supplies.

NIAGARA FARM W. R. Curtiss Company RANSOMVILLE, N. Y.

COBURN'S Red and Speckled Sussex

Winners at two club shows in 10 months

New York 1915 Chicago

Best Matings in Country. Write for New Mating List

Electric Shop:
"MAXWELL"



H. H. & E. M. COBURN
ST. CLAIR, MICH.

Single Comb White Leghorns

PARKSIDE STRAIN

The winners at the Great Chicago Show, Jan., 1916, the largest show ever held in Chicago. Easling not only repeats his former success by winning *several firsts* again, but won the most coveted prize in the entire show, *Grand Champion Pen*. All varieties competing.

We offer eggs from pens headed by 1st
Prize Chicago winners at \$5.00 per 15.

We offer Day-Old Chicks from
same pens at \$10.00 per dozen.

SPECIAL SALE ON STOCK APRIL 15th. We offer for delivery any time after this date a large assortment of choice *Laying, Breeding and Exhibition Stock* at just half regular prices. Get in touch with us at once for full particulars so that your birds can be shipped in time to use yet this season for breeding purposes. Write me your wants today. *My catalog is free.*

Eggs from all pens half price after May 15th.

THE PARKSIDE POULTRY FARM, N. P. Easling, Prop.

Box 40, PEKIN, ILLINOIS

Speckled Sussex

WINNERS at Madison Square Garden, N. Y.—Buffalo—New York State Fair
Having bred Speckled Sussex eleven years, I am in a position to supply breeding
yards, properly mated, and eggs from first-class stock, at reasonable prices.

REV. W. BERBERICH

The Maples

GROTON, NEW YORK

TWO SWEEPSTAKE CHAMPIONSHIPS

Coliseum, Chicago, December, 1915



1st Cock, Coliseum, 1915

S. C. White LEGHORNS

I won the lion's share of honors in the great contest between quality S. C. White Leghorn breeders of the East, West, North and South. Because of the strength of the class competing at the Coliseum, no fair-minded man will question the right of my stock to be considered the equal of any strain in the country in exhibition qualities. So far as egg-laying qualities are concerned, they have for years been unsurpassed.

Just Consider That in S. C. White Leghorns at the last Coliseum Show

I won first and third in cocks; I won first young pen.
I won first and fourth in cockerels; I won second and third old pens.
I won the Coliseum silver cup for best 5 cockerels.
I won the Coliseum silver cup for best display.

SILVER CAMPINES

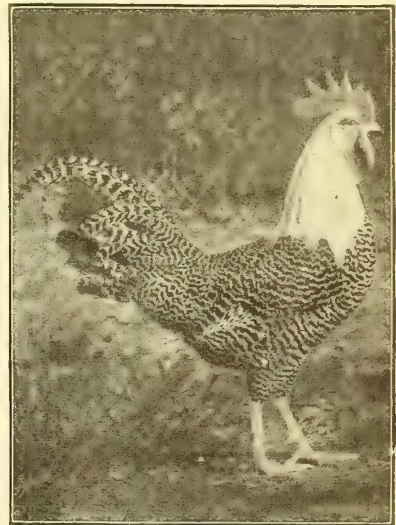
At the last Coliseum Show, Chicago, the very cream of the best fowls of the country were exhibited.

THE CAMPINE CLUB OF AMERICA

held its annual meet at the Coliseum, and the leading breeders of the East, the head-liners in Campinedom, were present with their exhibit. The classes were the very strongest, every one agrees, that have ever been exhibited, and

THE GREATEST HONORS WERE MINE

I won two of the five awards in cockerels.
I won three of the five awards in hens.
I won three of the five awards in pullets.
I won three of the five awards in old pens.
I won three of the five awards in young pens.
I won the challenge cup of the Silver Campine Club of America.
I won the Coliseum cup for best display.
I had 48 Campines entered; 38 were placed.



1st Cockerel, Coliseum 1914

HATCHING EGGS HATCHING EGGS HATCHING EGGS

I now have 25 pens of S. C. White Leghorns mated and I also have 25 pens of Silver Campines. March 20. I have 2,000 baby chicks. I have tested eggs from every pen and guarantee a high degree of fertility.

BABY CHICKS—Write for my very reasonable terms on baby chicks hatched from my All-Star matings. Hatching Egg Announcement and Stock Circular free. Write today.

FRANK E. HERING

Desk B

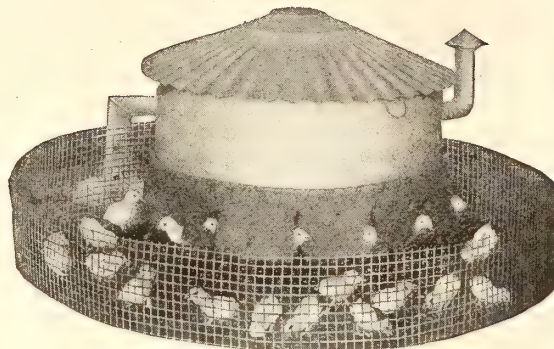
SOUTH BEND, INDIANA

This Is the Way to Raise Baby Chicks

Under Natural
Feathers in a



Cheap in
Price

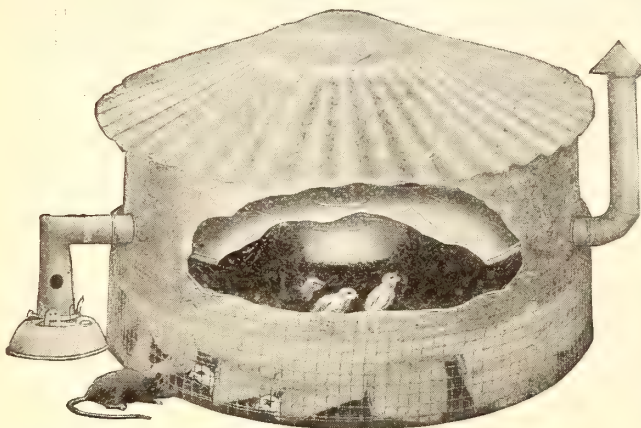


The above is a picture of a Simplex Perfection Heated Feather Brooder with netting extended as runway.

With or Without
Fire in a



Bound to
Please



Simplex Perfection Heated Feather Brooder

This shows the netting down tight to act as a rat guard; also the way the chicks hover in the natural feathers of a Simplex Perfection Heated Feather Brooder. This also shows the heating apparatus and the way the feathers protect the chicks. This picture was made to show the inside of the brooder; the brooders we sell have a solid body of galvanized iron and are guaranteed in every respect.

Net prices of the Simplex Perfection Heated Feather Brooders.

50-Chick **\$5⁰⁰** 100-Chick **\$6⁰⁰** 150-Chick **\$7⁰⁰**

CATALOG FREE

Send for our complete catalog giving full information on these brooders as well as other supplies. We sell direct to the consumer.

Find out about our profit-sharing plan.

**No Excuses,
No Delay, that's
the Simplex Way.**

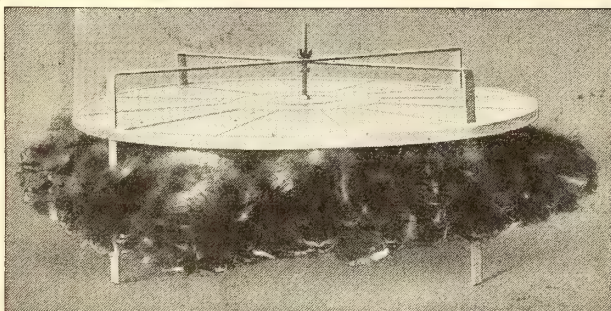
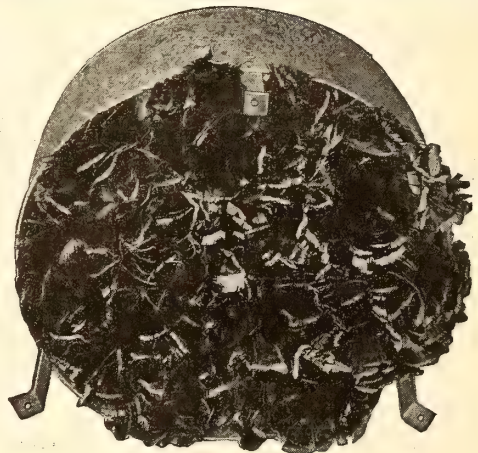
And this is a bottom view of a Simplex Perfection Fireless Feather Brooder. It is made the same as the heated brooder, but in place of the heating apparatus it has an extra tuft of feathers in the center. It is used in a room where a temperature of about 60 to 70 degrees can be maintained. We recommend the fireless brooder and guarantee that it will raise more and stronger chicks than any other.

The net prices of the Simplex Perfection Fireless Feather Brooders including rat guard and runway, also curtain as on heated brooders.

50-Chick **\$4⁰⁰**

100-Chick **\$5⁰⁰**

150-Chick **\$6⁰⁰**



This is our natural feather hover for heated brooder houses and for use in home made brooders. These hovers are being successfully used in brooder houses of the foremost breeders. The disc to which the feathers are attached is raised off the floor by means of a skeleton frame—in all other respects they are made the same as the hovers in our complete brooders.

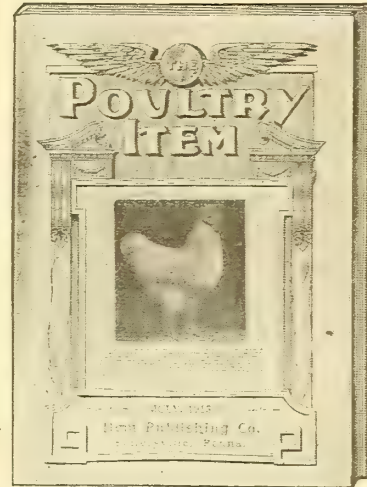
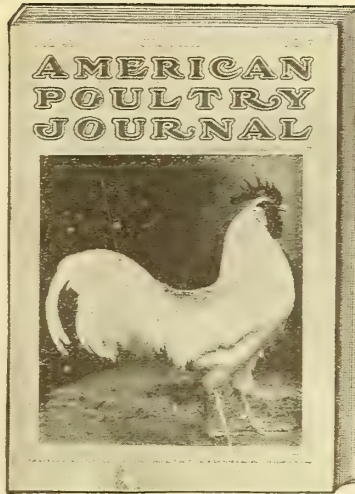
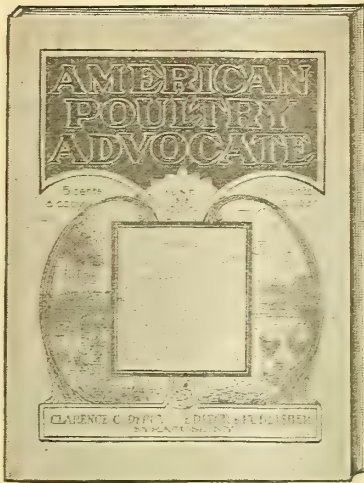
50-Chick **\$2⁵⁰** 100-Chick **\$3⁵⁰** 150-Chick **\$4⁵⁰**

**You cannot afford to be without them.
Sold under a 30-day guarantee. Absolute satisfaction or money back.**

SIMPLEX SUPPLY HOUSE

Pontiax Building

CHICAGO, ILLINOIS



A WEALTH OF POULTRY KNOWLEDGE

\$1 All Three for the **\$1**
Regular Price of One

This offer will appeal to every red blooded poultryman. The monthly publications embraced in this offer are leaders in their chosen field and well known throughout the country. All three are pioneers—they have been tested and have passed the final examination—the “survival of the fittest.”



American Poultry Journal, Chicago, Ill.

Established 1874

Has the envious reputation of being “The One Great Poultry Paper of America.” It's the oldest poultry paper in America and the largest and best poultry paper in the world. Its circulation covers the entire United States, Canada, Mexico, and several hundred copies are sent to foreign countries where the best is considered just good enough. It contains from 68 to 252 pages each issue, and is mailed to subscribers promptly on the first of each month.

American Poultry Advocate, Syracuse, N. Y.

Established 1892

Is one of the most widely known and consistently advertised publications in the field. It is composed of interesting and instructive reading and is conceded to be one of the best, clean-cut poultry papers in the east. Published monthly.

Poultry Item, Sellersville, Pa.

Another “breeder's choice;” is well edited, progressive and instructive, finding popular favor among those poultrymen who enjoy good editorials, not “muckraking.” The helpful hints given in the many articles are advantageous to both amateur and professional. Published monthly.

These three papers, the choice of breeders, will be sent to you postpaid every month for one year, at half price.

American Poultry Journal, 1 yr., \$1.00	} All 3 for \$1.00
American Poultry Advocate, 1 yr., .50	
Poultry Item, 1 yr., .50	

The three papers being sold together for the price of American Poultry Journal alone makes this one of the best offers which can possibly be made.

Both new and renewal subscribers may take advantage of this offer. New subscriptions will commence with current issue. Renewal subscriptions will be extended one year from expiration of present subscription. This offer void after May 31st, 1916.

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AMERICAN POULTRY JOURNAL PUBLISHING CO.
542 S. Dearborn St., Chicago, Ill.

American Poultry Journal Publishing Co.,
542 So. Dearborn Street, Chicago, Illinois.

Gentlemen:—Enclosed find \$1.00 for which send me one year's subscription to American Poultry Journal, American Poultry Advocate, and Poultry Item.

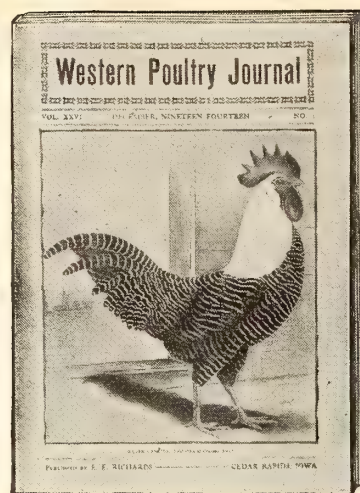
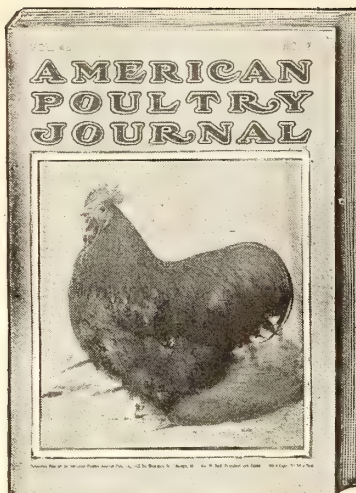
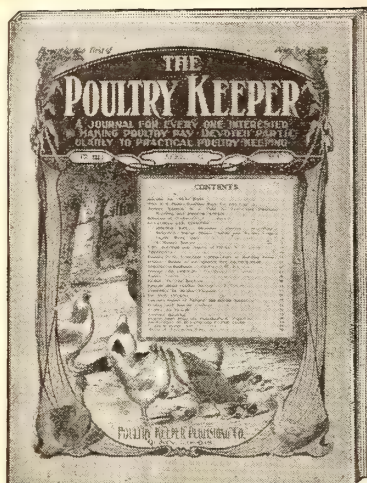
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A WEALTH OF POULTRY KNOWLEDGE

Save One Dollar

Here is your opportunity to get the three oldest poultry papers in America at half price. All three are published monthly—filled with good, sound, helpful advice, which may save you many times the cost of your subscription.

**Three for
the price
of One—**

That's what
you get when
you subscribe
to this com-
bination at
this time.

American Poultry Journal, Chicago, Ill.

Established 1874

"The One Great Poultry Paper of America" is conceded by all to be the leading poultry paper of the world. It contains from 68 to 252 pages in each issue, profusely illustrated; contains no free reading notices or puffs for advertisers, but sound common sense articles, the kind that are profitable to both amateur and professional poultrymen. Mailed to subscribers promptly on the first of each month, it arrives when expected and avoids disappointment.

Western Poultry Journal, Cedar Rapids, Ia.

Established 1889

Has long been recognized as one of the most up-to-date and progressive poultry papers of the West. Edited by E. E. Richards, the present President of the American Poultry Association. Clean, instructive common sense articles on the care of poultry—and editorials of like nature make this one of the favorite poultry papers in the Western States.

Poultry Keeper, Quincy, Ill.

Established 1883

Is the second oldest poultry paper of America. Although not as large as the other two, it has a following of readers who stand by it like the "Rock of Gibraltar." The many interesting articles each month make it well worth reading and it fits nicely into this well selected combination of poultry papers.

American Poultry Journal, 1 year, \$1.00 } **ALL**
Western Poultry Journal, 1 year, .50 } **FOR**
Poultry Keeper, 1 year, .50 } **\$1.00**

No matter where you are located, how many chickens you keep or how much you know about poultry, you cannot afford to let an opportunity like this slip by. Think of it—**ALL THREE** for the regular price of American Poultry Journal alone.

Both new and renewal subscribers may take advantage of this offer. New subscriptions will commence with current issue. Renewal subscriptions will be extended one year from expiration of present subscription. **This offer void after May 31st, 1916.**

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American Poultry Journal Publishing Co.,
542 So. Dearborn Street, Chicago, Illinois.

Gentlemen:—Enclosed find \$1.00 for which send me one year's subscription to American Poultry Journal, Western Poultry Journal, and Poultry Keeper.

Name.....

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Renewal.....State.....

Canadian subscribers add 75 cents and foreign subscribers \$1.50 extra for postage.

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1

**"Made
On The
Farm"**

**"I Owe Everything
I Am To
RKD
Poultry
Feeds!"**

**RKD
Baby Chick
Feed**

**RKD
Chick
Feed**

"Just about the time I began stumbling around on my 2-day-old legs, my master began making me scratch for my daily rations of

RKD BABY CHICK FEED

"My, but it tasted good—and was good for me. I just grew and grew, feathered out in a hurry and never had a day's sickness. " 'Twasn't long before they put me on

RKD CHICK FEED

and I began to get sleek and round and fat, until I was the plumpest looking pullet you ever saw, the pride of my mother hen and the joy of my master. When the time approached for me to begin earning my own living and paying my master back in eggs for my board, he began feeding

RKD POULTRY FEED

"Now, I am the best layer in all the yard. You can hear my proud cackle oftener than that of any other hen on our farm. I laid 225 eggs last year. That's the high record around our neighborhood!"

R K D Poultry Feeds were originated on the famous Arcady Farms, owned by Arthur Meeker, General Manager and Vice-President Armour & Co., Chicago. They are scientific combinations of the finest quality of grains—mixtures that have proven themselves wonderful result-getters—made in a scrupulously clean manner—by brand new, modern machinery. Put up in 100-lb. bags. For sale by most dealers. If your dealer cannot supply you write us direct.

ARCADY FARMS MILLING CO., Box 65, Rondout, Ill.
Makers of R K D Dairy Feeds, R K D Calf Meal and R K D Horse Feed

**Read
The
Proof
That
RKD
Feeds
Are
Best**

"I am well pleased with the results obtained by feeding R K D."

P. O. Condit,
Pataskala, O.

"We are having good sales of feed and our supply is nearly exhausted. Get our carload started forward at once."

M. W. Harroway,
Richmondville, N. Y.

"Our customers like RKD and it goes like hot cakes."

Monarch Milling Co.,
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"Mrs. F. G. Langworthy says that RKD feed is the stuff to make hens lay." —Clipping from Kirkham Valley, Wis., local items.

"I have fed your feed and many other kinds and I have found yours best and gets the best results."

R. R. Armstrong,
Walton, N. Y.

"You are at liberty to use our names as enthusiastic users of RKD. We are using it constantly with excellent results."

Romp & Sons,
North Ridgeville, O.

"Kindly rush the last two cars of RKD. We are entirely out and our customers are calling loudly for it. We cannot afford to be without R K D."

West Park Lumber
& Grain Co.,
West Park, O.

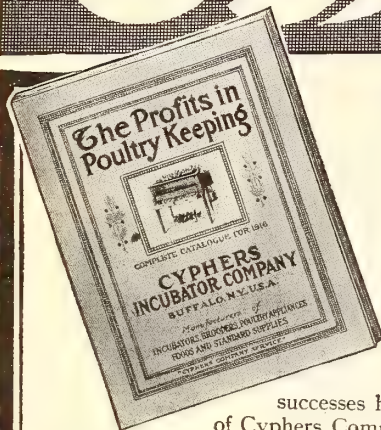
"We are more than satisfied that RKD has been the best feed we have ever had."

R. G. Morey, Prop.
Pleasant Valley Farm,
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"RKD is giving good satisfaction."

Proctor & Proctor,
Fox Lake, Ill.

The Cyphers Co's Equipment



Our Big Free Book Tells You How Don't Fail To Get It

FOR the past 20 years Cyphers-built Incubators have been used almost exclusively by all the **big, successful poultry plants** and the **leading fanciers** in the United States and Canada. Can you, Reader, do better than follow the example of the men and women who have succeeded—who have **made money with their poultry**? Many of these poultrymen **first tried** other makes, but soon discarded them, and now frankly acknowledge they could not have succeeded without the "Cyphers." **"The Profits in Poultry Keeping,"** our 172 page (size, 7½ x 10 inches) Catalogue and Poultryman's Guide, tells how these big

successes have been accomplished. The introductory "Open Letter" by Grant M. Curtis, President of Cyphers Company, should be read by every poultryman—it tells in a helpful way **how to avoid costly mistakes**. Send a postal TODAY to our nearest office and you will receive the book by return mail—FREE.

3 Styles-8 Sizes \$12 to \$40

WHEREVER chicks are hatched—whether in large or small numbers—Cyphers-built Incubators are the acknowledged leaders—they **hatch better, last longer**, require **less attention** and produce **larger, stronger and healthier** chicks.

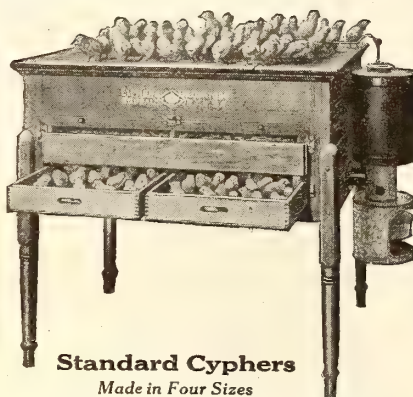
Whether you prefer a hot-air or a hot-water incubator, there is a Cyphers-built machine in a size to suit your needs.

Don't make the **very costly** mistake of **experimenting** with wrongly-constructed, so-called "cheap" hatchers, that will not—that **cannot**—give you the big hatches of strong chicks you have a right to expect.

Now is the time to **increase** your hatching capacity. April and May hatched chicks are easy to raise. The weather then is favorable and the chicks can be given the advantage of outdoor brooding. **Do not delay**, therefore, ordering needed equipment.



**Superior
Hot-Water**
Made in Two Sizes
65 Eggs, \$12.00. 130 Eggs, \$16.00



Standard Cyphers
Made in Four Sizes
70 Eggs, \$15.00. 144 Eggs, \$23.00
244 Eggs, 34.00. 390 Eggs, 40.00

The Superior

Hot-water heated hatcher. Has all the time-tried features of Cyphers standard of design, construction and finish. The water boiler and tubular tank heating system are of heavy-weight copper. Lamp has seamless bowl; burner is best on market; case is **wood**, attractively finished in golden brown, with brass trimmings; has **double walls**, well insulated; equipped with Standard Cyphers Complete Regulator. Has **forced water circulation**; is automatic in ventilation. (See illustration.) **Fully guaranteed to you.**

Immediate Shipment Guaranteed

At each of our SEVEN places of business (see opposite page) we have complete stocks of Incubators, Brooders and Hovers READY for immediate shipment on receipt of your order. Place your order now, therefore, and get the benefit of the full hatching season.

Standard Cyphers

The machine that for **twenty years** has been recognized as the **"standard hatcher of the world."** Tens of thousands of them are in successful use in every civilized country on the globe. They are the last word to date in incubator building. Are built to hatch successfully in **all climes, under widely different conditions**, in the hands of all sorts of people, and with reasonable care will last a lifetime. (See the illustration herewith.) **Satisfaction guaranteed to every purchaser.**

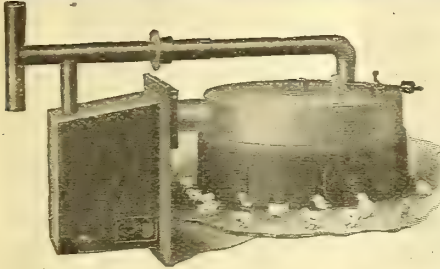
The Columbia

The best incubator on the market at the price. Hot-air heated. Has **wooden** case, attractively finished in dark green, with brass trimmings and **double, well-insulated walls**. Seamless-bottom lamp bowl, best quality brass burner. **Cyphers complete regulator**. Fume-proof, forced-draft heater. Automatic in ventilation and embodies **diffusive** principle. **Fully guaranteed.**



**Columbia
Hot-Air**
Made in Two Sizes
140 Eggs, \$16.00. 250 Eggs, \$22.00

Insures Your Success in Hatching and Brooding



Adaptable Hover. Price, \$9.00!

The "Cyphers Way" Saves the Chicks

THE brooding season is right before you now. Your chicks will need your **best attention** and the best "foster-mother" that can be provided. In fact, upon your choice of a proper Brooder, and the care you take of your chicks, depends very largely the **net profit** you will make this season.

The "Cyphers Way" of brooding chicks will **prevent losses**, and help you bring your poultry into market at the **best prices**. You cannot afford now to "experiment." Cyphers methods have been tested by 20 years' experience—our own and that of thousands' customers.

Paradise Brooder

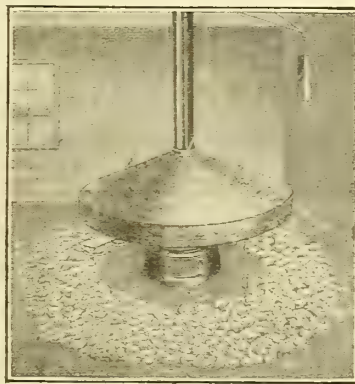
For indoor brooding. Base section (two compartments) can be bought and used separately. Later, one or more upper sections can be added. Heated by one Blue-flame Safety Oil Stove. No special houses or coops are needed, and chicks can be raised in any living room; chicks are **always in plain sight**, up off the floor, away from cold, dangerous drafts; chicks cannot chill, cannot overheat, cannot wander away and get lost or be destroyed by rats, cats, etc.; saves time, labor and fuel. **Fully guaranteed.**



Four-Section Paradise Brooder. Capacity, 400 Chicks.

Adaptable Hover

For outdoor and indoor brooding. A popular and efficient Brooder at a **low price**. Tens of thousands of these standard Hovers are in successful use in all parts of the world. Is **self-regulating, self-ventilating, fume and gas-proof**, all-metal, and fire-proof. Lamp positively cannot blow out. Easily attached to **home-made brooder case**, large goods box or small colony house. Used as heater in all Standard Cyphers Brooders. (See illustrations herewith.) **Fully guaranteed to you.**



Colony Hover. Price, \$15.00 Up.

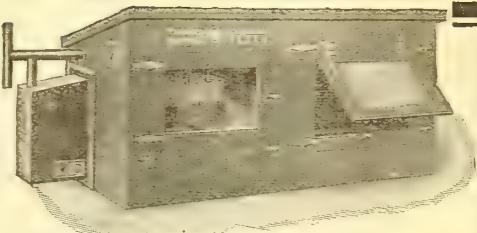
Colony Hover

Coal-burning. Broods chicks in flocks of 300 to 1,500, and at **lowest expense**. In health of chicks, in low cost of labor and fuel, in simplicity and ease of operation, it **has no equal** for brooding chicks in large numbers. Its ample fuel capacity and automatic regulator, will keep the chicks warm throughout the coldest night, maintaining a regular temperature of 90 to 95 degrees under hover and keeping room at desirable temperature. Made in **five sizes**. Write for Special Circular. **Fully guaranteed.**

Address our nearest office.

CYPHERS INCUBATOR CO.
Dept. 30, Factory and Home Office,
BUFFALO, N. Y.

Branch Stores and Warehouses:
NEW YORK, N. Y. 41 Barclay St.
BOSTON, MASS. 12-14 Canal St.
CHICAGO, ILL. 1421 W. 37th St.
KANSAS CITY, MO. 19th & Campbell.
OAKLAND, CAL. 2127 Broadway.
DALLAS, TEX. 316 N. Preston St.



Style B Three-Apartment Brooder.

Standard Brooders

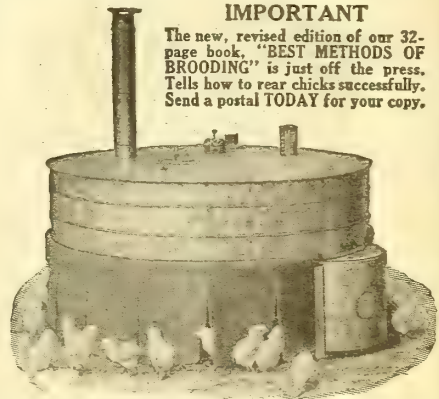
Have no equal as efficient brooding heater combined with latest-improved brooder case. Are equipped with Cyphers Adaptable Hover. Most popular Brooders on market. Keep chicks **safe and comfortable in any weather**. Convenient to use, easy to clean, readily movable. Shipped knock-down at lowest freight rates. **Style A**, for outdoor use; has two apartments. Price, \$14.50. **Style B**, for outdoor use; has three apartments. Price, \$18.50. (See illustration.) **Style C**, same as Style B, but has double-insulated walls in hover apartment; for cold climates. Price, \$20.00. **Style D**, for indoor use; has two apartments. Price, \$13.50. **Guaranteed.**

Portable Hover

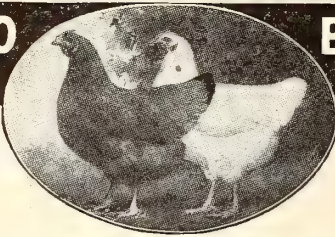
Provides a **low-cost**, convenient and practical way to brood little chicks indoors. Set it down anywhere indoors and you will have a safe and comfortable home for the little chicks. "Movable" at a moment's notice without even turning down the lamp flame. It is an all-metal, **self-regulating, self-ventilating, complete brooding device**, automatic and economical. Does not need a brooder case or box enclosure. Chicks are on the level of room floor all the time. (See illustration.) **Fully guaranteed.**

IMPORTANT

The new, revised edition of our 32-page book, "BEST METHODS OF BROODING" is just off the press. Tells how to rear chicks successfully. Send a postal TODAY for your copy.



Portable Hover. Price \$9.00.

TRAP-
NESTED
200 EGG
STRAIN**POORMAN'S 200
THE WORLD'S**Lady Hattie,
256 Eggs**EGGS STRAINS
BEST LAYERS**Lady Show You,
281 EggsLady Vera,
235 EggsLady May,
219 EggsLady Agnes,
236 EggsLady Beatrice,
249 EggsLady Grace,
232 EggsLady Rose,
232 Eggs**Stock, Eggs and Baby Chicks**

from profitable layers is your only guarantee for success in the poultry business.

ISN'T it a serious matter when eggs are selling at 40c to 60c per dozen and your hens are not laying? Ask the man who has failed. Also ask him if he would recommend the breeder he bought his stock from. You cannot be too careful in the selection of your foundation stock; the stock from which you will produce your future layers. I breed for eggs and can supply you with stock that will lay when the egg prices are high.

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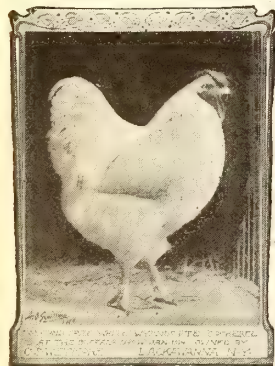
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AMERICAN POULTRY JOURNAL

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APRIL, 1916



O. L. KING—PIONEER POULTRYMAN

O. L. KING, proprietor of Glen Eyre Farm, Rockford, Ill., specializes in Standard quality Barred Plymouth Rocks and farm fruits and vegetables. He was born near Bushnell, Illinois, in 1860, grew to manhood in a farming district where poultry were not given the attention they are today by up-to-date farmers. He became interested in the farm flock of "barnyard chickens" at an early age and in 1880 started with thorobred poultry. Light Brahmas were his first standard variety and he bred them until 1890, when he added a flock of Black Langshans and bred both varieties until 1895. About this time he became interested

in Barred Plymouth Rocks and he bred all three varieties for the next five years. In 1900 a change of location made it necessary to drop both of the Asiatic varieties and they were sold. From that time he has specialized in Barred Plymouth Rocks and has shown and won in leading Illinois shows. He has not exhibited as extensively as many other breeders, but since 1902 has exhibited thirteen times, winning 48 out of a possible 65 first prizes, and a grand total of 151 out of a possible 325 regular prizes. Eight times his birds won color and shape specials and in 1907 took the State Barred Rock Club cup.

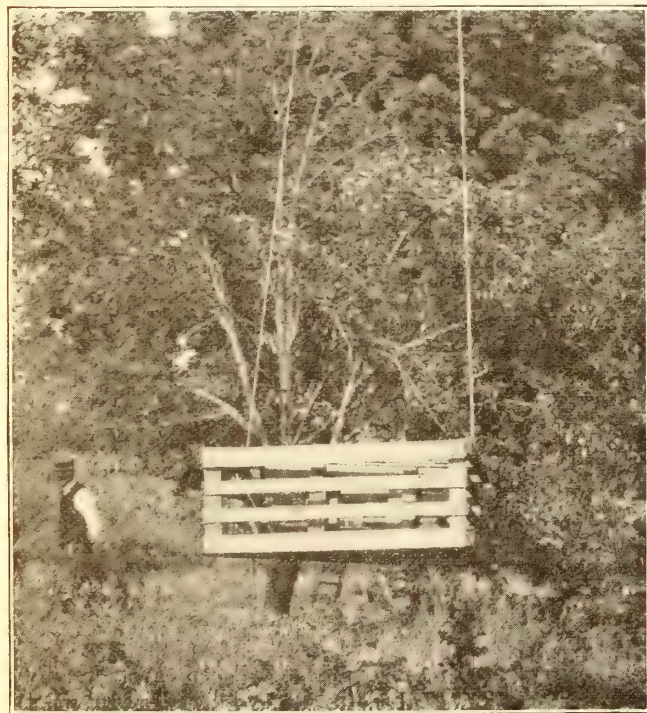
April a Busy Month for the Poultryman

He Has Chicken Thieves to Foil, Broody Hens to Break, Live Fowls to Ship, Brooders and Colony Houses to Clean and Green Food to Grow for Chicks. *By Maurice H. Decker*



THE COMING OF THE SPRING and Summer months bring to most of us the fear of losing a part or even all of our best fowls by theft. To my notion the worst misfortune that can befall any poultryman is to be awakened some fine morning and discover that some of his stock has been carried away in the night by that meanest of characters—the chicken thief. The comparative ease with which fowls may be purloined and disposed of at a good profit makes chicken stealing a very attractive means of liveli-

hood to certain classes of society, and until there are in universal effect stringent laws that deal with this offense in just proportion to its seriousness, the only protection the poultryman has is his individual efforts in keeping his property under lock and key at night and in being prepared to deal effectively with any intruder upon a moment's notice. The usual punishment meted out to chicken thieves is an indeterminate sentence of from two to fourteen years in the penitentiary, but by the exercise of good behavior many of these worthies gain their release after a stay of but 24 months, and in some cases have been caught at the same old business soon after they clear the prison gates. I am of the opinion that the sentence for this offense should be made so severe that individuals in need of a little easy money would think the matter over very carefully before attempting to rob their neighbor's hen roost. A good stiff sentence would certainly do a lot to break up the operations of those who go into chicken stealing as a business and devote the whole of their efforts and ingenuity to their operations. About a year ago our local authorities rounded up a couple of men who were using a light auto truck with covered body and built-in crates in their raids thru several adjoining counties. When we think of some big hulking, lazy, lout stealing, to buy his beer and tobacco, the flock of hens in which are wrapped all the Summer's hopes, efforts and income of some farm-



Slat crate hung from apple tree used to break up broody hens. See article "April a Busy Month for the Poultryman."

wife or daughter, it is safe to say a majority of us would surely welcome back that ancient institution of punishment—the whipping post for such offenses.

A large per cent of the risk from theft can be eliminated upon most farms by the proper arrangement and fencing of the poultry buildings and yards. Large buildings and the entrance gates of the yards should be located as near the owner's or manager's dwelling as is practical and convenient. A six-foot closely woven poultry fence with one or two strands of barb wire at the top, the whole strung upon slender steel posts is a difficult barrier to climb, and with the gates locked or well located, many attempts of intruders to enter the premises will be warded off by general appearances alone. Heavy fowls roosting upon fences or in the low branches of trees are particularly favored by and accessible to thieves, for if handled carefully they may be plucked down one by one with little noise and disturbance. If you have light and active breeds you cannot do better than encourage them to roost in the orchard or shade trees in warm weather, as they will usually fly high and can be depended upon to start a chorus of warning at the sight of the first intruder. Last year our apple trees sheltered over 400 hens and pullets, and any thief who could have caught and made away with any of them without awakening the whole neighborhood would have been welcome to all he could take. The presence of even a cat or rat would start the entire flock cackling at the tops of their voices.

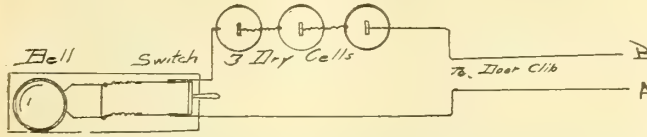
As we have never suffered any losses of baby chicks we scatter our brooders out well from the house at first and then when the birds are weaned from heat and begin to gain a worth-while weight, we place them in larger colony houses which are moved up rather close, where we can keep an eye on them at night. Then as the fowls are big enough to range about considerably we encourage them to hustle for their feed as far out in the fields as possible during the day.

All of our colony houses and laying houses are fitted with locks. Unless fastened with a blind hasp, one that covers the heads of the screws that hold it in place, the padlock is rather a poor protection, and no matter how arranged, is never infallible. I have never been able to fix up a padlock and hasp that could not be pried or "jimmied" open by an ambitious thief, altho to date we have never had any such fastenings broken open. The chicken thief is usually of the sort that travels the path of least resistance, and if one's premises possess evidence of security and thoughtful safeguarding, he will seldom resort to much force or trouble to effect an opening. A colored gentleman of rather obscure antecedents who was in the habit of working off and on thru our neighborhood a few years back, told once of running across a poultry house one evening with a padlocked door swung upon leather hinges, but I do not believe many up-to-date poultrymen would be guilty of such an inconsistency, or as easily pacified as was the elderly gentleman who, upon hearing a disturbance among his hens, called out in their direction: "Who's in there?" and was answered in dark complexioned accents: "Nobody but us chickens, Boss!"

Our buildings of medium and large size we prefer to close with a good stout door secured by a cylinder night lock. These locks are unpickable, offer no hold for a "jimmy," cost from \$1 to \$1.25, and can be easily hung by any amateur. In case of there being two or more doors in one building we put the night lock on the door nearest the house and secure the others with heavy gate hooks and staples. Ventilating openings should be backed by quarter inch galvanized wire cloth on the inside, a material having several advantages over ordinary poultry netting to offset its higher cost. First, it is nearly impervious to rain, snow and wind in a house of tight walls; second, the meshes are too close to allow it being cut by tin shears—unless an opening is first started with a chisel; a pocket knife has no effect upon it; and lastly

it is worth while if only for its better appearance and indestructibility.

A good watch dog, preferably an Airdale, should be upon every poultry plant and a good electric alarm along the lines of the one illustrated in the accompanying drawing will be excellent insurance for buildings located some distance away. The first drawing shows how we construct a simple, reliable alarm catch, which is nailed to the door jam in such a



This shows how to wire up the complete system. We use a lamp cord about six feet long next to the bell and switch so they may be moved up close to the bed at night, and hung on the wall out of the way during the day. (See "April a Busy Month for the Poultryman.")

manner that when the door is closed the brass spring is compressed and does not touch the copper wire. The instant the door is opened this strip of spring brass flies out and establishes connection with the wire and the bell rings until the door is closed or the switch is opened. This catch is made of a thin piece of soft wood for the base, a strip of thin brass one-half inch wide and two inches long, two binding posts from old dry batteries and a piece of copper wire. The second diagram shows how to connect up the line wires to the alarm catches, the batteries, alarm bell and switch. In arranging an electric alarm it must only be remembered that a complete circuit must be formed with a break, which, when joined, will give the current freedom to sound the bell. The switch forms an extra break to use in the day time when the doors would be opened more or less or left open. For line wire we used what is known as office wire No. 18. If you do not care to make the catches they can be purchased for about 15 cents each from electrical stores. They are termed electric door springs. We have had a system of this sort in use four years, the farthest house with an alarm being 700 feet distant and the equipment is still in serviceable order. We ran the wires from tree to tree about 25 feet high, where they are practically invisible. One of the best protections against local talent is to put in an alarm and then let it get around over the neighborhood. In order to be prepared when the bell sounds in the night we keep a repeating shotgun loaded with shells containing No. 8 shot, which will create a suitable impression without any danger of seriously wounding anyone. A chicken thief deserves a good shooting up, but personally I would not care to shoulder the responsibility of the act.

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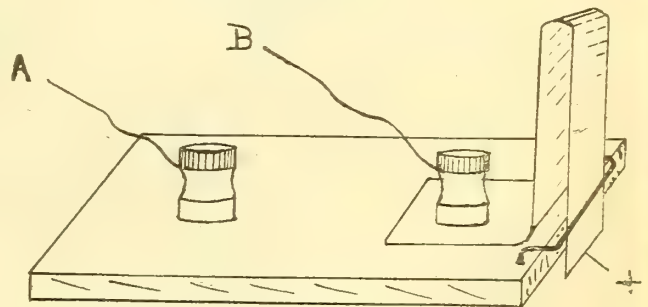
Hens that go broody late in the season are unusually persistent in their inclination to set and very difficult to break. Some of our Plymouth Rocks will spend ten days to a week in a slatted crate and come out clucking as vigorously as ever. Here is a time when the poultryman is tempted to lose his temper and deal harshly with such fowls, but this is always poor policy, both from the financial as well as humane side, and good results will be obtained with little trouble by using a swinging crate as shown in the accompanying photo. This crate hangs from a limb 20 feet above and when full of "clucks" sways back and forth, tipping sideways just enough to discourage them remaining long in a easy, comfortable position. We do not feed hens in this crate. Just tie a deep pail of water to one corner. We have found this to cure very obstinate cases of the "fever" in two to three days with very little trouble or provocation on our part.

* * * *

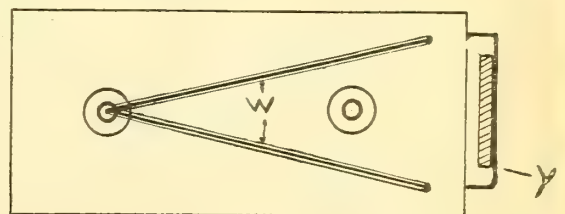
While the practice of shipping live fowls to be sold by commission merchants is not the ideal way to dispose of ones stock at the most profit, a great number of poultry raisers are forced to depend upon this outlet to market a portion of their chickens. A market for example such as South Water street of Chicago will take anything in the line of poultry that exists and one is sure of always getting cash for any number of fowls in any sort of condition. This does not mean, however, that it pays to ship in poor, thin, sickly

birds, for here, as well as at every other market quality gets first consideration. Reasonable number of fowls are shipped in crates 48 inches long, 30 wide, 10½ inches high for broilers not over two pounds, 12 high for heavy broilers and mature hens and ducks, and 15 to 18 high for geese and turkeys. Twenty-four hours before the fowls are to be shipped, discontinue all soft feeds and give them cracked grains only. This puts them in better shape to endure the journey without much shrinkage and being more or less tired of the soft feed they will devour the cracked corn fed upon this day and that put in the crates and arrive at the market with a full crop free from hungry worries. All fowls will shrink more or less, according to their age, weight and distance shipped. The last consignment we sent over were three-year-old hens and one crate made the good record of shrinking only one and one-half pounds. The birds weighed 101½ before sending, and we received a check for an even 100 pounds at an advance of one-half cent over the market's top, which goes to prove that we were well satisfied with the returns and that all commission men are not dishonest. The express companies carry market poultry at reduced rates and consignments are generally sent collect to the commission firm. When the goods are sold the express charges, the 5 per cent commission and cost of returning the crates (15c each) are deducted from the shipper's check. Broilers weighing one and one-half to two pounds seem to sell best upon all markets the season thru. Poultry should be shipped to arrive from Tuesday to Friday, as little selling is done on Saturday and enough stock is carried over from the past week to supply Monday's demand. The stock should be delivered to the express agent at such a time that it will leave promptly, travel at night, if possible, and arrive early the next morning at the market. Two tags should be tacked upon each end of each crate and each should bear the full name and address of both the shipper and commission merchant. Never put tags on top, as they are liable to be torn off. The tops of the crates should be constructed so the fowls are unable to put their heads thru, for if they do the baggage men are liable to place another crate or box on top with disastrous results. Care should be taken not to overload the crates, particularly in warm

DOOR CLIP



Plan of BOTTOM



These two drawings show construction and wiring of the door catch. The house door presses the brass spring at the point Y. The bottom plan shows how the wires are connected to the binding post B and spring. The wires marked W are insulated and continuous with Y. The post that holds the brass spring is connected electrically by being in direct contact with it. (See "April a Busy Month for the Poultryman.")

weather. Sixty pounds of light broilers, eighty to ninety pounds of heavy young fowls and 100 pounds of mature birds are all that should be shipped in one crate, and if the



weather is very hot this quantity should be reduced. In very cold weather we tack one-half of a loose woven burlap sack upon each side of the crate. This helps to keep them comfortable and breaks drafts, but one should always remember that express offices and cars are liable to be heated and two dozen four-pound fowls generate quite a little heat of their own. Commission men do not furnish crates free to shippers, but sell them and send by express or freight, therefore the poultryman will be saving money to make his own packages. Crates are made with 2x2 corner pieces joined with 1x2 strips 30 inches long, with a floor or bottom of 1/2-inch lumber (bevel siding or poplar clap boards will do) and sides and top of 4 foot lath. The lath are put on about 1 1/2 inches apart and two in the middle are left with the nails driven only two-thirds in, to be opened when the fowls are removed. Such a coop should not weigh over 36 pounds, and if well seasoned lumber is used will be amply strong.

* * * *

Last Summer we were pestered considerably by one large hawk who seemed to have little fear or respect for our regular dummy figures set up here and there to fend off unwelcome aerial visitors. His favorite trick was to fly quietly into a large maple tree from the side opposite our dwelling and wait until some unfortunate chick strayed close enough and then—swoop, and both were gone. After several attempts to bag him with the shotgun we rigged up one of the "scarecrows" in the tree itself, where among the leaves it closely resembled a man crouching. This worked perfectly, for thereafter the big bird shunned the tree like poison and soon stopped his visits to our farm.

* * * *

One of the best green foods for chicks is sprouted oats, and we have recently discovered that we can sprout them quickly in the sand trays of our moisture incubators and

with real benefit to the hatches. Oats in these trays will make long slender sprouts in a week's time and we get out three different fillings to each setting of eggs. It is a recognized fact that growing vegetation gives off oxygen and absorbs carbon dioxide, a process exactly reversed in the incubation of eggs. We have never obtained any exceptional hatches in the machines used to sprout grain, but the chicks all seemed of extra vigor and extra size. Along in the latter part of the hatching season when eggs hatch poorly and the chicks do not seem as full of "pep" as those of earlier dates we use these machines that have sand trays to accommodate the oats entirely and the two past seasons have proven to us at least that the practice is one worthy of pursuance. We leave the last "sprouting" in until the chicks are removed from the incubator and as it is more or less full of dust and broken shells we give it to adult fowls only.

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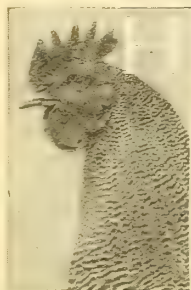
In the Spring and early Summer, when the poultryman has incubators, brooders and baby chicks to care for, in addition to his adult fowls, he should take advantage of every possible efficient "short cut" to lessen his duties. One little "kink" that saves us considerable labor when cleaning out small brooders and brood coops is to cover the floor of each with a square piece of rubber roofing. Especially in brood coops does this save us much trouble, and it enables us to do a more sanitary job. There are the droppings of the hen in addition to those of the chicks to remove, and it takes but a few moments to pull out the piece of roofing, scrape it off and replace. When the floors under the hovers of small brooders are thus covered the litter never becomes damp or caked, and the wood remains in its original new, un-germ-soaked condition. It would be better probably to have two squares for each coop. Then one could be "sunned" or washed off by a possible rain while the other was in use. If you are one of those by far too fussy poultrymen who believe every house, brooder and coop should be cleaned daily, this will enable you materially to put your conviction into practice.



The above Red Sussex male was hatched April 1, 1915, and won first cockerel at New York State Fair September 13, 1915. Photo taken at the time. Bred and owned by Frank L. Platt, Swanton, Ohio.

Barred Plym. Rocks and Their Breeding

CHAPTER III. Characteristics in Shape and Color of Young Birds Compared with Adult Specimens. *By C. H. Latham, Lancaster, Mass.*



NOW OFTEN WE READ in the advertisements of the winning exhibitors, "I won the most coveted prize of all. First on Cockerels," and the writer has been guilty of feeling the same way in making a winning in pullets. It shows the trend of the breeder's ambition, which is to produce a young bird that will stand out above anything else, old or young.

Wouldn't we really be getting nearer to the *real thing* if we bent all our efforts to producing the adult bird to be the best, regardless of age? Should not the adult

bird—the cock or hen—be our *finished product*, rather than to see how far we can force Nature in perfecting shape and color in the young bird which is "*still in the making*?" A large number of us work with this one thing in view: to push the young bird to the limit to conform to the Standard as closely as possible, and give no thought to what the cock or hen may make of themselves.

There is a change in the specimen, both in shape and color, that takes place when moulting its youthful plumage. It emerges from being a cockerel or a pullet and becomes a cock or a hen. The young and old birds compete together in Champion and Sweepstake prizes, and if the young birds win, as they often do, it is with more or less injustice to the older birds; for the reason that the young birds are still in the making, and may, when fully matured, *fall far short of being the birds they promised to be when young*.

Take a young bird of either sex that closely approaches the ideal in shape, will it still be the same when matured? It is safe to say that in a very large number of birds that it *will not* hold the ideal shape. There is always a settling down in

the general carriage of the bird, usually more in body than in breast, and a bird that seems well up on its legs and close to the ideal shape when young, will, when fully matured, have settled quite a good deal, carry its body nearer the ground, and it loses to quite a marked degree the fine shape it had when young.

A young bird that seems to be a trifle too high on its legs, somewhat rangy, and sometimes angular in outlines, often matures into an adult bird that settles down into a shape that closely conforms to the ideal.

As regards color and barring there is a wide difference between the young and old birds. In the young males the wing-bow feathering as well as the back and saddle, are of narrow feathers compared with the wider feathers of an adult bird. The barring also is finer and narrower when compared with the wider barring of the adult bird. When the young bird moults and gets its adult plumage, these feathers are wider, and carry a corresponding wider barring than they did on the plumage of the bird when young. We often see winning cockerels at our great shows, that have very narrow barring in these sections, and all comment on the beautiful narrow barring, but many do not know that this is because the bird is being shown in its chick feathers, and that when he becomes a cock he may have quite a different type of plumage. How many of the high winning cockerels do we ever see come back and win out as cocks? Very, very few. It is far more likely to be a late hatched cockerel that carried his small chick feathers thru the winter, and when he moulted and became a cock, his plumage is much like what we see on a well-matured early hatched cockerel; for the early hatched cockerel will have dropped more of his chick feathers, especially in wing-bow and saddle, than will the later hatched bird, that really does not mature till the following summer. These late hatched males often



First prize Light Sussex hen at Madison Square Garden, 1915-16; also first at Chicago Coliseum, 1915. Owned and exhibited by Houston & Hofus, South Charleston, Ohio.

moult in a narrow barred plumage of much brighter color than the earlier hatched ones do, and usually win out over them, tho really no better birds.

And with the females, the pullets naturally have quite a different plumage from what they will have when they moult and become hens. Standard color requirements for the female plumage call for the feathers to end in a dark tip. It is a mistake to require a pullet to have all of this perfection of plumage. The Standard should so read as to require the *adult* birds to have the plumage end in a dark tip, and modify this to a large extent in the pullet.

If we force Nature strongly we can get some of the pullets to show up the larger part of their feathers ending in a dark tip; but if we carry it to the extent that we get them closely to conform to our ideal in this respect, when the bird moults and becomes a hen the tipping is too wide or too dark in color, and the beauty of the surface color is lost, she has far too dark a color owing to the heavy tipping of the feathers. How many of the winning pullets do we see coming back and winning high as hens the next year? As with the cockerels we can say, very, very few. In their moult they have changed, many of them coming in too heavily tipped in plumage to present a pleasing appearance in the show room.

Many a pullet that showed but little of her plumage ending in dark tips, when she moulted acquired just the right tipping to be beautiful and a fine show specimen. If she had been

shown as a pullet she would have been turned down as not having sufficient quality in surface color to win. Such birds are very often our very best ones.

As a rule Nature does not clothe her young birds with the same type of plumage that she does the adult birds, and in the wild birds often the feathers are of quite different colors; so different that a novice would think them of a different species. Take our robin, the young bird does not have the full red color in the breast that is characteristic of the adult bird; it is speckled, and its true color does not appear until it becomes an adult bird. Those of us who are sportsmen and hunt the partridge will notice the wide difference in the perfection of the coloring of the adult cock partridge when compared with the plumage of a young bird. There is surely a difference in the plumage of young birds when compared with adult birds. And the Standard requirements for them should be specified. It is right here that the American Poultry Association could do some really helpful work. Let it get out a Standard that will be of some real help to the breeders. As it is now, it gives a description, more or less vague, of what an ideal bird should be. It tells the breeder nothing whatever to aid him to produce a bird to conform to Standard requirements. The ideal description of shape and color should so read as to imply to the adult birds, the cocks and hens, and a modified description be given for the young bird, or one that conforms to what they really are.

Sex Control in Poultry Breeding

CHAPTER I—A Discussion of the Theories of Sex Control.
By Herb E. Sharp, Spokane, Wash.

(Copyright, 1916, by Herb E. Sharp and Prince T. Woods.)

(NOTE—This is the beginning of a series of articles on sex control in poultry which we announced early in the Winter. Mr. Sharp has been experimenting with breeding to secure sex control for a number of years and since 1912 believes—says he "KNOWS"—he has at last succeeded in producing a line of Langshans that can be depended upon to produce 75 per cent pullets or better. The editor of *American Poultry Journal* has secured from Mr. Sharp three females and a male from this "Spok Anne, pullet producing, strain" and will test them out carefully, by trap nesting and pedigree hatching—the reports to be made later. We have also purchased two pens of Black Langshans and hatching eggs of the "Prince Ebony" Hewes' strain and eggs from the Robinson strain of winners, with the object of growing chicks from these alongside of the Sharp stock for purposes of comparison. We know that Herb E. Sharp is "sure" of his discovery, but we are entering this experimental trial with an entirely open mind and a desire to get first hand facts from our own observation for our readers. We now have an ample foundation stock in Black Langshans to make a careful experimental investigation of this matter and can carry the work along for a number of years if necessary. If any of the "Spok Anne" birds we have fail to produce 75 per cent pullets or better, Mr. Sharp guarantees to replace them with birds that will make good.—Editor A. P. J.)



AIRLY RELIABLE AUTHORITIES

state that there have been no less than 500 different theories advanced from time to time as the explanation of the peculiar phenomena observed in regard to the reproduction of the sexes, sometimes one sex and sometimes the other being produced. It is highly probable that, if one had time and inclination, it would not be a very difficult task to arrange them in groups or classes and we would find that they were mostly variations of perhaps a dozen or so really different

theories.

From my investigations there appear only five that really seem to merit careful consideration, tho there are many variations and degrees to be considered in some of these. And still, of these few theories, one is the direct and opposite result of another found from the apparent working of the same principle, and yet we have many able men firmly holding to both views, and neither side willing or able to present any real, definite and conclusive evidence.

In these articles it will be my purpose to present some of these theories with reports of certain experiments that apparently show definite and conclusive results, that seem to establish one theory and destroy all others; then to present in a rather technical paper—if a man who is not a technical man can present a technical paper—those physiological reasons that make possible the transmission and inheritance of the disposition to produce progeny that are more frequently of one sex than the other.

The closing article will be a careful presentation of certain well-known records, that tend to corroborate the results of experiments, conducted in the same field. While it may be impossible to present all of these records, that have come

into my possession, yet it may be possible to present sufficient evidence to convince any fair minded judge of the correctness of the theory advanced.

If one takes up this study with a prejudiced mind, do not expect to have all your prejudice, or ignorance, wiped away by the hand of one man—try a little experimenting on your own account.

One of the first theories that was brought to my attention was the one that holds, "Whichever parent is the stronger at the moment of conception will decide the sex of the progeny." Thus, if the sire be stronger in breeding powers than the dam, then the progeny will be a male, but if the dam be stronger than the sire then the progeny will be a female.

Many observers, who hold that a part of this theory is correct, claim to have found that if the sire is stronger, then the progeny will be female; while if the dam is stronger, then the progeny will be male.

Men of equally high standing in the scientific world have been found taking opposite views and defending their own views very strenuously, but mainly without any real tangible evidence upon which to base a conclusion, and it must be obvious that both sides cannot be right, and it may be possible for both to be wrong—and this we will show.

The second theory to attract our attention is the one that claims the age of the ovum, that is the length of time that it has remained in the uterus before fertilization takes place, is the factor that decides the sex of the progeny. It being claimed by some able men that if the fertilization occur at once, immediately after the passing of the ovum from the ovaries, that the progeny will be female; and if there is some appreciable delay before fertilization, then the progeny will be male. There are probably as many able scientists on one side as on the other, with an equal and formidable array of specious arguments, but seemingly a dearth of real

facts—and we will be able to show that both are in error.

Closely related to these theories is the one that deals with the alternating periods of heat; if the last calf was a male and the cow be mated at the first appearance of heat, the progeny will be a female; and if one season be passed then the progeny will be male. Again we have equally careful observers claiming that there is one period of heat that is not observable, after each freshening, and that this failure to observe the first period throws off all those who fail. It will be seen that this theory is based, like the others, more on opinions than facts.

Some of the very ablest writers have held that the sperm cells of the male are of two classes, one carrying the sex determinant that will produce a female, and the other carrying the sex determinant that will produce a male; and further asserting that the egg cell of the female, as it leaves the ovaries, carries no sex determinant at all, being in fact neutral. So that if no fertilization occur, then the cell disappears; but if the fertilization be accomplished by a sperm cell carrying a male sex determinant that the resultant progeny will be a male; while if the fertilization be accomplished by a sperm cell carrying a female sex determinant the progeny will be a female.

This principle probably comes a little closer to the real truth than any of the others, but when the female egg cell is considered as a neutral, and the sperm cell of the male is given the sex determinants, we have certainly gone wrong and reversed the real order of Nature, but let us prove it. And to prove it to the satisfaction of all concerned, let us be frank in the consideration of the claims of all these theories that we may be better able to apply the results of the experiments and better grasp the meaning of the different phenomena.

In a poultry show in the season of 1911-12 a discussion arose as to the relative value of narrow matings, and some one brought forward the objection that, "If one mated a good strong cockerel to only five or six hens, the chicks were sure to be all males." This declaration, so positively made, led to the inquiry as to results in different matings and it was stated that eighteen females to one male would produce mostly females, and twelve females to one male would produce about 50% of each sex.

It has also been claimed that cattle breeders, on western ranges have found that where there are only a few bulls, and those old ones, Nature, in an apparent effort to equalize the sexes, produces mostly males, while if there are several young bulls there will be in the progeny more females than males.

This is a direct contradiction of the former theory, yet it is equally shared and supported by some very eminent parties.

Having had a very close, and rather extensive, acquaintance with the men breeding cattle on the great ranges in the West, I am convinced that had any such phenomena existed, those same cattle men would have been the very last to have found it, or been able to trace to the source any particular cause; and further, if any such theory were true, no cattle breeder that ever lived could have lived long enough to have proven it.

Suppose a herd of a thousand cows all drop female calves when bred to a group of old and worn out bulls, and the next year the old bulls, having been replaced by younger ones, these same cows drop male calves—have they proved the theory? Perhaps so, to a western cattle man, but let us consider—the average cow drops a calf of one sex one year and the other the next year; so if we find an entire herd of even one thousand cows, all doing the same thing we have by no means set up conclusive proof of our theory, nor have we presented any indication that the change of sires has influenced the sex of the progeny.

It will require the life record of each and every female in the herd to show what the abilities of each individual may be.

If there is anything of real value in either form of this theory, it should be easily discovered, for in every large herd of registered cattle, where special attention is given to breeding fine stock, the sire is kept confined, by himself, and given the best of care, so that he is always in the best possible

condition physically and he is usually the strongest breeding animal on the place.

In most of these herds, at the present time, the cows are being urged to do their very best at the pail, and if not actually injured, they are certainly crowded close to the limits of endurance, for the sake of milk and butter records they may make. This high feeding cannot have a tendency to strengthen the female, so we have in all these herds, or nearly all, a strong sire and a weak dam—at least comparatively—and these conditions are so nearly uniform year after year, and these breeders so careful in their observations, that if this theory, or any other, had any bearing in either direction, the great majority of calves of the one sex would be so high that it certainly would have been brought to the attention of some of them before now.

The breeding of young heifers, and hard worked cows, to a strong and intensively bred sire, that is principally valued



for his great strength, could have but one result, if sex in the progeny followed the strong parent the calves would be *all males*; and if the sex of the progeny were to follow the sex of the weaker parent these calves would be *all females*, and the exceptions noted in a period of ten years' time, counting all cows in the herd would not approach 10 per cent. *No such case* has ever been brought to public notice, and if this theory were true, in either form, we would have thousands of cases, not alone of individuals, but cases of thousands of herds.

The age of the ovum has been said to control the sex of the progeny and the theory has been stated thus—if the female be paired as soon as her season begins the progeny will be female, but if she be held till near the close of her period the resultant progeny will be male. This has also been stated as having produced the opposite results, and the supporters of the theory may disagree as to which is correct, but they never seem to question the validity of the theory. If this theory were correct, then in those herds and flocks where the sire is allowed to run with the females all the time, the pairing would be reasonably certain to occur very close to the beginning of the season, and the resultant progeny would all be of whichever sex the law of Nature required, but they would practically be all of the same sex. Thus, if Nature had so arranged her plans that mating early

in the season would produce females, the progeny in these herds or flocks would all be females, year after year, and as no such result has ever been claimed we can readily pass the theory.

Great stress has been laid on the influence some observers



First Single Comb White Leghorn cock, Chicago Coliseum Show, 1915. Owned and exhibited by Frank E. Hering, South Bend, Ind.

have found by the alternating periods of heat, where one period produced a male, the alternate period is claimed, in some way, to produce a female. This theory was widely discussed and very ably defended as early as 1885, and though many breeders have attempted to secure some definite and satisfactory results, by counting the periods as they appear and also counting one period immediately after freshening, no one as yet has been able to present any definite results that would indicate the correctness of the theory. It would be highly improbable that any cow would go thru life dropping calves of one sex, and that her daughter should do approximately the same without being recorded and the presentation of an authentic record of a performance of this kind should be sufficient to disprove the theory, for in presenting such a piece of evidence we present a group of phenomena that cannot be explained.

When we consider the sperm cell of the male as carrying the sex determinant, we take up a question that it not so readily disposed of. Many men who watch their cattle closely have seen families that dropped very largely calves of one sex, and have been led to the conclusion that in some way sex tendencies were transmitted from parent to offspring.

We have all been taught that the sire is one-half the herd, and we naturally look to the sire first when any difficulty occurs in the progeny. Now if the sperm cell of the male carried the sex determinants, we would have little difficulty finding a male whose sex determinants present at the time of fertilization would be divided in the proportion of nine males to one female, and such a male would naturally be the sire of more males than females, and the trait would very likely be inherited by his progeny—especially would this be likely to occur where close breeding had been practiced. As this was closely and very generally practiced up till a comparatively short time ago, there should be no trouble now in finding such families, and in finding one such family we would find a family that would not average one calf in five a female, and such a sire would produce about as many heifers from one cow as another; we would have whole herds doing approximately the same thing, year after year. As no such

herd has been found where all the cows did, year after year, produce the same general proportion of the two sexes, some other influence must be found.

The fact that no sire has yet been reported that had a fair opportunity and failed to produce some female calves—yet if the sire controlled the sex of his progeny we should have many of them with such records, indeed if many families had not ceased to exist for lack of females—should be taken as conclusive evidence that there is some other influence in control.

Now we have the last, and the one that—while it is not new—is the one that is susceptible of conclusive proof—and in the pages to follow we propose to submit some well-known and definite facts that are incontrovertible that we hold support this theory, and under this theory we shall see that every possible condition is susceptible of a reasonable explanation.

The egg cells of the female are not neutral, but when they leave the ovaries they carry the sole sex determinants as much a part of their organization as they ever become. As the female carries the sex determinant, then she decides the sex of her progeny without regard to any other, or outside, influence at all. Hence some females go thru life bearing progeny all of one sex, or mostly of one sex, and very naturally transmit the same character to their daughters—as well as to their sons—who in turn pass it on to their daughters.

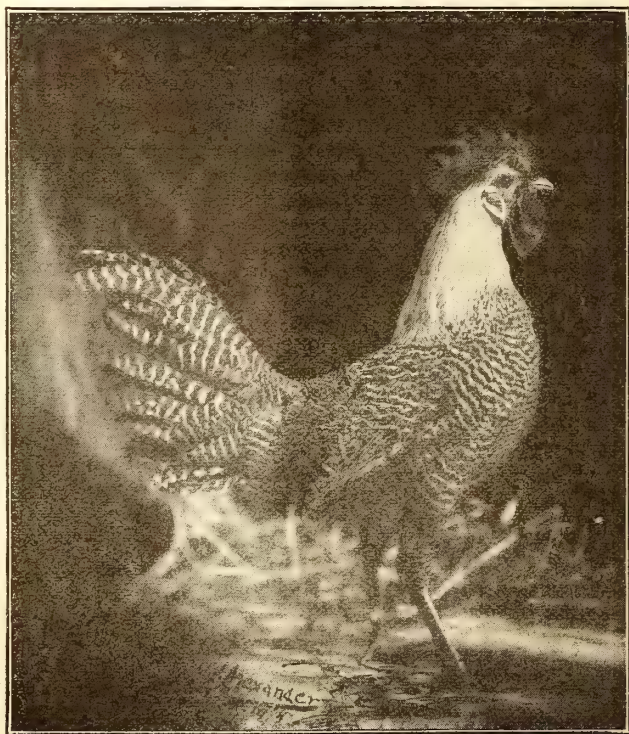
Such cows have been noted by many breeders, and it has also been a frequent occurrence for such a cow to have her record duplicated by her sisters, and by their daughters as well as her own.

Now any theory of sex control that will apply successfully to cattle must also apply to fowls, for Nature draws her laws uniformly for all alike and plays no favorites.

If it applies to cattle and fowls, it must then apply to all other forms of life, so long as conditions can be complied with; and, of course, where conditions cannot be complied with the results can hardly be expected. The principle that we hold has so far been found effective in plants as well as live stock.

The proof of the pudding is said to be in the eating, and no theory need be regarded long until there is some tangible evidence of its efficiency. It may be all right on paper, but let us see how it works in the barn yard.

(Next installment will discuss results of experiments.—Editor.)



First prize Silver Campine cockerel, Kansas City, Mo., January, 1915. Bred and owned by M. R. Jacobus, Ridgefield, N. J.

Nationalism or Fraternalism! Which?

Comment on President Richards' San Francisco Address and An Appeal to Eliminate a Growing Element of Nationalism in An Organization Which Should Combine True Fraternalism and International Interests.

By W. Miller Higgs, Victoria, B. C.

President of the British Columbia Branch of the American Poultry Association.

(Note.—We hope that every thinking member of the American Poultry Association will read this appeal to reason by President W. Miller Higgs, of the B. C. Branch. The American Poultry Association is and should be international. We cannot afford to permit it to develop along the narrow lines of nationalism,—we should not allow any national spirit to creep in and antagonize our fellow members who live outside the boundaries of the United States. The interests of all poultry breeders of the whole North American Continent are common interests and all are concerned in the upbuilding of the poultry interests in All-America. In fact, if we develop our organization as it should be developed along truly live modern and broad lines for better American poultry and more of it, we should eventually make our organization as nearly Pan-American as possible, not only North America but All-America. The trend of progress is away from narrow nationalism. There is no nationalism in education, science, medicine, surgery,—knowledge, art, healing, service, and helpfulness to humanity are for all people everywhere. It may not be practicable to extend our American Poultry Association at the present time beyond the boundaries of this continent, but it should be more truly international in character and it should, at least, be very careful to preserve and promote a strong bond of fraternalism among poultrymen thruout the North American Continent. The Canadian Maple Leaf on the insignia of our American Poultry Association means something—means a great deal—and it should mean a great deal more. The maps and the customs departments indicate a dividing line between the United States and Canada, we know that a boundary line divides our separate governments, but a poultryman from the States traveling in Canada or a Canadian poultryman in the United States does not find any dividing line in the fraternal bond between poultrymen, we are the same kind of human beings, with much the same interests, the same lines of blood in the ancestry of most of us, and in matters concerning the uplift and progress of our common poultry interests we ought to stick together. We feel very strongly on this subject. We appreciate the good work that is being done by the Canadian Department of Agriculture, as we also appreciate and take pride in the work of our own State and National Governments for agricultural and poultry progress. There should not be any more sectional or national feeling between American Poultry Association members in Canada and the United States than there is among the member of our several States. Let's get together and try to think broadminded thoughts and do helpful work for the poultry breeders of All-America.—Editor, American Poultry Journal.)



ROTHER MEMBERS of our A. P. A., in every state and in every province of the North American Continent where a branch organization of our great American Poultry Association exists, I ask your careful and very thoughtful consideration of the subject upon which I have felt bound to write, as it is one of *vital* importance at the present time.

The Quarterly Bulletin (January, 1916) is no doubt by this time in the hands of every member, and we are all familiar with what was done in connection with

the fortieth annual convention. Our President Richards' address is before us all. He is anxious as any of us for progress, but in order that our association may expand and we may be enabled to co-operate with him to this end there are certain matters which must be made clear, and his address to the convention at Frisco emphasizes this fact.

The subject assigned to him for his address was: "The History and Possibilities of the American Poultry Association." In opening his address he said: "The historical part of the association I am going to eliminate, because I see we have an attendance of live ones, and Mr. Lively has informed us that this is an exposition of modern ideas and I am simply going to take the latter part of my text, the Possibilities of the American Poultry Association."

Now, Brother Members, by our leader cutting his "text" in two and only dealing with the latter half, I venture to believe, and I also feel that many will agree with me, that Mr. Richards has inadvertently made a serious mistake. The real meaning of the "text" has been lost, and many new members may be entirely misled by his address upon the great work of the American Poultry Association. It is *impossible* to eliminate "The History" of the association without losing the very character of this great organization, and it is this which has led me to take a somewhat strange subject upon which to write to all our fraternity.

For "forty years" the American Poultry Association has been attempting to promote "the poultry industry of America." What do we understand by this? Do we understand that the association has been working for the upbuilding of a great organization as a United States institution, or as a great association of poultrymen on the continent of North America—which? It would seem from our president's address that he holds the former view, but if we remember the history of the organization we know that the word "America" means the continent of North America. Brother Members, the very name of our association has come to be misleading to many. Many forget that our emblem is composed of the Stars and Stripes surmounted, or charged with the Maple Leaf of the Canadian section of this continent, with the wish bone of goodwill, which in itself very clearly denotes the character of the A. P. A. and it is because we are a

body of "live ones" that we regret that our president has omitted to deal with the history of our association.

We are an organization of live poultrymen, whose one aim should be the furtherance of the breeding of better stock on the North American continent, and if we are to progress upon the old lines upon which our association was founded we cannot allow "Nationalism" to have any place.

If the feeling of the majority of our members is that the A. P. A. shall be national in character, then in all consistency remove the Canadian emblem, for unless we are to hold together as a great fraternal institution of poultrymen, irrespective of nationality, with equal rights, representation and privileges, we had far better work separately under our own national emblems. But, is there need for such a break? Is there any sane reason for bringing a national spirit into so old an organization which has done so much in building up a great continental industry? However, to my way of thinking there is a pressing need at the present time to make the true character and history of our association known and should it be thought wise in order to maintain and emphasize its old character to make some change in the name such as "The North American Poultry Association" or "The American Continental Poultry Association" let us do so. I am personally strongly against any such change as "The American-Canadian Poultry Association," a name which I have heard rumored, as that at once brings into it national feeling which will work more harm than good.

We cannot get away from the fact that there is among us a good deal of the national element—which is not a "modern idea." But for the misunderstanding of the very name of the association there would be a far larger Canadian membership. Again and again Canadian poultrymen have raised this point with me. Time after time have I endeavored to explain the true character of the A. P. A., both personally and thru the poultry press, and unless some action is taken soon to safeguard the interests of the organization by making this point definitely clear to all, nothing can prevent a quite unnecessary break. Our president by his address, tho no doubt quite unintentionally, only emphasized the national spirit and deterred membership from hundreds—yea thousands—of poultrymen in Canada. He freely speaks of the United States Department of Agriculture, but the Department of Agriculture of the Dominion of Canada, which has done and is doing a great work for the poultry industry, is not mentioned. Then there is the question of the text-book for use in all our schools, the importance of which cannot be too strongly emphasized in order that our younger generation may become familiar with the rudiments of poultry knowledge. This text-book, however, cannot expect to be received by both the Educational Departments of the United States and the Dominion unless it is drawn up and put forward in a diplomatic manner as from an association of all the leading poultrymen in North America without any national character.

I entirely agree with our president when he says: "If there is anything to be done to elevate this industry it lies in the hands of this association; it lies in the hands of the officers and members of the association." And as it is my privilege to be now serving the B. C. branch for my third term of office as its president, I feel that a very serious responsibility rests upon me, as well as upon all other state and provincial presidents, and all members alike of our great organization to do all in our power to further the good work of the A. P. A. and to point out the absolute necessity at the present time for organization upon a broad and fraternal basis and a cutting out of any national feeling which undoubtedly has crept in and which is barring the way for

advancement. I feel sure that President Richards himself, when he reviews the former part of his "text," will see how we cannot eliminate the history of our association without losing much and will see how his address for advancement may be misunderstood by many poultrymen in Canada, and instead of encouraging their support and co-operation it will probably have the opposite effect. I also feel that he will, with all other state and provincial officers, be willing to do all that is possible to maintain the very foundation of the A. P. A.—namely a great fraternal organization of poultrymen on the whole continent of North America for the good of our great poultry industry, and thus save any possibility of a serious break upon *narrow national lines*.

How to Breed R. C. W. Leghorns and Why

First Prize Article Winning the Trio of "Beauty and Business" Rose Comb White Leghorns Given by M. C. Wilson, Oil City, Pa. *By Walter T. Mattinson, Glace Bay, N. S.*



THE MEN WHO have been and are developing the R. C. W. Leghorn, have Avoided the mistakes of their predecessors with older breeds who have developed exhibition birds that were good for nothing else, or "bred to lay" birds that were no good in an exhibition coop; and have kept constantly before them the ideal of a breed of fowls that would fill the requirements of the standard as well as the utility qualities required to make a breed a success.

Those who have been most successful in breeding R. C. W. Leghorns have practiced "line breeding," which is now generally recognized as the proper method. The first essential in this is to have a good strain of birds for foundation stock. When possible, two-year-old hens should be mated to a well-matured cockerel, altho good results can be obtained by using well-developed pullets. One of the advantages of using hens is that the egg record for their pullet year may be taken into consideration in choosing the breeders, but they should also approach as nearly to the Standard of Perfection as possible and, more important still, be strong, healthy birds which have never had any constitutional weakness and have matured quickly. Pay particular attention to type and general conformation in both male and female, choosing a male that is exceptionally strong on points that the females may be weak on.

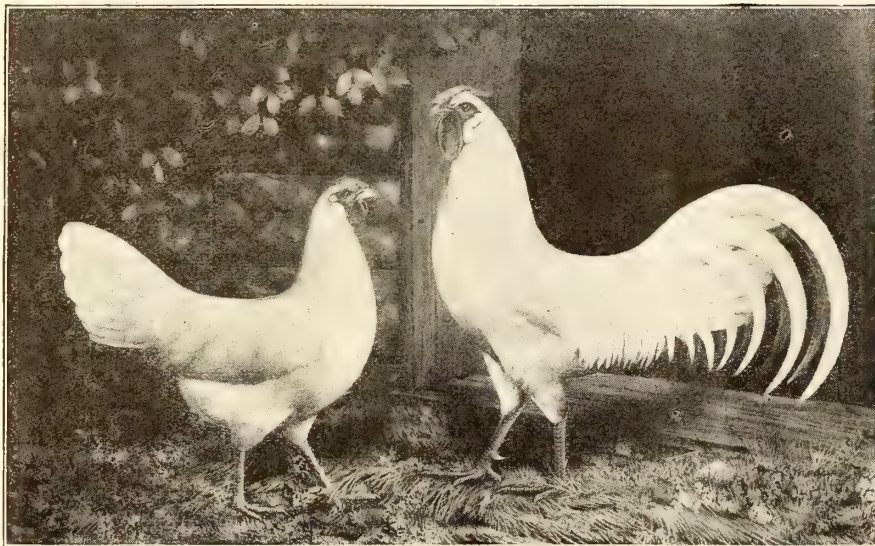
The head should be small and neat with bright red eyes, which indicates strength and breeding quality, and a nice standard comb which will never be touched by frost if kept low and firm on the head, as required. The tendency in this connection is to breed for large combs which develop into "lops" and spoil the beauty as well as catch cold. Feed the birds for health, not egg production. If they are kept in good condition they will not only shell out the eggs but the eggs will hatch. Feed grain twice a day raked into a deep litter. Keep a dry mash before them all the time. Meat should be fed in some form, but sparingly, and fresh water, charcoal, grit and oyster shells should

be always accessible. If the birds are confined, feed green food five or six times a week. Alfalfa, sprouted oats and cabbage are all good. A wet mash may be fed twice a week, but is not essential. House the breeders in bright, well-ventilated quarters with a southern exposure, allowing about four square feet of floor space per bird, with a dust bath for exercise in cold and stormy weather. The southern side of building should be at least one-third cotton, so arranged that it can be opened in fine weather and another third glass, put in low down so as to supply plenty of light on the floor. As much yard room as possible should be given. If the birds are kept under these conditions, twelve females mated to one male will give nearly 100% fertility and hatch chicks that will live and grow.

Chicks hatched and brooded by hens are stronger than incubator hatched chicks, and for this reason it is advisable, where possible, to use hens. The incubation will have to be done by one of the sitting breeds as the R. C. W. Leghorn believes in egg production and has no time to sit around. Chicks intended for breeders should be hatched in April or May, as the vitality is strongest in those months, but those intended for egg production may be hatched at any time in the year and, with reasonable care, will lay at five or five and a half months, whether Summer or Winter. The chicks will thrive well on range, but also do well in close confinement if supplied with green food and for this reason are especially suitable for town lots.

A flock of Rose Comb White Leghorns, with their beautiful white plumage, bright red combs and graceful carriage, will attract the admiration of all beauty lovers whether seen on a lawn or in the exhibition coop, but their beauty, altho unsurpassed by any other breed or variety, is only one of

their many claims to popularity. The pullets develop very rapidly and start laying any time after five months, many individuals laying younger, with the result that the R. C. W. Leghorn pullet has usually paid for her rearing and has a bank account to her credit before the majority of other breeds have started to pay their board. When the "cold snaps" come and the thermometer drops out of sight the little Rose Comb keeps right on singing



An ideal pair of Rose Comb White Leghorns.

and working. You have your fresh eggs for breakfast while your neighbor is losing his breakfast to get his Single Comb variety thawed out. The cockerels develop very rapidly for the first ten or twelve weeks and can be disposed of at a good price for broilers, or if you do not fancy this method of disposing of them, give them to the cook and she will turn you out a dish that will equal any fowl you have ever tasted.

To sum up. The Rose Comb White Leghorn is one of the most beautiful varieties of domestic fowl, is very easy to breed, is a non-setter, has a strong constitution and will live and lay under almost any conditions. Develops and lays younger than almost any other breed, and also keeps on laying thru all weather. The eggs are very large for a small breed and will compare favorably with those of the heavier breeds. The cockerels and surplus hens make a tasty dish for the table. They can be bred successfully in a small enclosure and, last but not least, their board bill is at least 20% cheaper than for any of the larger varieties. A combination that beats anything in existence for maximum poultry efficiency at minimum cost.

Type Should Be the Main Consideration—Winner of Second Prize, a Pair of R. C. W. Leghorns Given by M. C. Wilson. By Lawton B. Quimby, Laconia, N. H.



IN STARTING TO BUILD UP an exhibition-business strain of R. C. White Leghorns, do not get too many birds in the breeding pen. Many people believe that they must have twenty-five or thirty females in each pen. This is not so. In fact, better results are obtained if only three or four birds are used. In this way you become acquainted with each bird and thus study its points more carefully. One hen will lay an average of about 80 eggs during the hatching season and by incubating all these a very good

start can be made with a few fowls.

In selecting breeding birds there are three main points to be considered—shape, color and comb. It is understood that any bird to be put in a breeding pen must be in perfect health and condition for it is nothing but a waste of time to breed from diseased stock. But taking the three other considerations, it will be found hard to get them all in one bird in any variety.

Select a male with as good typical shape as possible, a large well spread tail, carried at a low angle; a bird with a good comb, one that is not lopped to the side or with a crooked spike. The comb should be even and square on the head and fairly small. Select a bird well up on yellow legs and of good Leghorn type. This is most important for tho your birds be purest white and have perfect heads, they cannot win without good shape.

Select females of large size; nice neat, well-shaped combs, not too large. Pick long bodied females, for upon this depends your ability to get the beautiful, low tail so much admired in the male bird. Select only such females as are active and vigorous, since good results cannot be obtained unless the birds are in the pink of condition—and always have been.

Trap nests are important in establishing quality in a flock. First because thru their use you may determine the eggs from each hen and mark her descendants. If she fails to come up to your expectations one season, you are able to discard her or if on the other hand she has made good, you know she should be retained in the breeding pen. Second, the trap nest is the only sure way of knowing the number of eggs laid by individual hens.

A few reasons why I breed R. C. White Leghorns are as follows:

Their eggs are of a fair size and are chalk white, such as are demanded by a good percentage of the people.

They are noted for their great egg laying ability. A R. C. White Leghorn won the National Egg Laying Contest in the year ending December, 1914, with a record of 260 eggs. Most egg farms are boosters of the Leghorn.

At the period of the year when most breeds are busy with their broods the Leghorns are busy laying eggs.

It takes five or six square feet per hen for larger breeds where a Leghorn requires but two and one-half feet. This is important when the cost of buildings is considered.

Two Leghorns may be kept on the same amount of food required by some of the larger breeds and at the end of their productiveness the two Leghorns will weigh as much as the larger bird and will have produced three times as many eggs. This is an important consideration when food bills are to be paid.

The pullets begin laying early, many at four months and most of them by five months. By this the Leghorn gains on extra eggs when prices are highest.

The low comb is non-freezing. This is a great advantage when we consider the amount of time it requires to treat frozen combs. A hen will not lay much when she has a frozen comb.

The cockerels mature early, selling at top prices when weighing one pound to one and one-half pounds. At this period the flesh is very tender, and the bird is not all bone, as are some of the heavier breeds.

Their white plumage is most beautiful and when the birds are dressed there are no dark pin feathers to disfigure the perfection of the dressed carcass.

Their yellow skin is preferred by all the markets in this country, thus giving them an advantage over white fleshed varieties. They are growing daily in popularity and have advanced strictly on their merits and will continue to do so.

They are always active and hardy. When not scratching for a living they are filling the nests.

There is no more beautiful sight than a fine flock of Rose Comb White Leghorns out on a good grassy range early in the morning. The graceful alert males, with their low well-spread tails, low combs and snow white plumage, with the trim active beautiful females following their mate about.

Considering all these reasons for selecting this desirable variety, I think many will agree with me in saying that no other fowl approaches them in their all around combination of fine qualities and advantages.



Geo. N. Barstow of Oneonta, N. Y., is rapidly forging to the front as one of the leading Eastern Ancona breeders. His birds made a fine winning at the Palace Show, Syracuse, N. Y., and at Allentown, Pa.

The Hatching Season of the Fancier

This Covers a Period from January 1st to September 15th. Successful Breeders Differ As to the Best Month. *By Chas. A. Simmonds*



THE MAJORITY OF POULTRYMEN prefer to hatch their chicks in March, April and May. This is because chicks hatched during these months can be raised with the least labor and expense and will stand neglect better than those hatched earlier or later. While for the utility breeder such an excuse is sufficient, it is very different with the fancier whose object is to improve his strain by selection and pedigree breeding. He finds his goal will be much easier reached if he can extend his hatching season and

produce chicks that will develop into prize winners from six to nine months instead of only three. The principal advantage one gains by extending his hatching season lies in more closely culling his breeding stock. The breeder who hatches from eight pens in three months can hatch an equal number of chicks from four pens in six months, which would require but half the number of breeding birds, and they being the best would mean a corresponding increase in the average quality of the chicks raised.

Of course the reader may be one of those who claims to have reduced the mating question to such a fine art that he never produces any culls, nor any birds he can afford to sell for less than \$5 (as some breeders advertise).

Supposing this to be the case, I shall ask you to imagine yourself looking over the class in any popular variety at the Chicago or Madison Square shows. Here is a class of fifty pullets, the cream of the continent, the best birds selected from the best flock of the variety, the greatest production of the most skillful breeders, finished products of their art. And now comes the judge to cull this great string of pullets

and select the winner. Slowly he walks down the aisle, giving each bird one, two, or three marks for shape and color or crossing out those he considers unworthy of further consideration. At last he has the class culled down to five or six birds. These he examines very closely, considering all the minor points to ascertain their proper placing.

It may be that some breeder has been able to produce a wonderful pullet several years in advance of the breed's progress towards perfection. More likely the first and second prize winners are very close in quality, and it is often some minor point, such as a wrinkle in the wattle or a speck of color in the ear lobe, that decides the winner. But eventually the judge must cull the class down to one bird, the blue ribbon winner. And thus must the breeder, who is a successful breeder of his variety, be able to cull his flock to the one best bird. Such breeders recognize the value of extending the hatching season and hatching only from their very best birds but are often prevented from doing so because they are unsuccessful in rearing the chicks hatched out of the natural season.

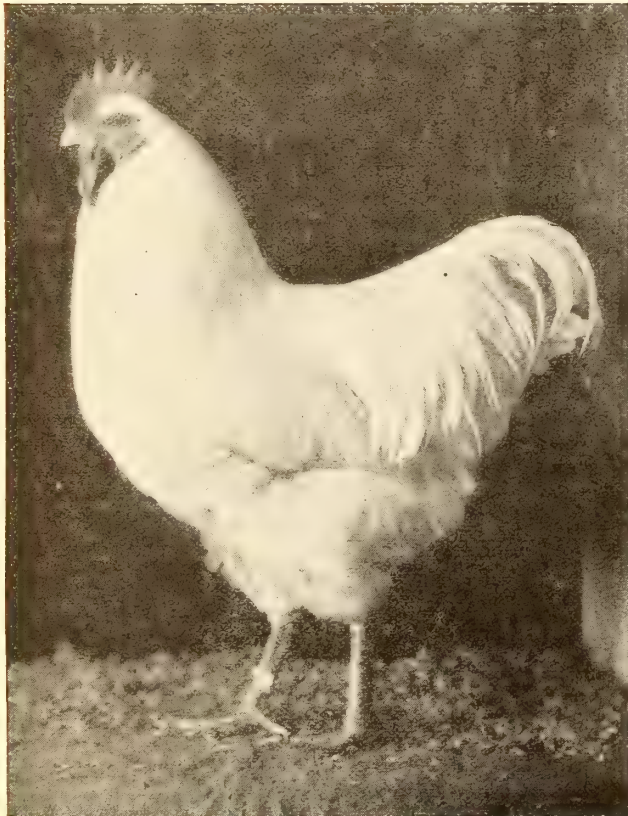
Successful breeders do not agree as to the best months for hatching, nor the best system of brooding natural or artificial. I know that ideal weather conditions are a great help, but have never been able to determine the best month for hatching in advance as here in Central Illinois we frequently have April weather in February and February weather in April. I have found, however, that if I suit the feed and care to the system of brooding (natural or artificial) and the season and weather conditions, I can raise fine birds in most any month. The system of feeding chicks that is best for those brooded by hens and given free range is not at all suited for those brooded by artificial means and confined. Chicks hatched in the natural season can secure large quantities of insects, worms and tender sprouts of weeds and grass, and unless the early chicks are supplied with substitutes they cannot be expected to make satisfactory growth. Lean meat, milk and eggs make good substitutes for insects, while the tops of sprouted oats, lettuce, raw potatoes or apples are all excellent green food. Both animal and green food should be fed once a day.

For hatching my best eggs and brooding the chicks I always use hens when obtainable, not because there is any noticeable difference in the quality of the chicks raised, but the natural method, if a little thought and system is used, is a labor saver. Any number of hens can be set in the same house at the same time and require less care than an incubator. When the chicks hatch each hen can brood about half the number that should be put in any make of brooder, and one has no lamps to care for or thermometers to watch.

Whether they are raised with hens or brooders, chicks hatched before April should be either brooded indoors or have a good sized exercising coop attached to their brood coop or brooder. For a brood coop for early brooding I prefer what I call an adaptable coop, because it can be used for every purpose for which a coop is wanted, a brood coop for a hen and chicks, a roosting coop for half-grown chicks, or a "cockerel coop" for surplus males.

These coops are 6 ft. long 3½ ft. wide, 3 ft. high in front and 2½ ft. high at the back. The roof projects 16 in. over the front, half of which can be closed by a solid board door, other half is left entirely open. When used as a brood coop the door is fastened shut and a lathe frame used to confine the hen to this closed side. There is a solid board floor in the coop, and when used as a cockerel coop a frame 3x6 ft. with board sides and wire top is used in front of the coop. This is also useful in protecting the chicks from the wind at times.

The feed given early chicks the first week may be the same as for chicks hatched at all seasons. The first few days a chick needs warmth more than anything else. The feed used at this time should be easily and quickly digested,



KING CHAMPION JR.

Cockerel heading first young pen of White Plymouth Rocks at Chicago Coliseum Show, December, 1915. Owned by H. W. Halbach, Waterford, Wis.



FIRST PRIZE PEN SINGLE COMB WHITE LEGHORNS BOSTON SHOW JAN 1916
BRED AND OWNED BY OWEN FARLEY VINEYARD HAVEN, MASS

and had best be moist, as some chicks are a little backward about learning to drink, especially brooder chicks.

Nothing is better than bread and milk for the first feed. I consider oats in some form the best grain for feeding fowls of all ages, and after chicks are two days old, feed rolled oats, alternately with the bread and milk.

Exercise is necessary for proper growth, not only does it aid in digestion and assimilation but helps to keep the chicks' contented when in confinement, which is very important. To induce chicks to exercise I scatter grain in the litter, also feed them pieces of apple or raw potato.

After the first week I never give more than one feeding a day of mash or soft feed. This is first bread and milk. Later I add rolled oats, bran, middlings and corn meal, also a little fresh meat boiled and run thru a food chopper, or a little hard boiled egg. This mash I give as early in the

flaked oatmeal, twenty-four parts hominy dampened with fresh whole milk.

This ration originated with Chas. Hubbard, manager of Foxhurst Farm, and has since been adopted by several other leading breeders.

As this mixture contains both mash and grain feeds, it needs only to be fed three times a day. Much of the prepared chick feed on the market is composed of mouldy or heated grains, especially corn. The hominy and rolled oats being made for human food are made from the very best grain, so there is no danger of this mixture causing bowel trouble or of the chicks being poisoned.

I buy the rolled oats in 90-lb. bags. They are made by the Quaker Oats Co. and cost \$2.90 per bag, if bought from a wholesale grocery house. Some breeders feed this mash to the chicks till they are six weeks old. But I only use it the first four weeks, and then begin feeding from the Norwich Automatic Feeder. This grain mixture I feed the chicks from four to six weeks is equal parts rolled oats, cracked wheat and cracked corn. After six weeks I change to coarser cracked corn and whole wheat, adding whole oats when chicks weigh about three pounds each and gradually increase it as they will eat it.

Before I begin using the Automatic Feeder for feeding the grain I teach the chicks to eat a good dry mash. I consider Blatchford's milk mash the best dry mash that can be fed to small chicks. I use it from the fourth week until the chicks weigh about three pounds, then gradually change to a mixture of three measures bran, one measure each of corn meal, middlings, ground oats, beef scraps, a little oil meal, charcoal and salt.

While some very successful breeders use either dry or wet mash exclusively, the majority are now using both. Some time ago Mr. Stoddard, of Texas, in one of his writings for this paper, claimed that his birds would not eat nearly enough mash if fed dry, he finding it best to keep whole grains and wet mash before his birds in boxes where they could eat all of either they desired. Concerning which Dr. Woods wrote that he believed Mr. Stoddard's failure to induce his birds to eat enough of the dry mash was due to the excessively dry, hot climate of Southern Texas, as his own fowls (in Massachusetts) would generally eat a sufficient amount of dry mash. I have since found by experience that this theory of the doctor's is correct and worthy of the consideration of everyone who would feed their birds for best results in all weather conditions. During dry or warm weather the appetite of the fowls is never so good as when the weather is damp and this seems to be especially true of their appetite for dry mash.

During the Summers of 1913 and 1914 I fed my growing chicks a damp mash every morning and also gave sprouted oats at noon, as the grass was so dry it was little better than hay. Last Summer was a great contrast and there were many weeks during which my chicks did not receive any but dry feed, yet their appetites were better and they made more rapid growth than the chicks of the two seasons before. When chicks can secure a large number of worms and insects as well as fresh, succulent clover and grasses they do not need a mash of any kind. When the weather is so dry that the range does not supply these things, damp mash and sprouted oats or rape grown under irrigation must be supplied.

I use bread and milk for small chicks and boiled barley as they get older, drying these off with rolled oats and the dry mash mixture. If beef scraps are used in the dry mash during the warm weather only a little should be mixed at a time, as the mixture spoils much more quickly than any of the separate ingredients. A safer rule is to scald the beef scraps and feed in the damp mash.

It would not be necessary to keep a dry mash before the chicks while feeding the damp mash, but by doing so I find I have no trouble in getting the fowls to eat plenty of it when I discontinue the damp mash. After the first of October I discontinue feeding wet mash (except in small quantities once or twice a week as a change of diet), as I believe they result in more harm to the birds than good when fed during the damp cool weather of autumn.

While it will not pay to hatch a large number of chicks



morning as it is light, and the last feeding of grain just early enough to give the chicks time to clean it up before dark.

Early chicks should be fed four or five times a day at regular intervals.

After the first week I use a mixture of equal parts, rolled oats, cracked wheat and cracked corn. This is scattered in the litter till the chicks are four weeks old, then I always use an automatic feeder for feeding the grain ration, which at this age is the same at all seasons.

Chicks hatched after April 1st I coop on free range, giving each hen about 15 chicks in a coop not less than two feet square.

The worst thing you can do to chicks is to crowd them. Fifteen chicks to the hen or 35 to each outdoor brooder is enough for any season.

I always place the brood coops about 30 ft. apart the closest way. This eliminates trouble with broods mixing and gives each brood a chance to secure plenty of insects. In selecting a range for the chicks I give preference to a field of short grass on one side of the coops and a cultivated field on the other side. During warm weather I always place the coops in the shade.

The best ration I ever used for chicks brooded with hens and running on free range is the following: Three parts bran, two parts middlings, one part rice flour, twelve parts

in any month later than May, the fact remains that many prize winners have been hatched in all months from May to October. If one desires to hatch in August and September the breeding pens should be broken up and the best birds remated later, giving preference to the hens that went broody and reared early chicks. These late matings should be given fresh yards with outdoor roosts. As soon as the females return to laying nearly all the eggs will hatch strong chicks, which will make very rapid growth during the ideal weather of September. If you will keep these late hatched chicks away from the older birds and give them good care thru the Winter months you will find them excellent show birds and breeders the second season after hatching. Failure with late hatched chicks is generally due to one of three causes—either lack of fresh range apart from the older fowls, crowding in the coops at night or permitting them to become lousy. Every hen hatched chick has lice. As soon as hatched they should each have a drop of olive oil rubbed on their heads. Later put a handful of Persian insect powder in a sack, put in the chick and shake it up. The powder will work in thru the feathers and will not injure the chick. After the chicks weigh about three pounds you can use any good ointment, such as Licene.

Pullets to be in best condition for exhibition should be shown when just ready to begin laying. Early hatched pullets will often begin laying before sufficiently mature. If not hatched too early this may be prevented by moving them frequently and feeding no meat food or damp mash of any kind as they near maturity. The best way to use the early hatched pullets is in a utility pen, from which you desire to obtain a goodly number of broody hens during each of the Winter months.

For showing at the same show the cockerels should be a month or two earlier than the pullets. In fact the older a

cockerel is the better, if one has been careful to so feed him that after he is thru making frame he will grow the flesh and feathers necessary to give correct symmetry and still keep his comb where it belongs. Stimulating and heating foods such as meat and corn have a tendency to make the combs too large. A little bread and milk in the morning with plenty of green food and grain (mostly oats and wheat) makes a safe ration for conditioning mature males which are unmated. If our early cockerel is mated his comb can easily be kept of the proper size, but he will loose in breast shape and symmetry. When the cockerels weigh about three pounds each they should be separated from the pullets. If the sexes are kept separate after this age both will make more rapid growth, the cockerels especially grow better and can be kept together longer without fighting.

At a meeting held at the Roycroft chapel in East Aurora, N. Y., one evening early in October, a Bureau of Poultry Husbandry was formed with a charter membership of twenty-two. The bureau is to be operated under the instruction of R. S. Moseley, a Cornell graduate, who will consult with and advise the members, visiting each farm at least once each month. This is the first bureau to be formed in New York state, and, if successful, several others in various localities will be organized, all to be operated under the Cornell University management, with a local instructor.

Springfield, Mo., has become one of the greatest poultry shipping centers in the entire country. For the year ending June 30, 1915, a total of approximately 2,570,000 head of poultry were shipped out of that city. The shipments included 226 cars of live poultry and 160 cars of dressed poultry, with from 6,000 to 7,000 birds to the car.



PRIZE WINNERS, PANAMA-PACIFIC INTERNATIONAL EXPOSITION, SAN FRANCISCO, CAL. NOV. 18-25, 1915
BRED AND OWNED BY A. C. HAWKINS, LANCASTER, MASSACHUSETTS

"WE LEAD, OTHERS FOLLOW"

EDITORIAL

American Poultry Journal

Entered as Second-Class Matter August 9, 1886, at the Postoffice at Chicago, Ill., under Act of March 3, 1879

65,000 American Poultry Journals for
April, 1916.

State of Illinois, County of Cook, ss.:

G. M. Atwell, president of the Atwell Printing House, Chicago, being duly sworn, certifies that the American Poultry Journal has contracted for printing and binding 65,000 copies of the April, 1916, issue.

G. M. ATWELL.

Subscribed and sworn to before me this
15th day of March, 1916.

[SEAL]

HENRY G. EISENT,
Notary Public.

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We guarantee our subscribers against loss due to fraudulent misrepresentation in any display advertisement appearing in the American Poultry Journal, providing the subscriber when ordering the fowls or merchandise states that the advertisement was seen in the American Poultry Journal, and places the order during the month or months in which the ad is inserted in our columns and notifies us of the fraudulent misrepresentation of the advertiser, giving full particulars, as soon as it occurs.

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AMERICAN POULTRY JOURNAL is the oldest poultry paper in America. It has a national and world-wide reputation. The best writers on poultry matters contribute to its columns. It receives the patronage and endorsement of the foremost representative breeders of standard poultry and manufacturers of poultry appliances in the country.



YOUR SUCCESS with poultry, or in any calling, depends largely upon yourself. Your success will be in proportion to the amount of study and intelligent observation you give to your subject, your application to the work and your concentration of your ability and skill in the perfection of that work. You may profit from the experience of

others, but the chances are that you WILL PAY FOR YOUR OWN EXPERIENCE because you, like others, will learn your lessons chiefly thru personal experience.

It takes study, thought, experience, skill and hard work to make a success in breeding Standardbred poultry. None of our breeds and varieties are so well fixed in type and quality that one can make a success of breeding them except thru close application of these requisites. You can buy the best mated breeding pen ever produced and the best and highest priced hatching eggs, but unless you put study, thought, experience, skill and hard work into the care and management of the breeders and of the growing chicks, your flock in a short time will degenerate into a lot of culls and mongrels.

When you buy high-class stock or eggs for hatching you do not buy the specialist's experience and skill. You have a great deal to learn before you can become a successful breeder. Intelligence, experience and skill in handling the stock is absolutely necessary in order to make a success with it. The sooner you get that thoroly into your system the sooner you will be able to get started right. You cannot expect to learn in a few short seasons what it has taken a specialist almost a lifetime to learn, but you can, by study, application and hard work,

profit immensely by the experience and knowledge of that specialist, his teachings and those of others working along similar lines. Simply buying the best stock or eggs is not alone sufficient to get you started right, your success depends upon yourself,—upon your own individual effort.

In February, learning of some Standardbred stock for sale, we visited the customer of a fancier friend of ours. We know that the fancier has stock of splendid quality and that he sells good value in stock and eggs. His flocks are line bred. He wins his share of the blue ribbons at the leading shows. In his variety he has as good Standardbred quality as we know of in the East. Now this customer of his is a young man with very limited knowledge of poultry and ignorant of the requisites of breeding and growing Standardbred poultry. He is a hard enough worker, but he has not had sufficient experience to profit by it, he has not studied his subject sufficiently,—in short, he is just the average type of young man interested in poultry—a fondness for fancy fowls, but with everything to learn. Three or four years ago he bought hatching eggs of the fancier at \$5 per sitting and he has been a "good customer" for hatching eggs ever since. Yet he is still a "new beginner" and not a bit further advanced than he was before he bought his first lot of eggs. We looked thru his flock and we were unable to find a bird that we were willing to buy and not a single specimen did we see that was worth over 16 cents a pound.

The birds showed unmistakably that they had been bred from good parent stock, certain ineffaceable characteristics gave evidence that here was good stock gone wrong, even if we had not had per-

sonal knowledge that the parent stock in the fancier's yards was all right. Yet THESE BIRDS WERE RUINED IN THE GROWING.

Nearly every specimen in this "new beginner's" flock was undersized, most of them had crooked breasts or some other deformity. The birds were not sick and quality showed in their eyes, but their bodies and plumage gave unimpeachable evidence of malnutrition, crowding, poor management and general unfitness during the growing period. Most of them had scaly legs. The plumage was more or less off in color and such sheen as there was on the surface was broken and mixed. A pedigree stud book might give these birds a clean record of blood lines, for they are as pure in blood as any stock in the fancier's yards, yet these defective specimens have been ruined in the growing and are worthless as breeding stock.

This "new beginner" has a Standard of Perfection, but it does not tell him anything about breeding his variety or how to grow chicks so that they will develop properly. He is a hard working young man and he has spent a good many hard earned dollars to get a start with Standardbred poultry, but he did not know what to do with the stock when he obtained it, has not learned how to grow chicks properly and no one, until now, has ever explained to him the importance of growing chicks right. He, with many others like him, expected to buy ready-made quality when he bought eggs at \$5 per thirteen. In his ignorance he did not know that such quality as might be found in those hatching eggs MUST BE DEVELOPED by the person who hatched the eggs and grew the chickens. For the past few years he has been spending his money, groping in the dark and growing only nondescript stock from high-quality fancy-bred eggs. We hope that this editorial will open the eyes of other "new beginners" and cause them to think, study, and work for success.



CAN YOU SPROUT the oats you buy for poultry feeding? If the oats will not sprout, it is a pretty good reason for refusing to buy more of the same sort. Put the oats to the sprouting test.

During the past few months we have had a good many complaints about feed oats that would not sprout. We believe that, in most cases, such oats have

been adulterated by the sulphur bleaching process.

A large proportion of last season's oat crop, owing to unusual weather conditions, suffered damage thru weather-stain or soil-stain. Some were of decidedly inferior quality and some damaged by mould or fermentation. It has been stated that because of the wet season the average moisture content of oats and barley was abnormally high. However, it is probable that this statement about moisture content has been made use of to endeavor to explain actual adulteration of oats thru added water in "processed" oats, which plumped the grain and added to the weight.

Grains which have been treated with sulphur fumes in order to bleach them, do not sprout because the bleaching process has very seriously impaired or destroyed their germinating properties.

It is claimed that the bleaching process is resorted to for the purpose of improving the appearance of grain which is weather-stained but the quality in other respects uninjured. It has not yet been shown

positively whether or not such sulphur-bleached grain is injurious to animals.

Investigations by the United States Department of Agriculture show that "the bleaching of oats which are mouldy, partly fermented, or otherwise damaged, serves to conceal damage or inferiority. Damaged oats and oats of inferior quality which have been bleached or otherwise treated so as to make them resemble those of higher grade or quality, in the opinion of the department, are adulterated within the meaning of the Federal Food and Drugs Act. It is uncontroverted that moisture is added to oats in the process of bleaching with sulphur dioxide. Oats which contain added moisture, in the opinion of the department, are also adulterated. The shipment in interstate commerce of oats which are adulterated on account of either treatment whereby damage or inferiority is concealed or by the presence of added water is prohibited by the act."

An export shipment of oats has been reported as condemned because of added water, which adulteration gave the oats a plump and full appearance and added to their weight, but the oats spoiled quickly and were found unfit for feed purposes.

Good sound oats are valuable food for chicks and fowls of all ages. Damaged oats are unfit for poultry feeding. It is quite probable that bleached oats will be found to be injurious. Insist on your dealer delivering good sound wholesome feed oats that are naturally plump and heavy. Test them by sprouting a sample. Do not accept bleached oats or those which show any trace of mould or mustiness.



AFTER READING "An Open Letter to Poultry Journal Editors," including a report of preliminary meetings of the American Poultry Association standing committee on Standards, an outline of what the forthcoming breed standards will contain, and the urgent general call for help in the form of suggestions and valuable data, by Grant M. Curtis, one cannot help wondering if history is about to repeat itself. Mr. Curtis is once more in control of the work of preparing standard matter and also of the collection of valuable data for the new breed standards about to be made and published.

It will be recalled that in 1903 a lengthy and bitter controversy was started by the action of Mr. Curtis, who published in his magazine a detailed and verbatim report of the proceedings of the Standard revision committee and also a practically complete word for word report of the proposed changes to be made in the Standard of 1905. Also it has been believed that thru his intimate connection with Standard making, either in person or thru employees, he made use of much of the information so obtained for the purpose of preparing his own breed books and bringing them up to date with, or in advance of, the then forthcoming Standard of 1910. In the case of the publication of proposed Standard changes in 1903, quite a number of members held the opinion that he betrayed the implied trust imposed upon him by the association when the work was intrusted to him. Some claimed that a vote was taken that this matter should not be published in the press and some held to a contrary view. The Editor of the *American Fancier* in July, 1903, characterized Mr. Curtis' action as "a breach of faith and a violation of journalistic courtesy. It is both unwarranted and un-

principled." It was also held that Mr. Curtis had invalidated the copyright of the forthcoming standard by making the actual wording of changes "public property."

We do not intend to review the details of this 1903 controversy, but it was bitter and wordy and not at all helpful to the morale of the American Poultry Association. The official records, then as now, were edited and expurgated until it is difficult to arrive at the whole truth by reference to the records. It is a matter of record that Mr. Curtis tendered one of his several resignations during the high tide of this controversy, but did not actually cease to be a member of this association. Possibly if Messrs. Drevensdt, Hewes, Purvis Wyckoff and others had been in possession of verbatim stenographic records of the meetings, history might have been written differently, but we believe that in those days it was quite a brilliant stunt to make things a matter of record and everybody did not have the same facilities. However, the point stands out clearly that Mr. Curtis did print the proceedings and the exact wording of the proposed changes, when others looked upon the act as a breach of trust and it was believed that the copyright had been

invalidated by this act. Of this latter Mr. Curtis in November, 1903, published the following opinion, secured from his attorneys, which bears on the subject:

"Now it will undoubtedly transpire that when the changes that your association proposes to make in the American Standard of Perfection are presented at the meeting for consideration some of the proposed changes will be amended and others will be added. The amendments that will be made at the meeting and the additions that will then be made to these proposed changes will constitute new, original subject matter which, when embodied in the new edition of the American Standard of Perfection, will support a new copyright. Such new copyright will legally protect all those parts of the American Standard of Perfection that were in the earlier edition and those changes and additions which were not published in the poultry journals or otherwise. We believe that the new copyright will in effect protect even those parts that have been published, and so have become public property, for no one can use intelligibly those parts that are public property without the other parts of the book. The parts that have been published and so have become public property are valueless, in fact, many of them are meaningless, except in connection with other parts of the book. Besides, it would be impossible for anyone to attempt to pick out from the new edition of your book those parts that were public property, without carefully culling them out from the others with the numbers of the Reliable Poultry Journal before him. It is hardly probable that any one would undertake to do that."—From Legal Opinion of Messrs. Osgood & Davis, patent, trade-mark and copyright attorneys, Rochester,

N. Y., as submitted by editor of Reliable Poultry Journal at the Indianapolis meeting.

The above was published under the caption, "Did Not Invalidate Copyright," and we presume that this statement was swallowed by association members. As a matter of fact the attorneys did not say that this making "public property" of standard matter did not invalidate the copyright. Their "opinion" shows that such publication did invalidate copyright on such matters as was made public property—and there was a lot of it—also it is a comparatively easy matter to compare the magazines with the Standard as published at that time and pick out the matter so made public. Because of this and other matters, we believe that if any one cared to make a test case of it and to push the matter, the association would have considerable difficulty in making its copyright hold in court. Altho we doubt if any one would consider it worth while to make such a test case.

This ancient history, however,—and we refer the interested reader to the 1903-1904 files of the several poultry journals for more complete data—should make the association a bit more wary concerning the matter which it is proposed to gather for the forthcoming breed standards and any standard revision which may be in progress. It should clearly understand whether or not such material is to be made public in the poultry press, and if it is to be so published, then all of the poultry journals should receive such data in due season for publication at the same stated time. Personally, we believe it would be unwise

RED SUSSEX EGGS

that can be produced. Last year's egg customers were leading winners at the largest shows of the United States and Canada. Mr. E. O. Comforth, Slatersville, R. I., writes: "Won 1st, 2nd pullet, and 1st cockerel, Boston, January, 1916. I don't know who could have started me better." Send for mating list, giving full details about this great breed and detailed description of breeding pens.

F. L. PLATT, Specialty Breeder and Judge, SWANTON, O.

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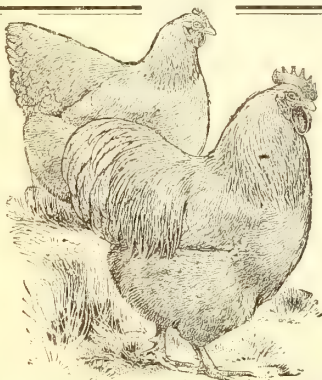
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Buff Orpington Specialist
and Judge

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Cock, 1-2-3. Pullets, 1-2.
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to publish such matter in the press if it is intended to be used in the association books.

The general call for help in form of



Black Orpington cock of exceptionally fine type and color, imported direct from Australia by the Quincy Poultry Farms, A 2700 Maine St., Quincy, Ill.

suggestions and valuable data for the new breed standards is certain to bring out a generous response from fanciers and breeders. There will be a very considerable collection of material from which to make "good copy," but which

matter is the property of the American Poultry Association. It would be pleasing to have Mr. Curtis' assurance that he does not intend this time to "scoop" the rest of the press by making personal use of this collected data in his magazines or poultry books.

From the outline of the proposed breed books it would appear that to contain, even in brief, what the outline suggests, these breed books will each equal or eclipse the present "main" Standard in size. Also it is certain that there will be a very considerable collection of data, valuable and otherwise, that cannot possibly be used in the breed books or in the "main" Standard, in the light of past events, the American Poultry Association should know what is to become of this and to receive some definite assurance that the association property will not be diverted to private enterprise.

Will history repeat? Only one man can answer at the present time.

Good Business.

WE HAVE very little use for the "knocker," who is always knocking his competitors in an effort to boost his own business, and almost everybody has no use at all for a "squealer," the man who tries to get the best of the other fellow and then "squeals," or "cries baby," because things did not happen to turn out in his favor.

There is altogether too much "knocking" of competitors in all branches of the poultry business. We hear it almost everywhere, and, frankly, we don't like it. It seems to be high time for folks to get together, work for better harmony and to do more "team work" for the good of the whole industry and all concerned. We have no use at all for the man who wants and tries to "hog it all."

If a man is "not on the level," folks will find it out after a while,—they will quit him and, if he is let alone and not

Smith's White Leghorns

Another Great Win! My strain made the greatest winning at the Greater Chicago Show, January, 1916, of any exhibitor in the class. Won 1, 2, 3, 4, 5 cockerel; 1 young pen; 2 old pen; 2, 5 cock; 2, 3, 4 hen; 2, 4, 5 pullet; best display; etc. This great win, together with my big win at the Chicago Coliseum Show, December, 1915, and at the World's Fair at San Francisco, November, 1915, proves the quality of my strain. My winnings for the season were the most consistent of *any* White Leghorn breeder *anywhere!* Grandest matings in the country for 1916—matings that will produce *for you* and for me *real quality!* Let me prove it. Catalog telling all about my Leghorns sent free. Eugene Smith, 317 Galena Boulevard, Aurora, Illinois

A. A. CARVER'S 1916 Mating List R. I. Reds and Sussex OUT

Contains the greatest list of winners in the history of Carver's Red Farm. Why not buy this season of the man who mates and grows his own winners? Our last season's egg customers have won in the strongest competition.

Rhode Island REDS

Carver's Queen Quality Strain wins at Chicago Coliseum this Season

1st S. C. R. I. Red Young Pen, 2nd S. C. R. I. Red Old Pen; also won Championship Cup for best Reds in Ohio, 1912; also the two silver tea sets for best display and best cockerel, Cleveland, 1912. Winner of 100 ribbons, and customers won in 30 states in 1914, 50 ribbons, including 27 first prizes at America's largest shows, 1915.

Caesar The Great also won first at N. Y. State Fair, defeating over 50 cocks this season. All above winners grown from our own matings. Our last season's egg customers also report heavy winnings.

We pride ourselves on our many re-orders from old customers.



Undeclared Champion, CAESAR THE GREAT Defeated 50 Cocks this Season

SUSSEX SPECKLED AND RED SUSSEX

Importers from England's Best Sussex Breeder and we now have on our farms, direct from England, the Great International Champion, KING, First at Crystal Palace, London.

Our Winnings: At National Sussex Meet, Chicago Coliseum, in tremendous competition—First Young Pen Red Sussex, and 15 Firsts in Sussex alone at the three big fall shows. Great Forest City Fair, Red Sussex, four firsts; Great Allentown Fair, Red and Speckled Sussex, four firsts; Ohio State Fair, Red and Speckled Sussex, seven firsts.

Write Us Before Buying Eggs or Stock

Our Sussex customers won at Madison Square Garden, Buffalo, and other shows too numerous to mention. Will it not pay you to buy of one whose customers win as well as himself?

A. A. CARVER, Specialty Breeder, Lock Box 100, SEVILLE, OHIO

"Lady Beautiful" Barred Plymouth Rocks

Again Win First Hen at the Madison Square Garden Show, Dec. 31, 1915, to Jan. 5, 1916—making a record seldom equaled by any exhibitor at this world-renowned poultry exhibition. During three years showing at Madison Square Garden, Philadelphia, Pa., Hagerstown, Md., Williamsport, Pa., and York, Pa.—in the strongest of competition—"Lady Beautiful" Strain Has Never Lost a First Prize on Hens.

PULLET LINE ONLY

MADISON SQUARE GARDEN

1912—1st Hen; 2nd Pullet; Special for Best Shape Female.
1913—1st and 5th Hen; 2nd and 3rd Pullet.

Champion Female.

1916—1st and 5th Hen.

Six Championship Female Sweepstakes at Madison Sq. Gard., Philadelphia, Hagerstown, Md., and Williamsport, Pa., during the past three years—

C. N. MYERS

PHILADELPHIA, PA.

1913—1st, 3rd, 4th, 5th and 6th Hens; 1st, 2nd, 5th and 6th Pullet; 1st, 2nd, 4th and 5th P. B. Cockerel; 1st Pen to produce exhibition Pullets.
1914—1st, 2nd, 3rd, 5th and 7th Hens; Pullets, 1st, 4th and 5th; P. B. Cockerels, 1st and 4th.
1915—1st and 5th Hen; 2nd and 3rd Pullet; 1st, 2nd and 5th P. B. Males. And Many Specials.

Box E

MATING LIST NOW READY

HAGERSTOWN, MD.

1913—1st, 3rd and 5th Hen; 2nd and 4th Pullet; 3rd and 4th P. B. Male.
1914—1st and 3rd Hen; 3rd and 5th Pullet.
1915—1st, 2nd and 3rd Hens; 1st and 2nd Pullets; 1st, 2nd, 3rd and 5th Pullet-bred Males. And Other Specials.

HANOVER, PA.

boosted by "knock advertising," he will drop out of sight eventually. We are always pleased when we get a letter from one of our readers like the following:

Editor American Poultry Journal:—While I am not a regular subscriber to your valued journal, yet I watch the newsstand here and get a copy every month. I read one man's scream about how another breeder stung him on a shipment of birds. I have been interested in poultry all my life and have had a little experience in buying fancy poultry, and I have read a good many leading poultry magazines. It does not seem to me that that "squeal" is just the proper thing. I am going to relate to you a little experience I had this summer with a firm that is advertising in your journal. You will realize that among small poultrymen there is much discussion as to whether they get first-class treatment from the big fellows. Along in the early summer I had correspondence with The Pennsylvania Poultry Farm, Lancaster, Pa., about purchasing a 10-weeks-old White Wyandotte cockerel, and I finally sent them a check and received the cockerel very promptly. To all appearances he was a good specimen and got along famously until about the age he began to crow. I handle my birds every day and noticed about this time that he was beginning to show some dark feathers. To say that I was disappointed would be putting it mildly. I sat down to the typewriter and wrote the firm and asked them if they would advise my using the bird in my yards. At no place in the letter did I mention the fact that I thought I should have another bird, but simply put it up to them to say whether or not, in their judgment, I should use the cock-

erel. Almost by return mail I received notice that they were shipping me another bird to take the place of the one which had gone wrong. I received the second cockerel O. K. and \$25 could not buy him today. I am satisfied that had I written them in strong language, etc., that they would have felt that I was trying to work them for another bird and I might have heard nothing from them. I wrote to the firm and offered to return the first cockerel so that they could see for themselves, but evidently my letter satisfied them, for they did not ask for the return of the first bird. Surely no reputable breeder would stake a reputation on a few birds, and, even if a man does get "stung," it would seem to me better to keep the grievance quiet and not use it for personal advertising. M. L. ROBERTS.

Osage, Iowa, Dec. 7, 1915.

There is a manly letter and it shows good business on the part of both buyer and seller. At this time when there is so much "squealing" about "crooks" and "hucksters" we are well pleased to print it. There are some mighty fine, wholesome, honest men in all branches of the poultry business. There are no more frauds in the poultry business than in any other business, and, from our personal experience, we do not believe that among the men who make a profession of poultry breeding there are any more, or even as many, humbugs and "crooks" as there are in most other callings where there is so much opportunity for hon-

est differences of opinion. Poultry culture in all its branches is a pretty clean business, or profession, and it is not fair play to the good men—who are in the great majority—to make so much fuss and howl about the few whose methods are questionable. So much washing of dirty linen in public hurts everybody and the business as a whole.

Even among judges of Standardbred poultry there are wide differences of opinion concerning values and quality in individual specimens. In breeding birds, particularly, you cannot always see the real value, altho the breeder may know that it is there. We know a breeder, who has had more than 30 years experience and is conceded to produce wonderful specimens, and who has been in the blue at many big shows. He told us about a visitor—a poultry judge, if you please—who visited his yards and asked about a certain bird: "Why do you keep that cull?" It so happens that the "cull" is one of the most prized and highly valued breeding males on the place, and birds of his get have won many blues.

Where there is so much difference in actual values and visible values, and where there is so great an opportunity for differences of opinion as to values, it would seem to be the wisest plan for a buyer to attempt to adjust his complaints quietly with the seller. And it certainly is good business for the seller to make every possible effort to satisfy his customer. The head of a certain big railroad company instructs his employees to invariably use courtesy and to always give the passenger the benefit of the doubt. Says he,—“the passenger is always right, don't forget that and you will be of value to the company.” In our own Standard of Perfection it says:



McDannell's White Leghorns

200-Egg Strain Win-Lay-Pay

Before placing your order for Hatching Eggs or Day-Old Chicks, write me. I know I can please you. Wonderful Type and Color. Free range, meaning sturdy, vigorous birds. Order early. Circular free. Satisfaction guaranteed.

M. O. McDANNELL, 1430 24th Ave. A, MOLINE, ILL.



FIRST PRIZE PULLET BOSTON JAN. 1913
BRED AND OWNED BY
JOHN S. MARTIN PORT DOVER, ONT.

FIRST PRIZE COCK At Madison Sq. Garden, 1916

was a Regal White Wyandotte hatched from a setting of eggs sold to Mr. Geo. H. Ward of Manchester, Conn. Here is his letter:

Manchester, Conn., January 15, 1916.

Dear Sir:—

No doubt you will be pleased to learn that I won First Cock Bird at the Madison Square Garden Show and that he was hatched from a setting of Regal Strain eggs that I purchased of you in the spring of 1914, which adds one more to my list of winnings since I began breeding your strain of Wyandottes.

Thanking you for honorable dealings in the past and wishing you future success, I remain,

Yours very truly,

GEO. H. WARD.

I have on record a number of instances where eggs sold by me hatched New York and Boston winners, but most of them I am not at liberty to mention. This goes to show that my customers are treated "on the square" and have an equal chance with myself to produce champions. My 2,000 early hatched chicks are a fine thrifty lot, but it only goes to show that they are bred from strong, vigorous parents. If you are not satisfied with the results you are getting, why not start all over again with pure Regal Strain? I guarantee a satisfactory hatch, no matter where in America they are sent.

Exhibition Matings

Pens 1 to 20 (as they run), \$5 per 15, \$9 per 30, \$12 per 45, \$24 per 100. Eggs from special matings, \$10 per 15, \$18 per 30, \$25 per 45, \$50 per 100.

500 Cocks, Hens, Ckls. and Pullets For Sale

SPECIAL—50 big, vigorous, stay-white Dorcas cockerels, \$10, \$15, \$20 and \$25 each. Dorcas pullets, \$3, \$4 and \$5 each. Utility cockerels, \$3 and \$5 each.

Record Laying Pens

Dorcas Line

Pens 21 to 30 are headed by males bred from females with high records. Some of these male also have exhibition records. The females in the ten pens are composed of yearlings with trap-nest records from 180 to 224, and pullets of the same breeding. From these pens, eggs are \$5 per 15, \$15 per 50, \$27 per 100, \$50 per 200. Utility matings of vigorous surplus stock, \$5 per 50, \$9 per 100, \$17 per 200, \$25 per 300, \$75 per 1,000.

FREE—20-page illustrated catalog and mating list. It gives full description of my matings for 1916. Send one dime for the "Regal White Wyandotte Book." The information it contains will be worth dollars to you.

JOHN S. MARTIN

Box 51

PORT DOVER, CANADA

"Under all disqualifying clauses, the specimen shall have the benefit of the doubt." Why? Because neither fowls nor human judgment are perfect, and we all make mistakes.

If you do business on the Golden Rule plan and always give the customer the benefit of the doubt,—always consider that the customer is usually right (presumably)—and do your best to satisfy each and every complaining customer, you will do good business. No matter what your personal convictions in any given case may be, remember that the complaining customer is right,—right because he isn't satisfied or he doesn't understand,—and it is up to you to so explain or adjust matters with him that he will be satisfied, remain your friend and boost for you.

That is the only way to do modern business and it is good business. Poultrymen, buyers or sellers, are just everyday human beings,—just as good as the average and some of them a whole lot better. Think it over.

Young and Adult Stock.

WE HOPE that all of our readers who are interested in breeding Barred Plymouth Rocks are carefully reading the series on this subject by C. H. Latham, which began in January number, and we urge them to read carefully the article in this issue which compares young and adult specimens. Mr. Latham is a master-breeder, he not only can produce good ones, but he knows *how* and he has a good, sound, scientific knowledge of the breeding of his variety and of the development of the birds themselves.

All of us, with all varieties, are prone to give too much value to young stock, and, in many cases, that is just where we lose out. As a rule, specimens of any breed and variety are really only in the formative stage until they are fully matured,—frequently that means two years old, but never younger than "yearlings." The young bird is not finished in size, shape, type or plumage, and but very seldom can young birds be depended upon to breed good sound type, color, and other characteristics possessing the permanency that is found in stock bred from fully matured, adult specimens.

If the breeding stock is properly handled, not pushed for egg yield, not forced in any way, but merely kept in good condition and given reasonable periods of rest, it will breed much better quality and will be in its breeding prime at three and four years old. Breeding regularly from immature young stock, we venture to say, is a more frequent cause of the "stock running out" and small size, small eggs, lost fertility and lack of stamina, than is simply in-breeding of itself. We have seen good breeding pens that were six and eight years old and they were producing fine quality chicks. However, you cannot keep stock in breeding condition for a number of years, unless you take care of them, avoid too prolific egg production and avoid all forcing.

There are a number of varieties in which you simply do not get worth while chicks unless you are always careful to breed only from birds that are two years old or older.

It would be a good plan to give

more consideration to the characteristics of adult specimens and to breed only from good adult birds, if we are striving for quality or for best values in the show room or along practical and useful lines.

White Orpington Breeders Attention!

JUST as we thought we were about at an end of breed article contests for this season, we received the following letter from Aldrich Poultry Farm, Columbus, Ohio, breeders of quality S. C. White Orpingtons:

Columbus, Ohio.
Editor American Poultry Journal:
For the best articles submitted to American Poultry Journal on the subject of White Orpingtons as an exhibition fowl, combining high laying records with show quality, we offer three prizes:

For the best article we will give as a first prize our First Buffalo Cockerel, now heading our pen 6, the bird to be delivered July 1st, 1916. (Photo of this bird appeared in our January issue, page 131.—Ed.)

For the second best article we will give a second prize of a \$15 sitting of eggs.

For the third best article we will give a third prize of a \$10 sitting of eggs.

American Poultry Journal to be the judge and to print the three winning articles and any others considered worthy. We do this to stimulate interest in S. C. White Orpingtons and for the good it will do all breeders of the variety.

ALDRICH POULTRY FARM.
E. S. Aldrich.

Attention! White Orpington breeders, here is your opportunity to earn a good cockerel and some quality eggs for hatching. Write your articles on one side of the paper only and try to keep them within from 800 to 1,000 words. Let's see how good an Orpington article you can write.

This contest will close May 1st, 1916. The awards will be announced in June issue of AMERICAN POULTRY JOURNAL. We reserve the right to retain all articles submitted and to publish any we consider worthy.

Send all articles marked "White Orpington Contest" to Dr. P. T. Woods, Lock Box 4, Silver Lake, Mass.

Short-Sightedness.

WHEN things are going wrong, it is no time to shut your eyes and ears and say, "It is not so!", or to grumble about the conditions in private. Better get out in the open and work for what you believe right.

All the shouting, vituperation, and intimidating publicity in the world will never make wrong into right. And it is manifestly wrong for any one man, or any small group of men, to try to control and to dictate the business methods of all other men engaged in the same line of business, particularly when such

You Want EGGS

—not only eggs that hatch but eggs that will produce the champion winners; that will conquer your rival—just as the

HALBACH STRAIN

OF

White Plym. Rocks

"The Proven Leaders"

has conquered the idle boasts of other advertisers. Their record at Chicago of every **First** but one, **Every** second but one, and **Every** third but one—against the world—stands unequalled. You want the **very best**. It will not pay you to go elsewhere, but **start right** at headquarters.

They produce eggs in such paying quantities that they are in great demand wherever lots of large brown eggs, laid by hens of the best vigor and vitality, are desired.



King Champion 2d
First Chicago Pen Cockerel



Madam Snow-drop
First Chicago Pullet

My Free Mating List Tells About the Grand Bargains

—the finest ever listed. Don't regret later, but write today.

Eggs from \$3 to \$12 per 15.

Baby Chicks at reasonable prices.

Get the List NOW

H. W. HALBACH

R. R. No. 1, Dept. D, - WATERFORD, WIS.

"personages," who would assume such control, may well be believed to be actuated by selfish interests. To accuse others of "greed of gain" and "greed of good American dollars," when those who are doing the "bawling out" of competitors are actuated by motives which certainly simulate the same kind of "Greed" in a highly hypertrophied condition, is evidence of mental and moral short-sightedness.

Some of the "leaders" in our poultry fraternity today are guilty of this very form of short-sightedness, and they are leading their followers and our great fraternal organization into perilous ways which may cause ruin and degradation. Mental myopia and moral astigmatism are dangerous qualities for a leader—or would-be leader—to rely upon in these days when people—the common people—are beginning to think. It is hardly fitting that any one man,—who is piling up money, made by hook-or-crook garnering of the hard earned dollars of American poultrymen and has rapidly increased his business interests so that he can reap more of such dollars—should assume a position where he attempts to control all associations of poultry keepers and to dictate to all people breeding poultry what they shall breed, what their birds shall be like, and by what names their birds shall be called; with a penalty for disobedience that means public defamation and business ruin.

It is strange that any representative breeders,—specialists or otherwise,—should lend themselves to the imperialistic policies of such a "leader," thru fear of the consequences of disobedience. Such "personages" presumably realize that such a "leader" may—by following his well established precedents—turn at any time and rend them asunder, but tho they may fear—and even put it into secret words—that he can "make or break them"; such fear is not well grounded in fact. A united policy for the good of all poultrymen among such breeders would soon uproot any such condition. It is difficult to see how such

breeder "personages" can be so short-sighted as to imagine that by killing competition and destroying various "unrecognized" types of poultry breeders, or other poultry interests, that they will in any way benefit themselves. It seems strange that they cannot see that by such procedure they are actually striving to put *their own customers* out of business. Such business methods are bound to boomerang sooner or later.



Single Comb R. I. Red cockerel from one of the winning young pens at the Illinois State Show, De Kalb, January, 1916. Owned by Geo. H. Shoenhard, Box 17, Freeport, Ill.

When it comes to "huckstering" and the defrauding of buyers the following illustration, from a letter recently sent us, is suggestive:

"Talk about extravagant claims, look at the full page ad of ————"

"I have a photograph of a very bum specimen that came from there on a \$50 order. I took the photograph myself."

"Now, when some little known, or un-

known, breeder sells a bird from \$2 up to \$6, the customer is not going to get stung very bad, even if he isn't satisfied. But when he pays a breeder \$50 for a bird that could not get a ribbon at a county fair, I call that stinging him."

The man who wrote that letter has been a judge of poultry and a good one. We have quite a bunch of such letters, but it is not our intention to betray the confidence of correspondents.

The tenets of our American Poultry Association, as printed on its letter head, are "Progress, Purity, Protection" and "Our Field: Every Poultry Interest." Are we going to make that broad statement mean something, even approach meaning what it says, or are we going to kill off small poultry breeders and attempt to organize a great poultry trust controlled by a few political ringers? It is time for every thinking poultryman or woman on the American Continent to think deeply in this matter and then to act with the courage of conviction. S. T. Campbell, Mansfield, Ohio, is the present secretary of the American Poultry Association and he is very desirous to hold his job—which is a good quality if it don't run to seeking favor with "bosses." Write him and express your views plainly in this matter—a few words will do—but make him understand just how you feel about an association that should be for "every poultry interest" but is not. But, in writing, make it very plain to him that you do not wish your letter sent to any political boss of the association, but held by him in trust and presented to the full assembly at the annual meeting. *Write today!* Whether you are a member or not *write* to the secretary—for don't forget that the field of the organization is stated to be "every poultry interest."

Rose Comb White Leghorn Contest.

WE ARE pleased to announce that the Rose Comb White Leghorn article contest was a great success. Articles about these "Beauty and Business"

KEELER'S WHITE WYANDOTTES

The Aristocrats of the White Wyandotte World

Have again demonstrated their superiority by winning at Chicago, January, 1916, in a class of 194 White Wyandottes, 1-2-3-4 cockerels, 1-2-4 cocks, 1-5 hens, 1-5 pullets, 1-3 young pens and 2-4 old pens. **Seven specials, including Silver Cup for Grand Championship, \$50.00 Silver Cup for most points on any breed in whole show (3,500 birds); also \$25.00 membership cup.**

The World's Greatest Strain. EGGS! EGGS! EGGS! EGGS!

The pens that will produce 1916-17 winners were mated December 15th, and I am in a position to supply you with eggs from the 16 best matings of White Wyandottes in America. These pens contain my Chicago winners, also the best birds reared the past three years—sons, daughters, brothers and sisters to these winners. They are bred right and mated right and will produce the winners for America's best shows. Send for my 1916 64-page art catalog and mating list (5 red stamps appreciated). Eggs, \$5.00 per 15; \$9.00 per 30; \$14.00 per 50; \$25.00 per 100. Special matings, \$10.00 and \$15.00 per 15.

CHAS. V. KEELER

R. F. D. 11

WINAMAC, INDIANA



First Cock, Chicago, 1916

SUSSEX

Speckled and Red

Campines

Golden and Silver

World's Champions. At the greatest Poultry Show ever held, (Panama International Poultry Show) in competition with the world's best we won

9 Firsts Out of a Possible 18

Each One of Our 44 Birds Entered Won a Ribbon

We can sell you eggs that will produce winners for the next show season and can furnish you breeding stock that represent the best blood lines in the world at very reasonable prices. Mention American Poultry Journal.

GENSEMER BROS., 161 Main St., CRESTON, OHIO

Standardbred fowls were received from Massachusetts, New Hampshire, New York, Ohio, Illinois, Indiana, Nebraska, Oklahoma, Wyoming and Nova Scotia.

The prizes were offered by M. C. Wilson Oil City, Penn., breeder of the "Beauty and Business Strain."

The first prize, a trio of R. C. White Leghorns, for best article, was won by Walter T. Mattinson, Glace Bay, Nova Scotia.

The second prize, a pair of R. C. White Leghorns, for next best article, was won by Lawton B. Quimby, 322 Pleasant St., Laconia, New Hampshire.

Mr. Wilson has been notified of awards and will ship prizes promptly. The winning articles are published in this issue and other articles of merit will be printed later.

"Handwriting on the Wall."

THE following are extracts from letters of prominent poultry breeders, all members in good standing in the American Poultry Association:

"I have been more than pleased at your attitude on the Harrison question. It may be possible that Mr. Harrison exceeded the speed limit a little, but you know and I know that we occasionally run up against customers who are absolutely unreasonable and there are always two sides to the question.

"I am very glad you have gone after the Czar of Poultrydom the way you have and I think there is a very strong feeling growing up that the American Poultry Association should be more democratic than it has been in the past; at least, I feel that way. Do not use my name in this connection, because we poor

breeders are obliged to disguise our feelings for business reasons, but a good many of us feel that way."—Breeder.

"Any editor would be better off to stay at home and keep his own business



The above bird headed first young pen of Speckled Sussex at the Greater Chicago Show, January, 1916; also was first cockerel at the late Detroit Show. Owned by L. C. Brackett, Hopkins, Mich.

going right than overload the American Poultry Association with 'Resolved' and 'Whereas' at Frisco. This resolve business kills the little fellow, but the big gun grins and shakes his head. He knows the editor will give him a five-page write up just as soon as he gets home and about four times a year. The 'reformer' is hot to reform the other fellow, but how about reforming his own business? It needs it, but will he stand for it?"—Little Fellow.

"You will be interested in 'Weekly News Letter' enclosed, showing that the man who tries to ridicule you has, in his own company been fined \$50 for misrepresentation and misbranding some of their goods. He has been very active in exposing others for offenses that he seems to be equally guilty of. Not only in this case, but in his articles or write-ups for advertisers he has gone the limit along the same line. I have written him several times, showing where he had made claims for winnings at shows where I had won and that the parties who claimed to have won there had no birds at the show stated. He not only refused to make my corrections, but wrote an article himself repeating the false claims. I asked him in simple justice to look up the winnings and see for himself that the claims were false, but received an insulting reply only."—Fancier.

"Mighty glad you have dipped into the

Leitner's S. C. Buff Leghorns

Have made another great win at Rochester, N. Y., February, 1916, on two birds, winning 2nd cock, 3rd hen. At Chicago, 1915, 1st pullet, 2nd cockerel. My winnings for the season were the most consistent of any Buff Leghorn breeder anywhere. Grandest matings in the country for 1916—matings that will produce real quality. Let me prove it. Circular telling about my Leghorns sent free. C. H. LEITNER, R. F. D. No. 4, Box 8, Elgin, Ill.



William Cook & Sons

Originators of all the Orpingtons

Box A SCOTCH PLAINS NEW JERSEY (Established 1873)

EVENTUALLY if wanting the Best Orpingtons, any variety, you will send to their Originators. Why not now, and avoid loss and disappointment. Our guarantee of satisfaction is backed by a reputation of 43 year's standing; this means something to you.

Lower prices and better quality than anyone else. How do we do it? By breeding thousands of birds from the best in the world, and having made the Orpingtons, we KNOW how to mate for the best results. This knowledge saves you money. Advice free.

We have won over fifteen thousand first prizes. Our birds are recognized as the finest layers in the world.

Send for our new 1916 Illustrated Catalog with history of the Orpingtons and hints on poultry keeping.

EGGS from our winners and the finest Orpingtons in the world \$20 a setting; from fine stock at \$10 and \$5 a setting. Ornamental land and water fowl for sale.

Cook's Roup and Worm powder and Laying and Condition powder, at \$1 a box, are recognized as the best.

Write for Our Free Catalog

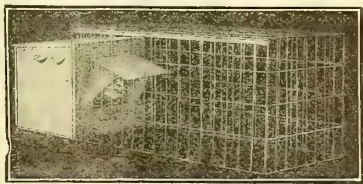
of these coops and nests and many other articles.

You will save money and get the very best. We make exhibition coops, trap nests, setting coops, brood coops, colony coops, portable henneries, portable fences, fireless brooders, fattening crates, runways, etc. Mention American Poultry Journal. Address,

Niemann Bros. Manufacturing Co.

Box 677

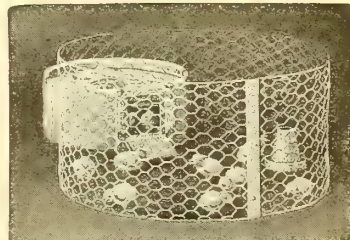
Mt. Olive, Illinois



Model Setting Coop



Economy Trap Nest



Model Fireless Hover with Yard
Price \$1.25, half doz. \$6.90

bald headed eagle of the American Poultry Association," he needs ripping up the back to the limit."—Specialist.

"I as well as many other poultry men and women, greatly appreciated your open letter to the American Poultry Association. You hit the nail on the head in everything you said."—Poultry Judge.

"The time is ripe for a change of officers in the American Poultry Association. Your open letter was read with interest and pleasure."—Veteran Fancier.

"I have your open letter to American Poultry Association and wish to congratulate you on the punch you have injected into same. You have hit the nail on the head. I am pleased to see you take a hand in the game in this matter."—American Poultry Association Judge.

These are only a few samples, but we have many more, and some of them altogether "too hot" to print. We are glad to get these letters and we assure our correspondents that we have no intention of exposing them to slanderous attack by making known the names of the writers of these letters.

Rat Hunting

RATS do a great deal of damage on the poultry plant. They eat and destroy large quantities of grain, eat eggs, steal and kill chickens and breed disease. It is difficult to make any poultry house really rat-proof and it is next to impossible to keep rats out of earth floor houses. They will breed under wood and cement floors and the price of freedom from these pests is eternal vigilance.

We are particularly pestered with these varmints, for we live on shore of

lake and pond and a large part of our place is woodland; so we have common house rats, water rats and wood rats of many varieties to contend with. Poison and rat virus have never proved satisfactory with us. Where we have used these means of fighting rats the results have been negative. We cannot use poison around the poultry houses for fear of poisoning valuable fowls.

Traps of various sorts are effective for a time, but all traps must be regu-

larly scalded and smoked or the rats will not go near them after the first catch or two. Fourteen and 16-quart galvanized iron pails about half full of water will catch a good many of these pests, in season when the water does not freeze. The best bait we have found for traps is fish, clams, oysters and lobsters. This bait is tied in cheese cloth before using in trap, as it makes sure of the trap being sprung when the soft bait is used.

Several times a year we organize a rat hunt and this is the most effective means of keeping down the pests. We have a cat that is a very good ratter and an Airedale terrier "Shag" that is a wonder at catching rodents.

Right now is a good season to start ratting. Well and thoroly done it will prove rather good sport and it is certainly effective. We started a big hunt in the middle of March while the ground was still frozen. With all holes in the house plugged, the earth floors were dug up around and under the sills, and the dog "Shag" did the rest. Our first "bag" was three females and one enormous male in a small earth floor coop. Then we piled them up thick and fast. Board floor houses were raised up to admit cat or dog, all small coops moved and rat holes in soil dug into. Any holes not possible to open up were smoked out with blasting powder—exploded loose in the hole on top of a bit of news paper and the hole plugged to confine the fumes. It took all the man's spare time for three days to clean things up, but we sure got a big bunch of rats,—got them in time to break up their breeding season for quite a while.

Most of the pests killed were burned,



Fourth S. C. White Leghorn hen at Boston, 1916. Bred and owned by Willow Tree Poultry Farm, H. P. McKean, Jr., Beverly Farms, Mass.

LATHAM'S BEAUTY AND UTILITY STRAIN Barred Rocks WIN

The record to date over 320 prizes, including 42 first prizes. All these winning birds were bred, raised and exhibited by the originator and owner of this strain. Heading my matings for 1916 are 13 of the finest pullet-bred males I ever had in my yards, including five first and second prize birds at the Palace and Boston shows of this year. All these males are either winners or bred from winners. Females in the matings are the cream of 30 years study and successful breeding of this line of Barred Plymouth Rocks. This strain is the richest blood line of high winning females at America's greatest show that are living today.

Eggs for Hatching, \$10 per Sitting

Better value in eggs for hatching cannot be bought anywhere at any price. Every egg I sell for hatching I guarantee shall come from the females that are in these matings, being the same matings I shall breed for myself.

The BEAUTY and UTILITY STRAIN is bred exclusively for production of Exhibition Females.

C. H. LATHAM Box 145 LANCASTER, MASS.



2nd Prize Pullet Bred Cockerel, Palace Show, 1915

A. C. WILLIAMS Ravenna, Ohio

BREEDER OF

Speckled Sussex and Buff Orpingtons

SPECKLED SUSSEX

At the National Meeting and Club Show, Chicago, December, 1915, we won 1st Cock, 1st and 4th Hens, 4th Cockerel, 5th Pullet, 2d Old Pen, 3d Young Pen. At Cleveland, January, 1916, we won 1st and 2d Young Pens, 1st Old Pen, 1st and 2d Hens, 1st Cockerel, 1st, 2d and 5th Pullets.

BUFF ORPINGTONS

At the National Meeting and Club Show, December, 1915, we won eleven (11) prizes out of fifteen entries. At Cleveland, January, 1916, we won 1st, 3d and 4th Young Pens, 1st and 3d Old Pens, 2d, 3d and 5th on Cocks, 3d Hen, 1st, 2d and 5th on Cockerels; 4th and 5th on Pullets. Our first cockerel, "King Edward," won A. P. A. Medal as best cockerel in entire show, all breeds competing. Stock of Both Varieties For Sale. Mated Trios and Pens a Specialty. Eggs in Season. Write Me Your Wants.



but, to satisfy him, "Shag" was permitted to bury a few victims in cold storage in the snow out in the woods. It pleases him and does no harm, for some wild inhabitant of the woods will have carried off these "stored" rats before "Shag" has an opportunity to recall his "buried treasure." Have a rat hunt. It pays and it is rather good fun, with plenty of "thrillers" when the scrap is hot at close quarters.

DR. WOODS' NOTES AND COMMENT.

APRIL.

A gush of bird-song, a patter of dew,
A cloud, and a rainbow's warning,
Suddenly sunshine and perfect blue—
An April day in the morning.

—Spofford.

April chickens, in all American, English, Asiatic, French and other large varieties, are among the most desirable if you want best growth and productiveness. Hatch and grow all you can care for properly.

Remember that, no matter how good the parent stock may be, when you buy hatching eggs it is up to you to properly incubate the eggs and to properly rear the chickens; if you do not develop the young birds in the right way you are liable to have mostly culls as a result of your season's work. Faulty incubation and brooding, lack of care, poor food, not enough food, an insufficient variety of wholesome food, crowding, vermin, lack of well proportioned shade and sunshine, lack of greens, lack of outdoor exercise, lack of fresh air in sleeping quarters, all tend toward spoiling your crop of chicks and making culls

out of what would otherwise be good quality, well developed stock. Do not be in too great a hurry to blame the breeder who sold you the eggs or chicks, see if the greater part of the fault is nearer home.

Badly managed, poorly nourished, growing chickens will show off-colored feathers, poor type, stunting of body, deformities, and other evidences of malnutrition and lack of good care that make culls of what would otherwise be good specimens. It is possible that one dollar's worth of care and food will



Single Comb Brown Leghorn pullet of good type and color. Owned by Quincy Poultry Farms, A 2700 Maine St., Quincy, Ill.

grow "just chicken" to maturity, but if you want to properly grow to maturity a real quality specimen it is likely to cost you from \$2 to \$5. Few animals show greater response to careful management and good feeding than poultry. Also few animals degenerate more rapidly under bad management than poultry.

Food plays an important part in the development of chicks. Poor or cheap foods yield poor and cheap results. Stale foods are likely to be mouldy, musty or otherwise spoiled. Even if not actually spoiled, stale food is inferior in quality to fresh food. Freshly ground or cracked grain, made from sound grains, is in every way superior to ground or cracked grain that has been stored for a long time after milling. Also there is greater opportunity for use of inferior quality or damaged grain, and for adulteration, in ground and cracked products. Wherever possible buy of a responsible miller who will deliver fresh ground goods from sound well-seasoned grains. A hand or power grinding mill will make it possible to have fresh ground chick food at home, but be sure that the grain is sound, sweet and wholesome.

Cracked corn at this season of the year does not keep sweet and wholesome for very long and loses much of its feeding value thru keeping, even tho it should not spoil quickly. If it does not begin to heat and spoil on long keeping, you can figure that it has been treated to preserve it, and possibly to disguise inferior quality. Spoiled or damaged corn is dangerous and starts

Young's Strain s.c.w. Leghorns

I Have No Other Breeds

Another Phenomenal Win at Madison Square Garden just closed



Cocks—1-2-3-5

Cockerels—1-2-3

Hens—1-2-3

Pullets—2-4-5

Pens—1-2

The one Strain that has made good. This is the fifteenth consecutive year that I have won best display and from three to five first prizes at the world's supreme show, Madison Sq. Garden, New York. My strain is acknowledged thruout the world as being the standard for all the Leghorns of all America. They have been line bred for heavy egg production alone, since 1853, and the show birds have simply been chosen from the record layers, a point worth noting.

I am booking orders for eggs for hatching from 65 of the grandest pens that I have ever mated.

Why not come to headquarters and get the best.

Mating List FREE.

Box E-12

D. W. YOUNG, Monroe, N. Y.

BLUM'S PURE BRED Day-Old CHICKS

We have five varieties all hatched in Candee Mammoth machines. We have 10,000 eggs per hatch. Our equipment is so automatically arranged that we can sell you the chicks at the following low prices. Single Comb White Leghorns and Barred Plymouth Rocks our Specialty.



	Per 25	Per 50	Per 100
Barred Ply. Rocks...	\$3.00	\$5.50	\$11.00
S. C. W. Leghorns...	2.75	5.00	10.00
S. C. Brown Leghorns	2.50	5.00	10.00
Broiler Chicks.....	2.00	4.00	8.00
R. C. Brown Leghorns	2.50	5.00	10.00

Chicks all hatched from the very best free range utility stock. Satisfaction guaranteed. Will also have a few Barred Rocks and S. C. White Leghorn chicks to offer from fine exhibition matings. Also have eggs for hatching and a full line of colony brooders. Will be ready to ship chicks after March 6th. Get your orders booked now. Catalog and price list free. Mention A. P. J.

FRANK BLUM

Dept. A Rural Route No. 2
NEW WASHINGTON, O.

S. C. WHITE LEGHORNS

AMERICAN TYPE

The winter laying strain of American bred hens. Trap-nested for the past fifteen years. Fifteen pullets in three months, from October 1st to December 31st, laid 861 eggs, or an average of better than 57 eggs during the winter months. We offer you from these unbeatable winter layers 50,000 Hatching Eggs and Baby Chicks, the latter hatched in our mammoth incubator of 30,000-egg capacity. Safe delivery guaranteed.

Eggs from \$6.50 to \$18.00 per 100.

Chicks from \$12.00 to \$30.00 per 100.

Ten weeks old Pullets from 65c to \$1.00 each.

Our Free Catalog
will tell you more
about them.

Lily White Poultry Farm, J. F. Best, Mgr., Saginaw, Mich.



2nd Cock, 1st Cockerel and 1st Pen Cockerel at
Madison Square Garden, January, 1913

BLACK LANGSHANS

We won at Madison Square Garden, N. Y., December 31st, 1913, to January 5th, 1916, 1st, 2nd and 5th on cocks; 1st, 3rd, 4th and 5th on hens; 1st, 2nd and 4th on cockerels; 2nd and 4th on pullets; 1st and 2nd pens. Also, at Indianapolis, January 10th to 15th, 1916, (The National Langshan Club Show), with another and different string of birds, I won five firsts, one second, one third and a lot of specials.

It Will Pay You to Get My Strain.

My customers are winning with my strain everywhere, and I will continue to take care of you. Was never better prepared in numbers and quality than right now. They will give you eggs, prizes and satisfaction. Eggs from choicest New York winners, also from utility flocks. Mating list and catalog free. Satisfaction always.

M. S. BARKER, R. F. D. 1, Throntown, Ind



White Wyandotte Winners

We Have the Real Winners at Kansas
City, Mo., St. Louis, and Quincy, Ill.

The down-to-date Wyandotte type, and pure white plumage. Grand pens mated for egg trade. Stock for sale. All infertile eggs replaced free. Note type of bird shown in picture in this ad. Every bird guaranteed and shipped on approval. Write today.

ROY KEMPER

CLARENCE, MO.

BUFF ORPINGTONS - CHICAGO WINNERS

My birds have made wonderful wins at Chicago, Elgin and other Mid-West shows. They have that wonderful, soft, even shade of buff, and are true Orpingtons in every way. Wonderful pens now mated. Eggs and stock for sale. Have hundreds of satisfied customers everywhere. Write today.

H. SCHERRUBLE, ELGIN, ILL.

White Wyandottes - Regal Strain

Also Young and McKinzie Australian Strains White Leghorns.

GEO. P. SANFORD

State Road

WHEATON, ILL.

digestive troubles which result in losses of many chickens every season. Be sure that all of the food given to your growing stock is sweet and wholesome. Old pigeons apparently eat without injury food that will kill the squabs in the nest. Successful pigeon growers found out long ago that the best feeding grain is the cheapest in the end and they feed their squab-breeders on sound, sweet, wholesome old grain. Poultry keepers would do well to follow their example.

* * *

Keep the growing chickens clean and comfortable. Feed them well on wholesome food and a variety of it. Do not crowd them. See that their quarters are well sunned and aired daily. Give them an outdoor run and as soon as possible a grass run. Keep them free from lice and mites. Don't coddle them. Provide a sheltered run and teach them to run to the weather, providing reasonable shelter from high winds and sudden storms.

* * *

A California professor has been making a study of "scientific feeding and the effects of different foods upon the moral character." He claims that feeding upon beef "promotes savagery," while "if one eats chicken exclusively, it brings out the finest qualities of the person's higher nature." We have long believed that people generally should eat more poultry and eggs—it is good for the business—and now we have this "scientific" indorsement of the unusual value and desirability of chicken as an article of diet. Maybe if we can only get the "civilized" races to consume more poultry and poultry products and less beef, we may arrive at peace and the ultimate prevention of war for all time. Who knows?

* * *

In the official Quarterly Bulletin of the American Poultry Association for January, we find above a lengthy resolution the following caption: "Resolution Adopted by Grant M. Curtis On Request of E. B. Thompson, Amenia, N. Y." It was kind of G. M. C., "so to speak," to adopt this matter "in substance." Also, "so it would appear," this adoption, "as the saying is," would "in substance" confirm, "so it would seem," the contention of R. G. Bailey that the San Francisco Convention was "composed of 90 per cent Grant M. Curtis and 10 per cent of the balance of the United States and Canada."

* * *

If any reader is at a loss to understand where we got so many of the "as it would appear" quoted above, we are pleased to inform him that they are quoted freely from a contemporary which has, "so it would seem," adopted a new form of evasive journalism, "so to speak," which appears to be designed for the purpose of providing holes thru which to crawl out of law suits. At least, "so it would seem in substance."

* * *

I. K. Felch, who has always advocated a Standard true to Nature, says: "We have outgrown the belief that standards are for the sole use of the judges in our exhibitions; they are and should be the text book for the beginner in poultry culture. We are therefore opposed to that heresy which demands that standards shall be formed and illustrations made otherwise than true likenesses of Nature's best. We hear the expressions used often, 'We want the

standard better than we have seen, for the breeder to breed up to; what nonsense! The Almighty as a rule gives us in the best efforts of Nature the best merit and productive power; what folly to distort this handiwork of the Creator. When we describe each section according to the best Nature has produced, doing this in all sections, we have perfection as a whole. It is true Nature produces individual sections perfect, but perfection as a whole is impossible, for it is written, 'None are perfect, not one.' The chance to produce a specimen to score one hundred points is just one in a million, eight hundred and twenty-eight thousand, eight hundred. Then why augment this difficulty by making standards foreign to Nature in the breeds."

* * *

Apologos of the American Poultry Association's proposed crusade to reform the other fellow's advertising, D. Lincoln Orr, in February R. P. J. says: "While on the advertising question, let me say I am glad something is to be done. Mr. Thompson deserves credit for starting the ball rolling. I would like to ask 'Ed.' what he thinks of the A. P. A.'s advertisement when it says about the Standard—'Judge, mate and breed all domestic chickens?' This advertisement was carried all thru Mr. Thompson's term of office. 'Mating and breeding!' The mote in our own eyes must be gotten out first."

* * *

No doubt reform is needed in the wording of advertising, altho to us it appears that poultry advertisers are among the lesser offenders in the "employment of all forms of exaggeration that are clearly liable either thru inten-

tion or ignorance to mislead, deceive or defraud the inexperienced or unwary." Compared with general advertising, as seen in our daily press and other periodicals, and the majority of all kinds of class advertising, poultry advertisements are fairly clean and free from misrepresentation. Like a good many other hasty and not overwell considered "reform movements" proposed by the A. P. A., this crusade for reform in advertising started out wrong. It was conceived largely in selfish interest. It wanted to reform the other fellow's—the competitor's—advertising. In other words "that fellow claims to have some-



White Wyandotte cock. One of the many prize winners owned and bred by Roy Kemper, Clarence, Mo.

thing better than I have and I think he is getting business I ought to have, make him behave and turn the orders over to me." Any reform so conceived won't work right.

* * *

The best way to accomplish any reform is by setting a good example. Do right yourself before you ask the other fellow to do right. Try to show him, by setting him a good example, that doing right because it is right is the best way to succeed. I believe that I am as loyal a member of the A. P. A. as any man in the association, but I am not blinded by the glory of membership nor any of the wonders the A. P. A. may have been supposed to have accomplished. I am still somewhat in the dark as to what good it does a member to be a member, except that I can see how those who play politics and make use of the association and its funds, or travel at its expense, may get something out of it; else it is difficult to understand why they work so hard to remain a part of the "machine." But certainly anyone with any vision at all can see that if the A. P. A. really desires to work reform in the poultry world, it should first reform itself and clean up its own door yard. Village improvement can be accomplished more quickly by cleaning up and improving the home place, setting the neighbors a good example, which pride compels them to follow; but you can't demand that the neighbor clean up and let your home place go foul. The same is true of our association, let's try to clean up the A. P. A. and remedy evils in its advertising and that of its members before we attempt to go outside and reform the world at large.

Something Entirely New!



My Special plan for 1916 in regard to EGGS FOR HATCHING from the world famous ARISTOCRATS. This offer comes as a complete

SURPRISE

It is surely the greatest, most striking and startling offer made by any breeder of Barred Rocks this season. If you want to see and study something absolutely NEW, write today for this SPECIAL PLAN. A postal card will do.

W. D. HOLTERMAN, Fancier, Box A, Ft. Wayne, Ind.

COMING EVENTS CAST THEIR SHADOWS BEFORE

The 8th Annual Exhibition of the
GREAT MID-WEST POULTRY AND PET STOCK ASSOCIATION
will be held in the

Coliseum Building, Chicago
December 13 to 18, 1916

Premium List November 1st

OUR RECORD—Seven of the most successful shows ever held in America.

THEO. HEWES—Secretary Both Exhibitions—**Indianapolis, Indiana**

Auditorium Show, Milwaukee

THE NEW NATIONAL SHOW OF THE NORTH-WEST

January 18 to 23, 1917

Premium List December 20th

One of the best sales shows on the continent.

Register now for list.

Your name on a card will bring it.

Some of the men who are howling the loudest about misleading statements in the advertising of poultry breeders who have little political pull and no association membership, are among our chief offenders in the matter of exaggeration in advertising and misleading statements in their own ads. Let everybody start in to set a good example for his fellow breeders by cleaning up his own door yard first. Start the work honestly and right and we will boost it all we can, but the trickery and buncombe with which this crusade started and the smallness and meanness which has characterized some of the alleged public investigations to date, is disgusting to us.

* * *

Some of the advertisements of the American Standard of Perfection have been toned down a bit, but they are still misleading and calculated to deceive the inexperienced and unwary purchaser. For example:

"The Standard is the only American authority on the required characteristics of all breeds and varieties. You cannot raise pure-bred fowls intelligently without it."—*A. P. A. Bulletin* for January, 1916. Obviously, that statement is false and misleading for the Standard does not cover all breeds and varieties. It is not the only authoritative work on breeds and varieties, and better descriptions and illustrations and information about breeds and varieties are to be found in several works on poultry. Also some of our leading breeders have raised pure-bred fowls without it and the book says nothing whatever about how to mate, breed or raise pure-bred, or any other kind, of fowls.

"The Standard by which all poultry

are mated and judged."—*Poultry Garden and Home Advocate, Canada*, February. Another false and misleading statement for it contains nothing about mating and it does not cover all poultry.

"You cannot breed exhibition fowls without it."—February, 1916, R. P. J. A statement that is not true. The leading breeder of exhibition White Leghorns says he never owned or looked into a Standard until after he had arrived with an international reputation as a successful breeder and exhibitor. Only last year the president of the A. P. A., in his advertising, said of his own birds, "they are the Standard by which all other Barred Rocks are judged," and he was still sending out a circular containing that statement last December, some weeks after introduction of the reform resolution to the Association.

"Don't fail to secure a copy of the New Standard before you attempt to mate your breeding pens. You cannot mate correctly without a copy of this book. It is the recognized American authority on all matters pertaining to breeding and exhibiting poultry."—February, 1916, *A. P. World*. That statement is absolutely untrue. It is deliberately false and misleading and very likely to deceive and defraud the inexperienced and unwary. As we have before stated the Standard tells nothing about how to mate or breed. It most emphatically does not even make a pretense of covering "all matters pertaining to breeding and exhibiting poultry."

We could go on and give many other examples taken from recent advertising for which the A. P. A.—or members of the reform movement are directly re-

sponsible; but what's the use? What is needed first is a wholesome clean up of the association door yard. Also, we reckon, that most of us have a door yard of our own that will stand cleaning up. Never mind what the other fellow and competitor is doing, let's begin at home with our little reform and then try to set the other fellow a good example.

* * *

F. L. Platt, who has become identified with this "purify the other fellow movement," appears to have some misgivings about the leadership of the Standard; he says:

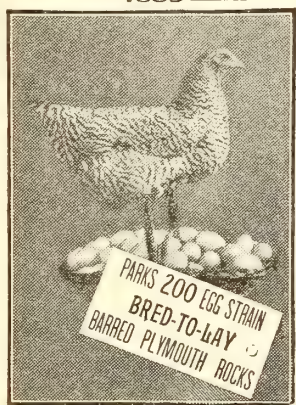
"I cannot bring myself any more to look on the Standard as a Standard of Perfection. Looking at our breeds as evolving creatures of life, I think I understand what is meant when it is said that life is not a station, not stationary. Life is, or should be, progress, and progress does not know perfection. The Standard appeals to me as an interpretation of this progress, the Standard makers being interpreters. Having interpreted the work of master breeders, having studied the decisions of those experienced judges who know quality, and reduced the observations to rules and figures, a new Standard is published. Then with book in hand, are we to turn to the great teachers and jest them about their lack of book learning? They have seen new editions of the Standard come and pass away. * * * * *

"Please, Mr. President, of the A. P. A., do not make your judges go in the show room with your set of copied rules—copied from Nature's winning specimens by this human family of which we are all members, and whose

PARKS' Barred Plym. Rocks

BRED-TO-AND-DO-LAY

1889



1916

J. W. PARKS

ARE AMERICAS' OLDEST and GREATEST LAYING STRAIN

In fact they are conceded by such men as Dr. Woods, Grant M. Curtis, Judge Schwab, Prof. Morrison, Wm. Denny and others to be the daddy laying strain of them all.

Their early history dates back to the year 1889, when a flock of 16 at that time averaged but 96 eggs each. While today they have to their credit individual records as high as 290 eggs in one year. Sworn continuous laying records up to 148 eggs. Small flock averages up to 242 eggs. While a flock of 128 averaged 208 eggs in one year and, better still, they just proved their official laying capacity by laying more eggs in the last Missouri Laying Contest than any other breed entered (The Famous English Leghorns included). In addition to making the best winter month record in the contest, Mr. W. H. Grabill, New Castle, Pa., under date February 3, 1916, writes: "I won Egg Laying Contest of New Castle Pet Stock Association on pullets from eggs of you; winning over three pens of Barron White Leghorns." Under date of February 2, 1916, we received the following from Mr. W. W. Brown, Ardsley, N. Y.: "Fourteen pullets from chicks of you just finished their lay year with 3,411 eggs."

That's what over 26 years of careful, selection, trapnesting and pedigreeing for eggs has done, and not all at the sacrifice of Standard qualities, as our 18 firsts and seconds won at Elgin, Ill., Youngstown, O., Utica, N. Y., Wheeling, W. Va., and Altoona, in addition to four American Barred Rock Club Specials show. That's why our customers today include Madison Square Garden winning breeders.

Eggs that hatch, pedigreed selected, \$5 per 15; \$8 per 30; \$11 per 50; \$20 per 100. Selected utility, \$2 per 13; \$6 per 45; \$12 per 100.

Day-Old Chicks that develop into layers. Chick and Egg circular free. Large 40-page illustrated catalog that tells all about how America's oldest and greatest laying strain has been produced, a dime.

- Box J -

ALTOONA, PA.

"Rainbow" Partridge Plymouth Rocks

Win at all the large shows of the country and the winners at the Panama-Pacific Exposition. The recognized leaders in Partridge Rocks.

The Rockwood Farm

Norwalk, Ohio

Red Feather Farm

Eggs from our Champion Sensation and Red Prince Strains of ROSE and SINGLE COMB REDS. See our ads in R. I. Red Journal, Reliable Poultry Journal, Am. Poultry World and Farm Poultry. They give you a fair deal. F. W. C. ALMY Box 100 TIVERTON 4 CORNERS, R. I.

knowledge, we must be frank to confess, is still in a fledging condition."

* * *

From the above we take it that Mr. Platt, whom we believe to be a conscientious judge of quality poultry, considers that the Standard is but a "set of copied rules" representing the Standard makers interpretation of the prevailing fashion in recognized breeds and varieties of poultry, as set by the progress of the fancier-breeders who are specialists in the development of their favorites. In other words the Standard, instead of leading and presenting an ideal for the breeder to breed up to, merely follows the work of the master breeders and endeavors to report and interpret their work, formulating a set of rules that judges are supposed to comply with when adjudicating, but which they cannot conform to because the master breeders lead the fashion with their specialized products and the Standard trails along behind. The breeder specialists set the pace and lead the fashion and the Standard makers follow and interpret progress. Is that it? If so,



First prize S. C. White Orpington pullet. South Shore Country Club Fair, Chicago, 1915. Bred and owned by Edmond J. Harbin, Box A, 457 Riverside, Ill.

then it is no wonder that judges appear to be guided more by the prevailing fashion than by Standard rules and laws.

* * *

Why not be even a little more frank and admit that the Standard is published chiefly as a source of revenue and that is the reason for the new editions every few years, which render previous editions obsolete, but which really contain but few material changes that mark progress. Why not do as I. K. Felch has often urged, make a Standard that will represent Nature at her best? Why not make it include *all* known breeds and varieties? Why not include the essentials of line breeding, mating, management, conditioning, and growing of quality chicks? This would not make expert breeders of novices, but it would help such to get started right and to avoid the degeneration of Standard-bred stock into mongrel culls, which is sure to follow a few seasons of haphazard breeding unless some experienced person helps with good advice. The book cannot provide the novice with the experience he must have in order to succeed, but it can at least show him the right road to travel. A book made right ought to stand without revision for 20



RILEY'S White Wyandottes

Broke all records at the Ohio State Fair, September, 1913, winning six firsts, three seconds and two thirds. The quality of my exhibit was freely commended by both judges and breeders. This, together with my winnings of December, 1914, at the Great Coliseum Poultry Show and Toledo proves their quality as breeders. They are bred to lay with the same care they are bred to win. Why not try the strain that win as well as lay? Eggs from pens headed by my winners at \$3.00 and \$5.00 per 15 eggs. Some nice Cockerels at \$5.00, \$7.50 and \$10.00. Send for catalog.

H. J. RILEY

BOX A

BRYAN, OHIO

NOTHING JUST AS GOOD

Red Star Brand Fish Scrap

It is a necessity for success—aiding growth and development: its merits are far reaching.

FEED IT REGULARLY

Used with success by hundreds. It supplies all that poultry desires for best results. Catalogue on application. BEWARE OF IMITATIONS.

INTERNATIONAL GLUE COMPANY Dept. A BOSTON, MASSACHUSETTS

S. C. BROWN LEGHORNS

PARTRIDGE PLY. ROCKS

My birds won 1st, 2d and 3d Prizes at the Greater Chicago Show, January, 1916; also Clean Sweep at Grand Rapids, Michigan, same week. Stock and Eggs. Prices Lowest. Mating List Free.

E. A. CROTSEY Box 12 Fulton, Mich.



1st prize Ch. St. Louis, 1915

Gerber's Single Comb

WHITE LEGHORNS

Ours is one of the oldest and best known strains in the Mid-West. Chicago Coliseum and St. Louis winners. Wonderful pens now mated. That will produce real winners this coming season. Eggs for hatching. Stock for sale. Satisfaction guaranteed. Free catalog.

G. J. GERBER

Box 188

DALTON, OHIO

Chicago Winners Jan. 1916

Won every prize on Silver Penciled Wyandottes. Come to headquarters to save time and money. Wonderful young stock for sale, bred from these winners. Eggs for hatching. Our prices are reasonable. Guarantee to please every customer. Write your wants.

AUG. BLOESE

5733 Lawrence Avenue

CHICAGO, ILL.

Porter's Buff Orpingtons

Grand pens now mated, containing my Chicago, Springfield, Peoria and Illinois State Fair winners. The real Orpington type, and rich, even shade of buff. Start with the best. Look! Eggs for hatching, \$2.00 and \$5.00 per 15. Mating list free. Satisfaction guaranteed. Write

A. B. PORTER

Box 4

LA SALLE, ILLINOIS

Minch's R. C. Blk. Minorcas

Winners at Cleveland, Dayton and many Mid-West shows. Grandest pens in the country now mated. First prize cockerel and champion male at Dayton, Ohio, 1915, heading 1st pen. Eggs for hatching and stock for sale at reasonable prices. Mating list free.

Philip J. Minch

1907 East 97th Street

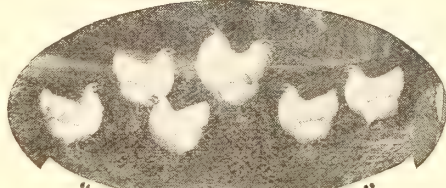
Cleveland, Ohio

Do you want to get twice as many eggs?

See announcement on page 655.

Fishels have prepared to fill your wants and needs

Years ago, their experience and fore-sightedness in the poultry business convinced them that the public would eventually demand heavy egg and meat producing fowls as well as the highest class exhibition specimens. The results were that their strain was one of the very first to demand attention as heavy egg producers and their wonderful, unequalled show record proves the superiority of



"THE WORLD'S BEST"

WHITE WYANDOTTES

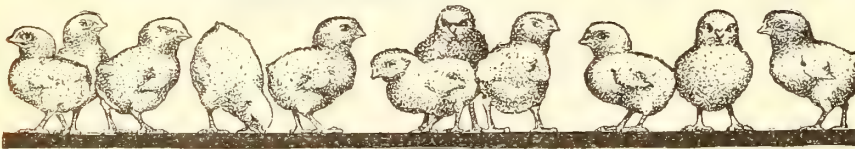
as an exhibition strain, therefore when you get Fishel's Strain of White Wyandottes you get exhibition and utility quality combined and brought to the highest degree of perfection. They are prepared to take care of your EGG AND BABY CHICK orders with that Fishel Promptness.

25 YARDS MATED 25

and several large utility flocks. Eggs range in price from \$2.25 to \$30.00 per sitting, according to quality. Baby chicks at equally low prices. Send for their mating list before buying and see their WONDERFUL GUARANTEE, not only guaranteeing the fertility but the quality as well, allowing the purchaser to be the judge—THAT IS FISHEL FAIRNESS.

J. C. FISHEL & SON

Box J, HOPE, IND.



Healthy, Lively, Sturdy Chicks

are reared only in homes kept strictly clean and sanitary. Every baby chick in your yard represents an investment of time and money. White diarrhoea and other fatal diseases, when once started in a flock spread rapidly. Don't take chances with your investment. Prevent contagion, lice, mites, etc., from getting a foothold in your flock by using

CARBOLA
The Disinfecting White Paint

to spread health and sunshine into every corner of your plant. A snow-white mineral paint with which is combined the most powerful, germ-and vermin-killing disinfectant known to science. Completely effective yet absolutely harmless to the birds. If you want your birds to have clean, wholesome, sanitary quarters

Use it instead of whitewash

Comes in powder form. Mix with water and it is ready to use—no straining or bother of any kind. Easily applied with brush or sprayer. Will never flake, peel or blister. Send 25 cents now for trial package—money refunded if results are not satisfactory. Your dealer carries it in stock or can get it for you at the following prices:

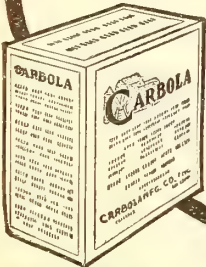
10 lbs. (10 gal.) for \$1 plus postage.
20 lbs. (20 ") for \$2 delivered free.
50 lbs. (50 ") for \$4

Do not accept a substitute. Write us if your dealer will not supply you. We'll rush shipment to you.

Carbola Chemical Company

Dept. I

7 East 42nd St., New York



The "Aristocrats"

Eggs from the greatest matings of the grandest Silver Wyandottes. Chicks from these matings will speak for themselves of their quality in the show rooms this fall and winter. 10 grand pens and every one headed by an Aristocrat. My mating list telling all about them is free; write for it.

FRANK FAHA, Jr. - Box 730 - Dyersville, Iowa

years and be well worth the purchase price.

* * *

Some time ago we stated that we believe that it is the oil in fish that gives a fishy taste to eggs and that fresh fish and fish scrap may be fed freely to poultry without giving a fishy taste to the eggs, provided the fish is comparatively free from oil or fat. Several subscribers have written to ask how the oil may be extracted from fish. We do not know the best way, but we believe it can be done. We feed fresh fish and fish scrap freely to growing stock and to layers and have never had any bad results. On consulting a fish scrap manufacturer he told us that in making scrap he had not found any practical way to extract the oil and that it is their practice to use only fish that are comparatively free from oil. The cod-fish carries most of its oil in the liver and the same is true of some other fish. In this manufacturer's fish scrap, cod-fish waste—chiefly heads—is used large-



First prize Partridge Rock cockerel in a large class, Chicago Coliseum, December, 1915. A bird showing good Rock type and color. Bred and owned by Meadow Lawn Poultry Yards, Dept. C. D., Sand Creek, Mich.

ly; the livers are too valuable to be used for such purpose. Certain fish like herring, porgies, rays, horse mackerel, sharks, etc., carry a large proportion of oil in the flesh and are not considered desirable for making fish scrap for feeding layers but the contained oil does not make them undesirable for feeding growing stock unless intended for market purposes, when oily fish should not be fed for several weeks prior to finishing. When we are obliged to use fresh fish that is oily, we boil the fish; allow the stew to cool and skim off the excess oil or fat before feeding or mixing with the mash. We have had only good results from feeding fresh fish and fresh fish scrap to poultry and have never yet had a chicken with a fishy flavor or eggs so tainted. Fish makes a splendid growing food for chickens and may be fed quite freely—much more so than meat—and there are generally plenty of waste fish of both the salt water and fresh water sorts available at low cost.

* * *

A very good fish scrap for poultry feeding is produced as a by-product in the manufacture of glue. We under-



"Wilburtha Rex"
1st Cockerel—Madison Square Garden

Wilburtha Service

Strengthen your flock in the weak places. Tell us your needs. We'll be glad to write you fully. Our experience as successful breeders is at your service.

Columbian Plymouth Rocks

Our strain is of exceptional quality. The males heading our pens are all leading winners at the big shows of this and last year. Many of the females have been in the ribbons as well.

Baby Chicks and Hatching Eggs from these Superb Pens

Mating Lists and Catalog—Free

Wilburtha
POULTRY FARMS

Chas. J. Fisk, Owner M. L. Chapman, Mgr.
Box J
Trenton Junction, New Jersey

Satisfaction Guaranteed

We guarantee 85% fertility for hatching eggs after March 1st. We ship baby chicks in the best approved boxes and guarantee them to arrive safely and in full number.

S. C. Rhode Island Reds

Wilburtha Reds are wonderful for type, and sound in color. Rich, deep red with splendid black markings. An infusion of Wilburtha blood will do wonders for your flock.

Baby Chicks and Hatching Eggs from Carefully Selected Pens

"Prince Reddy"
1st Prize Pen Cock—Atlanta



stand that oily fish cannot be used to make good glue, and therefore such scrap is practically free from fish oil. Fish scrap when purchased should be dry and free from lumps. If lumpy and caked, with greenish color shown on breaking down the lumps, it has heated and spoiled and is unfit for poultry food. Generally, heating and spoiling is the result of storing the scrap in a damp place or allowing it to get wet.

* * *

February gave us a long continued spell of real old-fashioned Winter weather. Owing to severe cold and heavy snows we did not begin hatching as early as usual. Our first hen was set March 1st on No. 1 dark brown eggs from our best White Plymouth Rocks. Fertility tests and hatchery reports showed splendid fertility in all of February eggs.

* * *

We have secured from Herb E. Sharp, Spokane, Wash., a cockerel, two pullets and one hen of his sex-bred Black Langshans. These birds he guarantees to produce not less than 75 per cent pullets. We intend to use them as a foundation and to test out his claims carefully. The birds arrived on Saturday, February 26th, having been nearly nine days on the road. Owing to carelessness of the express company they were nearly starved on the road and were very thin on arrival, but were healthy, active and vigorous and are now coming into fine condition. With these birds we received a detailed pedigree record dating back to an original mating for sex-production in the Spring of 1912. We have installed this small flock in a 10x16 ft. open-front house, equipped with trap nests and shall follow the individual records of the three females with considerable interest. It is our intention to set all eggs laid up to mid-summer and to keep a careful pedigree record of all chicks. We shall also grow a number of Black Langshan chicks from other lines of exhibition-bred stock to compare with the Spokane Langshans.

* * *

— Grain continues to be shipped out of the country in amazingly large quantities, every ship clearing for European ports carries a large proportion of grain in her cargo. Grain prices continue high and are likely to stay high, while the quality of grain offered for poultry feeding is none too good. From present indications poultrymen in this section will not grow as large crops of chickens as usual.

* * *

The U. S. Department of Agriculture is applying the Federal Food and Drugs Act to interstate shipments of eggs in the shell. In the opinion of the Department, eggs which contain yolks stuck to the shell, mouldy eggs, black spots, mixed rots, addled eggs, black rots, and any other eggs which consist wholly or in part of a filthy, decomposed or putrid substance, are adulterated. Country shippers are advised to candle all eggs before making interstate shipments. It is considered practicable by candling to eliminate from any given shipment most of the eggs regarded by the Department as adulterated. Any case of eggs containing over 5 per cent of bad eggs—more than one and one-half dozen in a 30-dozen case—will be considered as adulterated. To avoid loss of shipments and a possible fine for adulterating eggs, make sure that all shipments are care-



"Peter, The Great"
1st Cock—Grand Central Palace

April Hatches

Chicks hatched this month make the best fall and winter layers. You want strong, vigorous livable Baby Chicks that will mature quickly. We have them.

S. C. White Leghorns

They live and lay; they win and pay. America's greatest flock celebrated as show birds. Noted the world over for vigor, vitality and wonderful egg production.

Baby Chicks and Hatching Eggs from Pens Headed by "Peter The Great" and Other Prize Winners

Mating List and Catalog—Free

Wilburtha
POULTRY FARMS

Chas. J. Fisk, Owner M. L. Chapman, Mgr.
Box J
Trenton Junction, New Jersey

Laying the Foundation

Buy the very best you can afford. Remember you are investing for future profits. If you are starting now, it is especially important that you lay a good strong foundation.

Columbian Wyandottes

Our birds made a marvelous show record during the past season. They are all line bred and strong in both shape and color.

Baby Chicks and Hatching Eggs from Pens Headed by "King Ermine" and Other Magnificent Males

"King Ermine"
1st Prize Cock—Madison Square Garden
Exhibited at Many Shows—Never Beaten



Speckled Sussex

Are acknowledged the fastest growing breed in existence; are extra prolific layers, especially during the Winter months, and the coming Show Fowl of America

PEN 1—Headed by 1st cockerel at Quincy, a son of last season's Crystal Palace champion bird; weight, 9 lbs. Mates are first pullet at Quincy and daughters of Madison Square and Buffalo winners.

PEN 2—Equally good, containing daughters of imported Crystal Palace winner and Madison Square winners.

PEN 3—Cockerel same breeding as male in Pen 1. Mated to high class females.

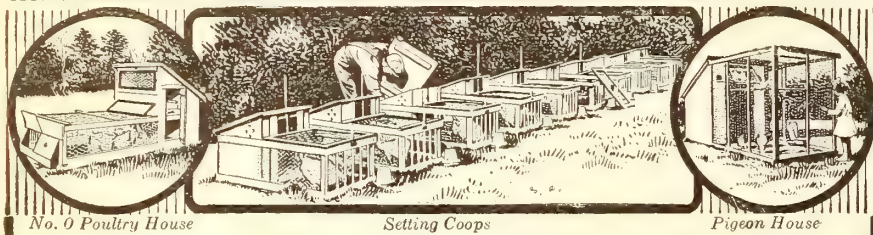
EGGS

From pens 1 and 2, \$5.00 per 15

From pen 33.00 per 15

My eggs are hatching better than 90%. Mating List Free.

CHAS. A. SIMMONDS -:- CAMP POINT, ILL.



No. 0 Poultry House

Setting Coops

Pigeon House

HODGSON PORTABLE HOUSES

This sanitary poultry house is an egg-record breaker for 12 hens. The setting coops keep the hens by themselves while setting. The pigeon house (with its flight cage) is fitted complete for ten nests. Hodgson poultry and pet stock houses are the most scientifically constructed on the market. Made of painted sections that can be bolted together by anyone. Send for illustrated catalog.

E. F. HODGSON COMPANY Room 332, 116 Washington St., Boston, Mass.
6 East Thirty-ninth Street, New York City

Queen Strain S. C. Wh. Leghorns

are putting "pep" in many a mating this season. Why not in yours?
Only a few Affidavit cockerels left! Send for catalog. Special discounts on Eggs and Chicks during April, May and June.

APPLE GROVE POULTRY FARM - Delavan, Wis.

"Premier" Partridge Wyandottes

Won 37 Firsts out of a possible 44, at America's eight greatest shows during the past Winter. The 20th Century Beauties, bred for utility as well as appearance. Exhibition and Breeding Stock at reasonable prices. Baby Chicks 60c each in lots of 10. Eggs for hatching, \$5.00 per 15. Beautifully illustrated catalog full of valuable information, Free.

SHEFFIELD FARM

H. B. Hark, Mgr. Poultry Dept.

GLENDAL, OHIO

KELLER'S WYANDOTTES, SILVER, GOLDEN & WHITE

LINE BRED FOR 30 YEARS

One of the oldest strains in America. Winners of thousands of premiums at Madison Square Garden, Chicago, St. Louis, Buffalo, Cleveland, Cincinnati and Columbus during the past 28 years. They have the size, shape, color and narrow lacing that puts the Keller stamp on them. Choice stock to spare. If you wish to raise fine exhibition stock that are heavy layers as well, you will find the combination in this strain. Eggs from fine matings at \$3 and \$5 per setting; also fancy golden Sebright Bantams. Large circular.

IRA C. KELLER, Expert Judge

Brookside Stock Farm, Box 75, PROSPECT, OHIO

(S. C. WHITE LEGHORNS)

TRAP NESTED BRED-TO-LAY

Egg record 265 in one year. Baby chicks \$12 a hundred. Eggs \$1.50 to \$3 a setting. Send for mating list. Safe delivery guaranteed. CARL J. JENSEN, NORTH AVE., WAUKEGAN, ILL.

Gensch's S. C. White Orpingtons

Winners at Coliseum Show, Chicago, Wisconsin State Fair, Illinois State Fair and the Wisconsin State Poultry Show, and at the National Egg Laying Contest at Mountain Grove, Missouri. Send for Mating List.

F. M. GENSCH

Box G

OMRO, WISCONSIN

ASTLE'S QUALITY BUFF ROCKS

Eight pens of winners at Greater Chicago, Illinois State, Chicago Coliseum, Kankakee. Mating List Free.

MILAN C. ASTLE

Box A

MOMENCE, ILL.

Speckled Conrad's Sussex Red

These grand winter layers are producing eggs for setting now. Try an early hatch.

E. K. CONRAD

SX Street, Hackensack, N. J.

"A Revolution in Egg Production" is a book along an entirely new line. Every poultryman should have it. See the advertisement on page 655.

fully candled and are free from bad eggs. The sale of tested out eggs from incubators for any food purposes is now forbidden by law. The poultry keeper should thoroly cook all infertile eggs tested out of incubators and use same for feeding his poultry, if eggs are in good condition; if eggs are not in good order bury them.

* * *

Bad eggs sold for manufacturing purposes must not be sold in the shell, if intended for foreign or interstate commerce. Such eggs, for tanning or other technical uses, must be removed from the shell and "denatured" prior to shipment. Such eggs cannot be sold for food purposes. Formerly a considerable quantity of salvaged bad eggs found their way into food products thru bakeries and manufacturers of cheap candies.

* * *

John H. Moore in the *Poultry Item* says:

"If the American Poultry Association really has at heart the best interests of the 'fancy' it will eliminate from its exhibition standards those requirements to attain which one must depart from natural methods of breeding; it will reconsider its purpose to issue separate breed standards, the chief object of which, as I understand, is to instruct the breeder of certain varieties of fowls how to practice double mating; it will come back to nature's teachings, to God's ways, and will speedily hand Satan his passport.

"No skillful breeder will be developed thru the medium of breed standards, whether they are intended to teach double mating, single mating, or both systems. Intelligence, care, patience, energy, good judgment, and natural talent for the study and mating of fowls, are the qualifications one must have to become a good breeder, and, possessing these characteristics, experience is the only teacher needed. He who has the points I have mentioned is all right; he who has not is all wrong; and breed standard instructions will avail nothing in either case. No person whomsoever can properly instruct Tom, Dick and Harry how to mate fowls so as to secure good results. The skillful breeder has enough to do to successfully mate his own birds, which are constantly under his eyes. Many exhibitors who win honors in the show room cannot breed prize birds. They buy the specimens they use for exhibition purposes. All the separate breed standards under the sun, or that may appear, will not make a single good breeder. The height to which a breeder may attain in skillful mating will depend upon his own individuality. The separate breed standards which the American Poultry Association propose to publish may afford it a small temporary income, but I do not feel that the policy it has adopted is a wise one, for I believe these standards will prove undesirable and disappointing."

* * *

Members of the American Poultry Association would do well to think over what Mr. Moore has to say before they allow themselves to be hypnotized or deceive themselves with a burden of "gold bricks." These are not the most promising times for book publishing even by the best of publishers—and to date the association has not qualified in the publishing class even to the extent of winning an "H. C." ribbon. We should look upon the publication of separate breed standards from its commercial aspect—can the association committee produce creditable separate breed standards that will really be reliable text books and guides to mating and breeding for exhibition quality? Will such text books be fairly permanent or will they be subject to many changes thru the change of fashion and the revision of the regular standard every few years? Is there any real demand for such standards? Will they sell and will they pay? Let us be sure that we do not fool ourselves with any philanthropic buncombe and humbug about the good we are going to do novices by

the publication of these standards, or how we are going to make it easier for the "poor suckers" to breed winning specimens. The association is going into the publishing business because it hopes to make the sale of separate standards a source of revenue, because it hopes to make the books pay.

* * *

We believe that if the association can afford to make and publish separate breed standards that will be illustrated text books containing common sense advice on mating, breeding and the growing of young stock to produce exhibition quality, and will make these books really worth while, that the work is worth doing; but if the work is properly done, carefully done, there will not be much, if any, profit in the publication of such books. Of course such text books will not make breeders, nor will they ever prove more than slight aids to successful breeding. You can supply the best cook book ever written to a novice, but the book will not make a good cook of that novice, unless he or she possesses ability and skill and acquires experience. You can present all



Shape and color special, also 1st pullet, White Plymouth Rock, Boston, 1916. Owned and bred by W. F. Hayward, Westboro, Mass.

the written formulas for breeding that have been conceived and they will not make a successful breeder of the reader. Also we doubt if information on breeding the different varieties of fancy poultry will be obtained that is sufficiently definite to be practical. Ask any skillful breeder for advice on mating and breeding and note how vague and indefinite the answer. The breeder may know how he produces exhibition birds, but he finds difficulty in telling how he does it. And there is a reason. In our recognized Standard breeds and varieties we have many kinds of poultry. Some breeds are practically pure breeds, some are grades, some are mixtures and some are merely mongrels, when viewed by other standards of animal breeding. In mating to secure best results, each and every mating is an individual problem for the breeder. It is not alone a matter of selecting a given male to mate with certain females. You should know what is back of the proposed breeding specimens for several generations. The influence of line breeding, or the lack of it, is considerable. Ask any prominent breeder, and pin him down to actual facts, not generalities, and he will admit that the trap nest, or individ-

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Same Day
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Save Your Chicks

It does not pay to spend the time hatching them and then lose the chicks by improper brooding. With the coal-burning MacKay Colony Brooder, you will soon save enough birds to pay for the equipment. It is the first self-regulating Brooder of its kind, the one longest in use and that has passed the real test of time.

Both Bottom and Top Drafts

And Automatically Regulated

Its bottom draft is under the grate where it belongs and with this bottom draft your fire will be kept burning in mild weather when the chicks still need the heat. A turn of thumb screw at the thermostat gives any temperature desired.

The MacKay Will Save You Time, Worry, Labor, Fuel, Chicks and Money

Write for big illustrated catalog now and please give the name of your dealer. We are prepared to make shipment the same day your order is received.

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Every reader of the American Poultry Journal who owns an automobile or contemplates buying one, will be given a Rand-McNally automobile road map free in return for the information requested in the coupon below. These maps show main and secondary roads, railroads, cities, towns and villages. Select any one of the following, or if the map desired is not listed below, name it on the coupon and we will endeavor to secure it for you:

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EGGS EGGS EGGS**That Hatch Big Husky Chicks.**

Every Egg guaranteed fertile regardless of distance shipped.

McConnell's S. C. B. Minorcas

America's Greatest Trap-Nested Egg Producing and Exhibition Strain.

Won 16 International Ribbons and all Specials at World's Fair, San Francisco. The largest and strongest MINORCA class of the season. Over 100 shows this season were won with my birds.

My 40 Pens Mated for 1916 Egg Trade were never equaled by any other breeder in America. For quality, size and number of eggs produced, no other fowl can approach them. If interested in these wonderful egg producing Minorcas, send for Mating List; it is Free. Breeding stock on green range every day in the year.

BREEDING FOR EGGS MY HOBBY.

J. V. McCONNELL, Box A, GARDEN GROVE, CAL., U. S. A.

Olle's White and Partridge Rocks

Have been for years a successful breeder of these two varieties. Now is the time to buy

**Eggs for Hatching
From World's Fair Winners**

Wonderful win made this year at the great Chicago Show. Stock for sale. Every bird guaranteed and sold on approval. Send for free mating list. Buy eggs now and be ready for the show season.

P. J. OLLE - Route 4 - RACINE, WISCONSIN

If You Are Feeding for Egg Profit

If you want the variety that inspires admiration everywhere, non-setters, therefore prolific layers of large white eggs always, a most delicious table fowl, start right and right away with

Pape's Single Comb

BLACK MINORCAS

Tending them is pleasant, wholesome and pays well. Am offering cockerels that will improve any flock; hens and pullets laying; mated pens on approval. **Eggs guaranteed to hatch and chicks at introductory prices.** Free catalog contains season's winnings and description of matings. Write your requirements today.

CHARLES G. PAPE Box B 74 FORT WAYNE, INDIANA

**8 TIMES MORE CHICKS
By using "OCULUM"**

Trial Bottle (2400 Chick Doses) 10c. Save Your Chicks. It Is Saving Thousands.

"I raised half of a recently hatched batch of thirty-two baby chicks with 'OCULUM.' All of them lived, while out of the other half but two out of sixteen survived White Diarrhoea, and this in spite of other treatment given the sick chicks."

H. S. WETZLER, Manager Successful Poultry Journal, Chicago, Ill.

Our FREE BOOKLET also tells you HOW to make hens lay and roosters FERTILE.

H. I. COMPANY, Inc. - Box B - SALEM, VIRGINIA

COLE'S BUFF PLYMOUTH ROCKS

Champions of the Central West

at Canton, Ohio, December 28, 1915, to January 2, 1916—Central District of the Buff Rock Club—won Central District Cup and best display. At the great Triangle Show, Fort Wayne, Ind., January 18-23, 1916, in competition with Panama Exposition winners, 81 Buffs in class, won: Cocks—1st, 2nd, 3rd, 4th, 5th; Hens—2nd, 3rd, 4th; Cockerels—2nd, 3rd, 4th, 5th; Pullets—1st, 4th, 5th; Young Pens—1st and 5th, and four sweepstake specials. S. C. Buff Leghorns and S. C. White Leghorns—bred on separate farms from record-laying hens. Catalog free.

FRANK C. COLE

VAN WERT, OHIO

ual mating, is teaching him the value of certain individuals, as producers of quality, that he never appreciated. By individual matings he has discovered prepotency that he could not see in the specimen. Get him to go deeper into the subject and you may have him admitting that the twelve pens he has, each and every one represent not only a different breeding problem in mating for each pen, but that the several females in each pen yield him widely differing results. A mating made from the fowls in hand, without knowledge of their ancestry or relationship, must be a hit-or-miss mating and may not prove any better than any other haphazard mating. One needs to know not only the sire and dam, but the grandparents and great grandparents in order to mate intelligently. A text book may be a help, so is a love of fine quality fowls, but one must have ability, sufficient application to study the fowls as individuals, skill and experience, in order to become a successful breeder. We believe that separate breed standards could be made very desirable and interesting books, if built to conform with Nature's standard and made with a view to a reasonable degree of permanency, and if the text is prepared by competent successful breeders; but if built to agree with our present rather unsatisfactory and ever changing Standard of Perfection, which becomes out of date and obsolete at frequent periods and which is more honored in the breach than in the observance of its rules, it would appear more desirable to get the foundation set right before we begin to extend our publishing business. We would like to see separate breed standards of the right sort, but we do not believe in attempting to build such books on the shifting sands of the present "main standard." Such a foundation is not good to build on. Nor can we enthuse over books that are to be published chiefly as a source of revenue.

* * *

If we really want to help the novice and to prevent him from mongrelizing his flocks in a few seasons, then we should make a business of selling him carefully mated breeding stock and stop encouraging him to buy high-cost "new blood" to "improve" his stock; teach him to line breed instead of outcrossing every year with a new male—because a market is wanted for surplus males—and we should supply him with a natural standard in place of this artificial one, which, if its rules are strictly applied, will disqualify birds that are "priceless as breeders." We should put the prizes on quality that will reproduce itself instead of upon beauty that is for the show room only. If association members are sincere in their purpose to "uplift" the business of producing fancy poultry there is plenty of work to do. We can sell the novice birds that we know will give him good results and we can tell him how to manage them for best results. We can stop selling beautiful show specimens for breeding purposes when we would not breed such birds in our own yards. We can do lots of things that we do not do now, and we should stop doing a good many things that are now common practice; but if we are to accomplish these reforms—and I do not care to be classed with the "reformers" for such are generally among the biggest fakirs in any business—we will have to divorce fancy poultry breeding from fancy poultry

commercialism. Just now commercialism appears to be rampant in our international poultry association, which is supported thru exploiting itself to secure new members and thru the sale of its publications.

* * *

We have no quarrel with commercialism when it is honest, when it is legitimate business and admits it. The kind that disgusts us is the commercialism that parades abroad under the cloak of sportsmanship and fanciership—like a wolf in sheep's clothing—and pretends to extend the helping right hand of fellowship while its left hand picks your pocket; the sort of business that abuses and condemns a competitor for acts and methods that it has used, and continues to use, itself.

* * *

If the appeal, which has gone out for data, information, special articles, etc., for the proposed new separate breed standards, meets with ready response, there should be sufficient material collected to make each breed book considerably larger than the present "main standard" for all recognized breeds and there should be plenty of matter left over to keep a few poultry journals supplied with copy for quite a long while.

* * *

It is interesting to observe that an experienced and skillful breeder can take either a pullet or cockerel bred line of breeding stock and in a few years of careful mating and selection produce therefrom stock that will yield good quality specimens of both sexes. It has also been noted in Africa and India, where white poultry fanciers come in contact with the native poultry keepers, that the whites can take the small scrubby native chickens and soon breed them into better size, uniformity, better quality and greater production, bringing about a standardization of the flock; yet if these better birds, developed by the whites, are returned to the natives degeneration is rapid and in a few seasons the young stock is small and scrubby and no better than when first obtained by the whites. We do not need to go quite so far afield to note similar conditions, for in many cases this is what happens when a specialty breeders sells good stock to a novice. The novice can remedy the matter by study and acquiring experience and skill.

* * *

Not long ago a well established specialty breeder stated that he made his start with a small flock of imported stock, to which he added during the first season by purchase of more good stock and eggs for hatching. Thereafter for more than 30 years he bred that stock without the introduction of new blood; would not introduce new blood because it would temporarily upset his whole line of breeding. He bred to a personal ideal of evolution in the natural beauty of his variety and without regard to rules and laws of a shifting standard. He was and is successful as a breeder and exhibitor and has produced a strain wherein his matings give him not over 3 per cent of cull specimens. A small breeder starting with a foundation of such stock, and possessing intelligence and experience in breeding, would need no other—barring losses or accidents which could be remedied by purchases from the original strain—and would find it unwise, and attended by considerable risk, to introduce new and unrelated blood.

Special to Poultrymen

You May Rent **Genuine Underwood Typewriters** **At Less Than Half Price**

or Buy **10 Days' Free Trial** Write your letters, your bills, quickly, plainly, legibly. Let us send this machine to you on trial. If it don't exactly suit

you ship it back at our expense.

Should you decide to keep it, rent it—then should you finally decide that you want to own it—every cent of the rental you have paid for six months will be applied on purchase price. Write for full information.

Ask also about Big Free Offer No. 184.

Typewriter Emporium
Chicago, Ill.

Established
1892



Always Accurate

Tycos Thermometers must pass long severe tests before leaving the factory. They are absolutely dependable. Whether you are buying incubators or brooders, *insist* that they be equipped with *Tycos* Thermometers. Put *Tycos* in your old machines, too.

Tycos
BROODER
THERMOMETERS

Demand Them—Always

The best machines always have *Tycos* Thermometers. That's the way you can judge them.

PRICES (Postpaid)

	Each
<i>Tycos</i> Incubator Hygrometer	\$1.50
<i>Tycos</i> Incubator Thermometer	.75
<i>Tycos</i> Brooder Thermometer	.75
<i>Tycos</i> Certified Incubator Thermometer	1.00

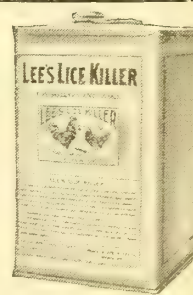
Taylor Instrument Companies,

100 Ames St., Rochester, N. Y.

Kill the Lice and Stop that Roup

LEE'S LICE KILLER and GERMOZONE are now obtainable at most towns. Where not, we can deliver Germozone by mail at 50 cts. (tablet form) and Lee's Lice Killer at \$1.25 per gallon can, express paid. Send for our new books, just out, "*Care of Baby Chicks*" and "*Secrets of Success with Chickens*." Best ever published. Condensed experience of twenty-five years in handy, readable, memorable form. invaluable for reference all through the season. Free for stamp.

GEO. H. LEE CO., 302 Lee Bldg., Omaha, Neb.



Reply to Reliable Poultry Journal's "Unregenerate Editor"

As Grab-Much Curtis Has Favored My "Open Letter" with Five Pages of Advertising, I Do Not Wish to Appear Ungrateful; Therefore This Reply in the Manner of the Illustrious Dictator. But, Thank Goodness, No One Can Hope to Imitate His "Arizona Kicker" Style.

By Prince T. Woods, M. D.

YOUR MAJESTY:

I note that your own faithful "Dick" and "Teddy" rushed to your royal protection with my "generally foolish Open Letter," as you term it. Note also that you devote *five* of your valuable (?) pages to this letter and your reply, which I assume is intended in a "foolish" vein. If proof were needed of your majesty's dictatorship, the letters of Messrs. Richards and Campbell should be sufficient. The letters I have read all bear the earmarks of private ownership.

Well, thanks for an evening's amuse-

ment and hilarity. I don't know when the whole family have had so much ridiculous nonsense to laugh at in a long time as that you furnish in your March issue. And, yet, Potent Emperor, my open letter was not so "foolish" as it

may seem to you; since many people have written me very complimentary letters about it. No doubt it all seems strange to you, for, 'tis said, Emperors seldom hear the truth from those about them. You owe me that "walking stick" with your insignia for a head, which you so kindly offer on page 82 of your March number. I have many more than the half-dozen letters you mention, and if you will come here to Silver Lake, we will put on our gas masks, endure the fumes of sulphur, and show you the

when I smoked up the burrow, and now, as always when a poultryman does likewise, the whole neighborhood has the scent.

As to the "pointed eggs": oh, Most High and Learned One, do your faithful "yellow dogs" always serve you with round eggs only, or do you now and then find an egg more pointed than your pithy sayings? Keeping just ordinary useful Standardbreds, we get a considerable percentage of pointed eggs, which we find quite as useful as those which are as round and blooming as a certain cra-



View on the poultry farm of J. C. Fishel & Son, Hope, Ind., breeders of White Wyandottes.

ment and hilarity. I don't know when the whole family have had so much ridiculous nonsense to laugh at in a long time as that you furnish in your March issue. And, yet, Potent Emperor, my open letter was not so "foolish" as it

originals that you may see the proof for yourself. Am glad, indeed, to see the avalanche of wrath turned away from helpless victims, even tho you have headed it in my direction. I knew full well what kind of an animal was inside

nium, which I could name but will not.

Why did the *American Fancier* print my open letter? Well, I believe that they approved of it. They said so, and had a large number of complimentary letters, so I was told. Why did AMERICAN POULTRY JOURNAL not use it? Ask our make-up man. It was in type but got crowded out at the last moment along with about 20 galleys of other matter we intended to use. We are not so hard up for matter to fill up with as some appear to be.

As to our motive? That was an honest one,—a hope that you, Great Mighty Colossus, might see the error of your way and stop your fulsome tirades about poultrymen who do not think as you do, but who are probably quite as honest and desirable. If the tide of your majestic wrath can be turned my way but for a moment, it may help the poor devils you abuse and it won't hurt me; for I listened to it for so many years that I became used to your ranting and miss the soft music of your lithesome voice,—albeit it has been a good and most satisfactory miss.

Name one large advertiser who should be classed with those so-called "hucksters?" Sure, Glistening One, whom should I name but your Great Self? Surely in all time, there never has been

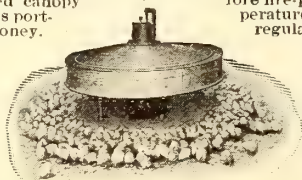
MODEL BROODERS Raise Vigorous Chicks

THE best incubator will not save you from failure if your brooder isn't right. Give your chicks a chance to live, thrive and grow. Help them over the critical first three weeks—your success is then practically assured. Model Brooders are recognized as standard for Efficiency, Safety and Reliability. The low prices and their insignificant upkeep cost will astonish you.

Model Coal-Burning Hover, Only \$15

Never before has such an offer been heard of. All cast iron—will last for years. Fire fed evenly and continually from magazine. Perfect combustion—self regulating—self cleaning. Absolutely spark-tight and gas-proof. Combination checking and ventilating draft. Easily accessible—cone shaped canopy raised on furnished pulley. It's portable. Saves time, care and money.

Write for 128-page New Poultry Book, "First Aid to Poultry Keepers." Money-saving information—pointers to successful breeders; advice for beginners. Now ready. Write today for your copy—it's FREE.



Oil-Burning Chick Comfort Hover \$8.50

The most perfect portable hover ever offered regardless of price. Highest heating power of any hover on the market today. Takes less oil and less care than any other. All metal—thence, fire-proof, absolutely. Even temperature. Automatic ventilation and regulation. Easiest to clean; patented lamp; draws out—no kneeling to clean. Chicks are SAFE at all times; no corners to crowd into.

MODEL INCUBATOR
COMPANY
2 Henry Street, Buffalo, N. Y.
39 Barclay St., New York, N. Y.

GLORY-ANNA
S. C. WHITE
LEGHORNS
Eggs for Hatching
from grand pens, headed by my
Indianapolis, Nashville, Louisville and
Memphis winners.
Write for Catalog and Prices
GLORY-ANNA POULTRY YARDS
G. E. Schulz, Prop. 547 S. 4th Ave., Louisville, Ky.

Sears' Barred Plym. Rocks



"Coliseum Queen"
Winner of two
Blue Ribbons at
Coliseum Show.
A record
never equaled.

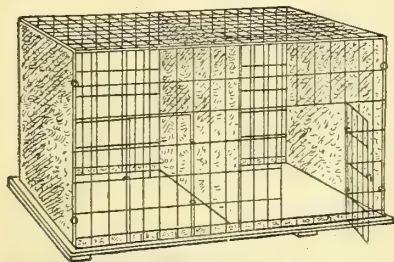
Make Big Killing

at Northern Illinois Poultry Show, winning all first and second prizes on single birds, and three firsts on pens; silver cup for best ten birds in show-room, and silver cup for best display in American class.

EGGS, \$5.00 PER FIFTEEN
(Express prepaid)

Circular for the asking.

Howard O. Sears Lock Box 6
Garden Prairie, Ill., U.S.A.



All metal, sanitary cooping. Catalog giving prices on new and second-hand cooping. Shows cooped on rental.

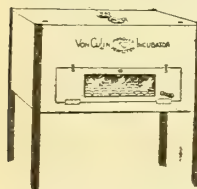
GENESEE COOPING CO., Rochester, N. Y.

BARRED PLYMOUTH ROCK EGGS

Sid Conger, Thompson, Bradley Bros.
Hercules and Spangle Strains.

1 Setting \$1.50, 2 Settings \$2.50, 4 Settings \$5; \$7 per 100

DAVE CONGER, Anderson, Ind.



Von Culin Incubator

The oldest make on the market. The latest up-to-date incubator. Made of sheet metal. Double and packed walls. Light and compact. Equipped with Von Culin Fireproof Lamp. Thermometer slides thru door. Price to compete with inferior makes. Catalog No. 15 free.

GEO. WATSON BEACH, Mfr.
126 Liberty St., New York, City

MILCH GOATS

Are free from all disease. They can be successfully kept on a town lot or a large or small farm. Their feeding cost is trivial, and they produce large quantities of rich milk. Learn all about them by sending \$1 for a year's subscription to **THE GOAT WORLD**.
Drawer K.K., - Baldwin Park, California.

S. C. White Leghorns

won 2nd cockerel, 3rd and 4th pullets at Indianapolis; 1st and 4th cockerels, 1st and 3rd pullets, at Fort Wayne, Ind. Mating list. No stock for sale.

JOSEPH MAZELIN - Berne, Ind.

BIGELOW WHITE ROCKS—Big winners at Cleveland (1916) Show; also 1st in every White Rock class, including silver cup for best type bird in show at Wadsworth. Eggs from choice matings \$3 per 15; Eggs from choice utility stock \$6 per 100.

P. C. BIGELOW, Box A, Medina, Ohio

a Greater "Huckster," and as a large and constant advertiser you have out-huckstered them all. What has been your business for years in stock and eggs but a "huckstering" business? How many buyers, in more than one line, have clamored for delivery of the goods or their money back? And some beautiful time they had of it before they got it. How many breeders who sold your interests, stock and eggs, had to clamor for their pay and threaten suit to get it? It is but a short time since I heard mention of such a complaint, and at one time I heard many,—that should be well known to you, for there was one case you bid me never to mention to you again.

"Don't generalize, insinuate," etc., you say, why, Most Fragrant Sultan, I but took the cue from you. It has been your way for a long time. I don't quibble more than myself in these matters, and, if I mention no names here, it should be understood that it is because I have no wish to violate the confidence of those who have written me. As I am not versed in the usages of the court—and know the harem not at all—oh, Ruler of the Faithful, you will have to pardon my seeming unwillingness to obey your suggestion that I drag into your net worthy poultrymen so that you may "flay them alive" and then with "cord and sack" do injury to their business and their reputation. I hope that we will not see any more such elevating examples of your methods as the Harrison-Penick lengthy tirades, which I trust soon end. Untaught, as I may be and do confess, in intrigue in such a court as yours, I do not fancy putting my words into the mouths of others or of advertisers—as seems to be your way—with a rule in effect that if they object to being so quoted they place themselves in line for a public "bawling out" and business ruin in-so-far as the Great Sultan's edict carries. I had rather dig in the trenches, at an enlisted man's wage, than be a so-called "leader" on whom people fawn, smirk, and flatter because unless they do so they risk injury in reputation and purse. Use the unretouched looking glass of truth, oh, Napoleonic Sultan. If the American Poultry Association wishes to save itself from ridicule and perhaps a poultry St. Helena, the best thing it could do would be to give you the alternative of resigning from its committees or else behaving like a reasonable, rational human being, instead of like a spoiled and naughty boy, who insists on having his own way regardless of consequences.

As for the Golden Rule Farm, which you have written up in many ways; by your own testimony the proprietor has done much good in his home community. Your Mr. Fry's story shows that Mr. Berry, whom you attacked with no visible excuse, has done and is doing a great and good work for better poultry throughout the countryside about his home; *helping to put dollars into the pockets of the poultrymen about him.* I wonder, great little Napoleon of Poultrydom, (seventh reincarnation, I believe you said it was) just how you would stack up if measured with the same stick?

Do I approve of "hucksters?" Most certainly I do of some, for I know some "hucksters" and the condemned "big string men" who are good fanciers, good judges and breeders of pure bred poultry and who are honest men and women. I would not condemn or besmirch all, because a few do not do as I think they should. I don't think that you, Great

S. C. Buff Orpingtons

For the past five years "Sunset Strain" Buff Orpingtons have proven their worth, both in the show room and as winter layers of large eggs, therefore I can safely say that in all New England, no matter what you buy, you can buy none better. I do not advertise as heavily as some of the other breeders, but I do give you 100 cents worth of value for every dollar you send me.

When you buy chicks or eggs from me, you buy from one of 12 pens with a record behind them. These pens are mated from birds that have type and color, together with laying qualities. If you have tried the other Buff Orpington strains, try the "Sunset Strain"—then you will be satisfied.

My birds are bred to make good. They do for me and they will do the same for you. Therefore don't put it off, but send for our mating list and prices right now. Never put off till tomorrow what you can do today.

SUNSET POULTRY YARDS

"THREE WORDS THAT MEAN GOOD BIRDS"

C. E. SIEGEL, Prop.

70 Daniel Ave. Olneyville, R. I.

LAKENVELDERS

The Best Layers and the Most Beautiful Fowls in the World

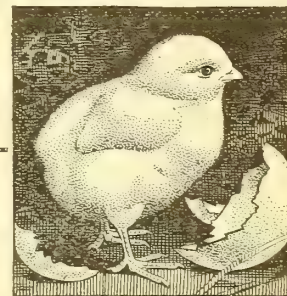
Our strain of Lakenvelders has won more first and special premiums than any other strain in existence. Our first premiums are not confined to the biggest poultry shows in this country, but we have the winners of the biggest poultry shows in Europe. At the last Madison Square Garden Show in a large class we won first and third cock; first and second hen; second, third and fifth cockerel, and first, second and fourth pullet.

If you want the best there is in Lakenvelders, write us.

EGGS and STOCK For Sale

Send 2c stamp for illustrated circular.

RALPH C. GREENE
SAYVILLE, Long Island, N. Y.



30,000 Chicks for 1916

from four varieties at the following low prices:

	Per 25	Per 50	Per 100
Barred Ply. Rocks...	\$3.00	\$5.50	\$11.00
S. C. W. Leghorns...	2.75	5.00	9.00
S. C. Brown Leghorns	2.50	5.00	9.00
Broiler Chicks.....	2.00	4.00	8.00

Chicks all hatched in Candee mammoth machines. Write for free catalog and price list, and mention American Poultry Journal.

MISS BARBARA BLUM, Dept. C. New Washington, Ohio

"Hatched 2000 Chicks - Haven't Lost 30 Chicks In 4 Years"



H. H. JOHNSON

send you some of their letters and photos in this 136-page book—Poultry "Know-How"—and get our quick delivery price on

Old Trusty

—The Boss of them all for big averages and surest profits. For example Old Trusty averaged 90% through 12 years for Bessie Warren, of Tryon, Neb. And Mrs. Maud Rice, of Oklahoma City, Okla., made \$390.00 in one season with Old Trusty. Mrs. S. A. Hefner made \$149.26 in 7 months. E. W. Whitcomb, Steamboat Springs, Colo., hatched out 90 chicks with Old Trusty in a tent while the weather was 20 degrees below zero. And so it goes. Old Trusty is the unbeatable anyway you test it. The top notch in quality construction at a low price because it's built in the largest exclusive incubator and brooder factory in the world. So why take chances when you can be sure? Get Old Trusty at a rock bottom price and join the profit makers.

Write Today—Quick Shipment Express or Freight Prepaid

from factory at Clay Center, Neb., or warehouses at St. Joseph, Mo., or Seattle, Wash. Write at once for our book, Johnson Poultry "Know-How," and express or freight prepaid prices for one or more Old Trustys delivered to your station in double quick time.

Yours truly, H. H. JOHNSON.

THE M. M. JOHNSON CO., Clay Center, Neb.

J. G. Oelke, Raspeburg, Md., writes: "Am using the Old Trusty now four years and it is just as good as the day I received it. Am well pleased. Have hatched about 2000 chicks with it and can honestly say that I haven't lost 30 chicks in the four years."

Just one of the 650,000 satisfied owners of Old Trusty, Reader. Let me

M. M. JOHNSON
Inventor of
Old Trusty

Muckraker, are sufficiently free from sin to cast the first stone. Some of these people you seek to condemn as a class have done much for poultry culture, they have as good a right to live and do business as anyone, so long as they keep within the law of the land. I am not aware that the American Poultry Association, or Grab Much Curtis, has any right to do police duty in the poultry business or to assume the power of judge and jury. I do not recall that I have seen any of those I know among "hucksters," "string men," "day-old hatcheries," small breeders or non-advertisers, listed in the U. S. Government Weekly News Letter as being fined for adulteration, misbranding, and short measure; but I did read a certain report in the issue of Sept. 22, 1915.

And now, Majestic Dictator, where do you or the American Poultry Association get any authority to investigate poultry plants or anybody? By what right do you assume such authority and attempt to dictate how another—a competitor, if you please—shall manage and conduct his business? You know you have no legal right; even the State Experiment Stations under government management have no right to investigate farms or poultry except by invitation of the proprietors. Why should you make the American Poultry Association a laughing stock with your silly monkey tricks, calculated to befuddle those who are afraid you will "flay" them in your publications? How about the birds you are now, in 1916, advertising as "champion layers" and "world's best pens" on your farm? I have no quarrel with those or similar statements if you do not abuse others for doing the same thing. "Jealousy?" Please tell me what on earth there is to be jealous of or about? I don't care what you say or do; if you will only let other people alone, you can hammer away at me for the rest of your natural life; but it does make me weary to see you lambasting others for the very things you do yourself.

With your two papers you could do a great and good work, but it appears that you would rather make a row if you cannot have everything your own way. One has only to review the files of your papers to see that you have alternately praised and abused a good many people prominent in the poultry world. I have not forgotten how Philo was "exposed" and abused; how you visited him and saw the "dollar bills in bushel baskets" until your mouth watered and the drool ran out at the corners. And was it or was it not a chance at those same dollars that caused you to reverse yourself and fill your papers with praise of the very man you had flayed and lambasted? How about that one-time big advertiser in the West who is now getting so many bouquets; what is the reason for the flattery? Did he "come across?" Why, besides my humble self, did so many men leave you? Men who bear names well known in poultrydom: Curtiss, Cyphers,

Wheeler's Royal White Wyandottes and R. C. White Leghorns

1000 Breeders for Sale; Young and Old

Extra large snappy, vigorous birds with world of color and type. Trap-nested and bred for heavy egg production. Wyandottes bred from America's best strains. Leghorns sired by Madison Square Garden and Boston Winners.

EGGS—EGGS—EGGS—EGGS—EGGS

The pens that will produce 1916-17 winners, mated Dec. 15, and can furnish you eggs from the best matings that I have ever mated. Eggs from all pens have proved to be running very high in fertility. 1916 catalog. Send for your copy today.

Satisfaction Guaranteed.

Prices Reasonable.

ALBERT V. WHEELER Route 1, CARLINVILLE, ILL.



30 DAYS FREE TRIAL

and freight prepaid on the new 1916 "RANGER" bicycle. Write at once for our big catalog and special offer. Marvelous improvements. Extraordinary values in our 1916 price offer. You cannot afford to buy without getting our latest propositions.

Boys, be a "Rider Agent" and make big money taking orders for bicycles and supplies. Get our liberal terms on a sample "RANGER" to introduce. Tires, equipment, sundries and everything in the bicycle line half usual prices. A few second-hand bicycles \$3.00 to \$8.00, to clear.

MEAD CYCLE CO., DEPT M-265 CHICAGO

TOM BARRON

258 to 278 Egg Stock

TOM BARRON
of England spent
a lifetime develop-
ing this strain
which is now rec-
ognized as the
most highly develop-
ed egg-producing
strain in the world.
We annually import
pens of



SINGLE COMB WHITE LEGHORNS

direct from the Tom Barron Plant. Our Tom Barron pens now contain females having individual egg records of 258 to 278 eggs per year and are mated to cocks from a 232 egg hen. From these pens we offer eggs for hatching, baby chicks, early hatched pullets and cockerels at unusually attractive prices.

Rose Comb White Leghorns
A limited number of highly bred birds—pullets and cockerels—for foundation stock. Bred for egg production. \$4 and \$5 birds at \$1.50 and \$2.

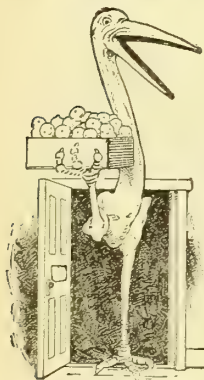
FREE BOOK Illustrated and contains full information and price lists.

SEND FOR COPY

FUNK EGG FARM

Dept. 38 Bloomington, Illinois

CHICKS



The kind you want.
Good, sturdy, pure
blood stock—

**Leghorns, Rocks
Reds**

**Wyandottes
Orpingtons**

Many are advertising
chicks—Which firm
will you select?

From customers' let-
ters—thousands of such
in our files:

"They are sturdy and strong,
not a crippled one among
them." — "Thanking you for
more than a square deal." —
"The pullets from last year
are wonders." — "I purchased
fifty and received fifty-two."
— "I am so pleased with the
R. I. Reds that I am ordering
another lot."

Tiffin Poultry Farms and Hatchery
Write for catalog—it is free. Dept. A, TIFFIN, OHIO

YESTERLAID STRAIN
S.C. WHITE LEGHORNS
BEST FOR EGGS and SHOW. Lay at 4 mo.
261 eggs 1 yr. 443, 2 yrs. Our customers
very successful. Valuable DETAILS FREE.

YESTERLAID EGG FARMS Co. Dept. E Pacific, Mo.

Bales' R. C. BLACK MINORCAS

Chicago and Springfield winners.
Eggs for hatching.

J. S. BALES Box 17, Route 2 SPRINGFIELD, ILL.

Buff Orpingtons

Eggs for hatching, grand exhibition pens; also
from range flock at \$4.00 per 100.

JOSEPH POTTINGER, Route 21, PERU, ILL.

Poultry for Fun?

No! — Leghorns for Profit, at the WHITE CITY
EGG FARM, Seville, Ohio.

Sold at Profit-Sharing Prices — write for them.

Quality Barred Rocks

Winners at Chicago Coliseum Show for six successive
years. Eggs \$5 per 15, or \$9 per 30. Write for mating
list and show record. G. A. WALKER Polo, Ill.

WOODS' BUFF ORPINGTONS

Eggs for hatching from real winners. Fifteen
years a successful breeder. Winners everywhere
shown. Mating list free.

QUALITY FARM, H. M. Woods, Carlinville, Ill.

Drevenstedt, Dryden, Dillingham, Essex,
Hare, Hale, Hewes, Pollard, Park, Pro-
ctor, Sullivan, Smith and dozens of others
whom I could name and will not.

But I don't own two papers. I'm only
an employee. I have some regard for my
readers and my publishers and I here
apologize to them for wasting so much
space on a reply to you. I cannot give you
all the pages you gave me—a "hand-
some" portrait from a condemned proof
of ten years gone by—and all that.
Thanks for the advertising just the
same. Keep right on with the good
work, my shoulders are broad and my
appetite husky—it is better to pepper
me with your bird shot than to ruin some
poor fellow's business and living.

As to American Poultry Association
advertising don't blame me. I should not
have had much to say if you and others
had not forced the American Poultry
Association into assuming a virtue it
needs but has not yet acquired. I took
a try at correction of American Poultry
Association misleading ads quite a while
ago, when the first spasm of virtue be-
gan to dawn in the association. Don't
blame me because others did not follow
when we lead. See following extracts
from 1914 AMERICAN POULTRY JOURNAL
editorials:

The American Poultry Association in its
own advertisement, and referring to itself,
says: "On its shoulders rest this gigantic Bil-
lion-Dollar Industry"; also the ad read, "The
Standard of Perfection is the official guide for
the breeding, mating and judging of all poul-
try."

Yet a prominent American Poultry Associa-
tion official advertises his variety like this:
"The _____ are the Standard by which
all other _____ are judged."

Try to reconcile the censoring committee and
the statements in last two paragraphs. May-
be censoring, like charity, should begin at
home.

(From editorial "Censoring Advertis-
ing" May, 1914, AMERICAN POULTRY
JOURNAL.)

It is all nonsense to prate of the "Billion-
Dollar Industry" resting on the shoulders of
the American Poultry Association. It does not
and never did. The statistics, from which the
estimated "Billion-Dollar Poultry Industry"
has been presumed, consider chiefly eggs and
poultry (meat and eggs) in market channels
and on farms. Of the 6,000 or more American
Poultry Association members comparatively
few have any noteworthy representation in the
statistics and there are vast multitudes of
poultry keepers outside the association (who
know next to nothing about it, or its objects)
who have more to do with the makeup of the
"Billion-Dollar Industry." Instead of swelling
up like a big frog in a small puddle and imagin-
ing that it controls the world, which to the
frog is confined to the puddle, why not make
some real effort to get out into the great
nation-wide field and to help and interest all
poultrymen. Don't build a spite fence about
the American Poultry Association puddle and
charge admission. Extend interest, promote
helpful poultry work everywhere, provide re-
wards of merit for every earnest poultryman in
the nation, inspire poultrymen, and particularly
members, with the desire to help, befriend and
encourage all other poultry keepers.

(From editorial "Narrow Law for
'Helpful' Association," July, 1914, AMER-
ICAN POULTRY JOURNAL.)

Water Even Temperature All Year Round

The Sanitary Fountain for
fowls, built like a fireless cook-
er. It keeps water cool in sum-
mer, warm in winter. Prevents
disease. Water cannot be pollut-
ed. Saves work. Increases egg
yield. Low price. Inquire at your
dealer's. Write for circular.

**ROCKFORD POULTRY
SUPPLY CO.**

Lock Box 201 Rockford, Ill.



"Improver" White Wyandottes

Chicago Coliseum Show, 1915, 1st Young
Pen, 1st Hen, 1st Pullet, 3d Cock. Im-
provers also won at the Indiana and
Kentucky State Fairs.

Indiana State Fair—1st Cockerel, 2nd
Pullet, 3rd Young Pen. Kentucky
State Fair, 1915—in a class of 133,
competing against the world's best
breeders of the Mid-West, I won 1st,
3rd and 5th Cockerel, 1st and 2nd
Pullet, 2nd Pen. My matings are equal
to any in America and if you wish to
improve your flock I can sell you eggs
that will produce results. My birds
are layers as well as winners, and an
Improver pullet now leads the club
pen at Missouri. My new catalog is
free. Eggs, \$5 per 15; \$9.00 per 30.

L. J. DEMBERGER

Box 89 Stewartsville, Indiana

Harvard Reds EGGS EGGS

**One Man's "CHANCE"
That Materialized.**

UNITED STATES POST OFFICE

LANARK, CARROLL CO., ILL.

March 7, 1916.

Dear Mr. Bean:

Last season we bought one of your
\$10 Single Comb settings and had
good success. We raised two cocker-
els and three pullets. One of the
cockerels was only fair. The other
scored 94 and the pullets 96, 94½
and 93½ by Judge Chas. McClave at our
recent show. I doubt if this 96-point
pullet has an equal in the U. S.

I am inclosing my check, etc.

(Signed) J. A. SHANER.

Asst. P. M.

WILL YOU Take a Chance?

Illustrated Particulars Free.

I. W. BEAN

324 Pond Street S. BRAintree, MASS.

CARR'S Shalbona Chief Strain Black Langshans

Champion winners at Illinois State Show,
De Kalb, 1916. My birds have won for
years wherever shown. Unexcelled for
true Langshan type, perfect combs, black
eyes, strong in back and tail shape, fine
glossy green color. I won 14 ribbons on
entry of 12 at Illinois State Show. My
circular tells you the rest. For your
name and address on a postal you get it
free.

R. E. CARR Route 1 DE KALB, ILL.

LOCK'S BARRED AND WHITE ROCKS

Winners wherever shown, including the larg-
est Mid-West shows. Special sale, eggs in
season, \$3.00 and \$5.00 per 15.
C. W. LOCK, 733 Haish Ave., De Kalb, Ill.

The Poultry "Hucksters" and Hatcheries

Not a Defense, But a Clear Statement
of Conditions and the Probable Cause
for Unjust Editorial Muckraking

THE title of Shakespeare's well known play, "Much Ado About Nothing," would be a very appropriate heading for the many pages of editorial comment devoted to the so-called "Huckster" and "Huckster Hatcheries," which have been appearing in the columns of poultry papers controlled by a man who has attempted to dictate the policy of the American Poultry Association for the past 15 or 20 years and who has succeeded in his attempts thru various methods, acting in different roles, from the weeping whipped child who wants to resign because he can't have his way, to the Czar who towers above his subjects with a lash in one hand and a fire brand in the other, crying, "Unless you do as I bid, I shall brand you a faker. My publications give me the power to do so and if I look far enough into your personal business, I will find some little ledge on which to hang and cry unto the world that you are a crook."

By these tactics he has succeeded in silencing those who would otherwise raise up and publicly revolt. We have seen letters written to honest poultrymen advising them that unless they do certain things they would receive the same treatment as those who have been lambasted and flayed.

It has been the policy of AMERICAN POULTRY JOURNAL to devote its columns to the interest of the poultry industry, to stimulate the poultry business and insure a square deal to our readers by guaranteeing our advertisers and eliminating the advertisements of breeders whom we distrusted. No comment has been made on the articles appearing in the papers referred to above, simply because controversies of this kind tend to hurt the poultry business to a greater extent than anything else could and we were under the impression that a little sanity would be shown by the publishers of these articles after the first violent attacks and that they would use their columns to better advantage.

It has reached a point, however, where we are called upon by our many subscribers to express our views and we will attempt to comply with this article, which we hope will be taken in the sense in which it is written.

We have no personal animosity toward the little Czar, no bone to pick and no one to defend. The advertisement of the first victim of this muckraking policy of our contemporary does not appear in this issue of AMERICAN POULTRY JOURNAL, not because we have found him fraudulent, but because he was

financially ruined by the publicity received regarding the matter in which the little Czar himself was not upheld by the American Poultry Association, altho he appealed three different times.

Is it any wonder that other breeders will cower and say, "Yes, my Lord, I shall not offend you, I shall not take my ad out of your paper, I shall increase my space—only please, dear Lord, do not flay me, for I want to live." Is it any wonder that another will say, "I am sending you under separate cover an advertisement to commence in your next issue and to continue until forbid," or words to that effect.

At the last meeting of the American Poultry Association in San Francisco a resolution was presented by Mr. Grant M. Curtis and adopted by the association appointing a committee of three to investigate the business methods and censor the advertising of any poultryman they see fit.

The committee was appointed and consists of E. E. Richards, President of the American Poultry Association, Grant M. Curtis, and Frank L. Platt (we understand that the latter has resigned). The association assumes the right to appoint these men to investigate the business methods of an individual and censor same. Just think what this means.

Gentle reader, suppose this committee entered your place of business and said, "Mr. —, we demand to see your books, how much money do you take in, how much money do you spend for advertising, let us see your stock, how many buildings have you, etc.," you



130
Egg Incubator
and 130-Chick
Brooder —

Natural Finish
California
Redwood

BOTH
For Only

\$10

Freight
Paid

or 180-Egg Incubator and 180-Egg Chick Brooder, Both for \$12

Wisconsin Wins in big Hatching Contests Every Year

Year after year, these unbeatable Wisconsins have proved their superiority over all other machines regardless of price. Below are a few of the record breaking hatches taken off by owners of this famous Wisconsin \$10 outfit.

30 Days' Trial — 10 Years Guarantee
— Money Back if not Satisfied

1st Year

Mrs. J. McMahon, Veedersburg, Ind., won in Missouri Valley Farmer Hatching Contest, hatching 125 chicks from 125 eggs.

2nd Year

Mrs. C. B. Armitage, Atwater, O., won in the Successful Farming Contest, getting 181 chicks from 181 eggs in two hatches.

3rd Year

Mrs. J. W. Mize, Vaughans Mills, Ky., won in the Successful Farming Contest, hatching 208 chicks from 208 eggs, 2 settings.

4th Year

Mr. F. H. Lewis, Montrose, Pa., won in Successful Farming Contest, getting 96 chicks from 96 eggs in one setting.

5th Year

Mrs. C. C. Rich, Russellville, Ind., won in the Successful Farming Hatching Contest, getting 94 chicks from 94 eggs—the first hatch she ever made.

These records prove beyond a doubt you can't get bigger, better hatches even if you pay twice the price. So why pay more?



Why Take Chances? Find Out What an Incubator is Made of Before You Buy. Send for Our Free Catalog and We Will Send You a Sample of the Material Used in Our INCUBATORS and BROODERS



Then you will know which machines are built best, which will last longest and which will give you the most value for your money. It pays to investigate before you buy. For example: Wisconsin Incubators have double walls—the outer wall is of California Redwood and the inner wall is of insulating board with dead air space between the walls. Hot water heat—double glass doors—copper tank and boiler—self-regulating. Roomy nursery under egg tray. Incubator is finished in its natural color showing the high grade California Redwood lumber used—not painted to cover up inferior material. Both machines shipped complete with thermometers, lamps, egg tester and book of directions; all set up ready for use when you get them, freight paid east of the Rockies.

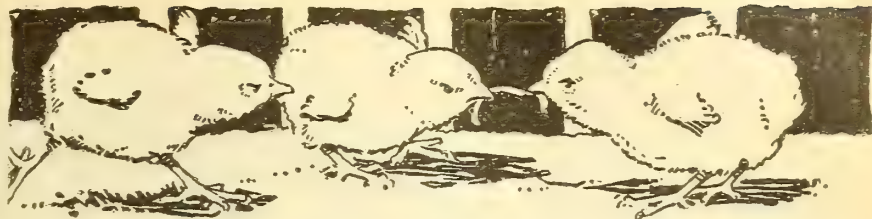
Order Direct from this Advertisement You can send in your order direct if you wish and save time. I give 30 days' trial with the understanding that if you are not perfectly satisfied write me—send the goods back and I'll return your money and pay all freight charges. I have been advertising in this paper for years. The publishers know me and know I do just as I agree. You take no risk. One good hatch will pay for the Wisconsin and more. Don't buy any other until you get our catalog. Send TODAY. Address

WISCONSIN INCUBATOR COMPANY, Box 52, RACINE, WIS.

(5)

would say, "It's none of your business"—that would settle it; but, dear reader, were you a big breeder and would give this answer, you would undoubtedly find yourself a victim of the lash of editorial comment.

What right has an individual or an unchartered association (such as the American Poultry Association is) to intrude upon poultrymen who are not even members of the American Poultry Association, simply because such poultrymen do not advertise extensively in poultry papers. Of course, the resolution does not say that the committee shall only investigate the business methods of breeders who do not advertise in certain poultry papers and we would not assume that only those breeders who do not advertise in those poultry papers would be investigated, but it would lie in the power of the committee to attempt to investigate only those breeders, were the association legally authorized to extend such a power, but thanks to our Creator, the American Poultry Association has no more right to grant that



Another Argument for

H-O Steam-Cooked Chick Feed

"WE have used a large amount of H-O Steam-Cooked Chick Feed; in fact, we have raised all our chickens this year with H-O Feeds, and find them entirely satisfactory for growing chicks from shell to maturity."

"E. P. F.", Hunts, N. Y.

The reason H-O Steam-Cooked Chick Feed brings results is because the littlest chicks can digest it. It thus removes the greatest danger in poultry raising and cuts out the loss resulting from dead chicks.

The grain elements of H-O Steam-Cooked Chick Feed are combined by experts in the proportion needed to build tissue and make healthy chicks. The feed is then *steam-cooked*. This makes the grains more digestible, and by eliminating excess moisture, prevents souring of the grain. For this reason H-O Steam-Cooked Chick-Feed prevents the frequent digestive troubles of little chicks.

Try H-O Steam-Cooked Chick Feed and see for yourself if it doesn't pay.

Write for sample, prices and descriptive booklet.

THE H-O COMPANY

Mills:

BUFFALO, N. Y.

JOHN J. CAMPBELL

General Sales Agent

HARTFORD, CONN.



First prize Buff Orpington hen Chicago, January, 1915. Owned and exhibited by Henry Scherrubel, Elgin, Ill.

power than they have of appointing a committee with the power to investigate and censor the acts of the president of our great country.

We have drifted away from the original matter which was to be discussed in this article, namely, the so-called "Huckster." In the first place the term "Huckster" is entirely inappropriate and is a word which is being misused in the various editorials referred to above. The very learned and illustrious editor has entirely overlooked the fact that according to Webster a "Huckster" is a dealer in small articles, one dealing in petty bargains, etc. In an article describing one of the so-called "Huckster" Hatcheries, he states that one of these hatcheries shipped the enormous number of 700,000 chicks in one season. This can hardly be called a petty business, altho we are willing to admit that Baby Chicks are "small articles."

The so-called "Huckster" in the poultry business is no more or less than a jobber or dealer in poultry; that is, a man who buys birds from another man who raises them, and then sells them again thru his own efforts by advertising.

Barred Plymouth Rocks



BUY your exhibition and breeding eggs from a firm that has been in the business for 25 years. No matter what you pay, no one can furnish you superior quality than we can. 34 Premiums at the Ky. State Fair and Louisville Show this past season, prove the quality of "Pope Strains."

Great Armory Show, Louisville, Ky., Nov., 1915

5 Firsts; 6 Seconds; 4 Thirds; 1 Fourth; 2 Fifths and the Grand Trophy for Best Barred Plymouth Rocks

Kentucky State Fair, September, 1915

4 Firsts; 2 Seconds; 2 Thirds; 1 Fourth; 3 Fifths

We supply cockerel and pullet bred eggs from the best winners we have and when you buy eggs from us you get the best in America to-day. Our quality is wonderful, yet our prices are the lowest of any of the big breeders. You will make a great mistake if you purchase before getting our mating list and catalogue. Send for catalogue No. 3.

POPE & POPE, Box A, LOUISVILLE, KENTUCKY

THE EASIEST WAY TO KEEP UP IS TO BE A LITTLE AHEAD

"Golden Rod" Buff Orpingtons

will put you ahead in the show room or laying contest. Our record at the National Egg Laying contest has never been equaled by any Buff Orpington breeder.

Stock for sale. Eggs for hatching. From our Peoria, Springfield and Quincy winners. Prices reasonable. Satisfaction guaranteed.

Route 15

R. M. SEWARD, Lewistown, Ill.



"CLUCK-CLUCK"
THE HEN'S CALL FOR
CRYS-CO. The Universal Favorite
HARD, SHARP AND CUBICAL
YET SOLUBLE GRIT.
99% PURE CARBONATE OF LIME.
IN A CLASS BY ITSELF Not to be confused with common Limestone and Marble Grits, which are soft.
ASK YOUR DEALER
W.A. NEUSITZ CO.
DEPT. C ST. LOUIS, MO.



MORE EGGS
BETTER THAN OYSTER SHELLS
LESS COST



A view of some of the open air poultry houses on Rock Ledge Farm, Southboro, Mass.

The average "Huckster" shuns the poultry papers. He advertises in farm papers and in magazines, thereby reaching a class of people who do not know what the Standard perfections of a prize winning bird are, and a good many of them do not even know there is such a thing as a poultry show or a poultry paper. The "Huckster" publishes a catalog in which he shows pictures of the various varieties of poultry—the prospective customer takes a liking to a certain variety—the prices are very low and he sends in his order, which is promptly filled by the "Huckster," which ends the transaction. Where is any fraud committed? What right has an editor to try and call such people frauds when he himself is connected with a company which deals in poultry in like manner thru its chain of stores that demand higher prices than these poultry "Hucksters?"

This "reform" movement on the part of the gentleman referred to reminds us of the old chestnut about the prohibitionist leader who carries a "loaded"

cane or a flask in his hind pocket and also the well known saying "people living in glass houses should not throw stones."

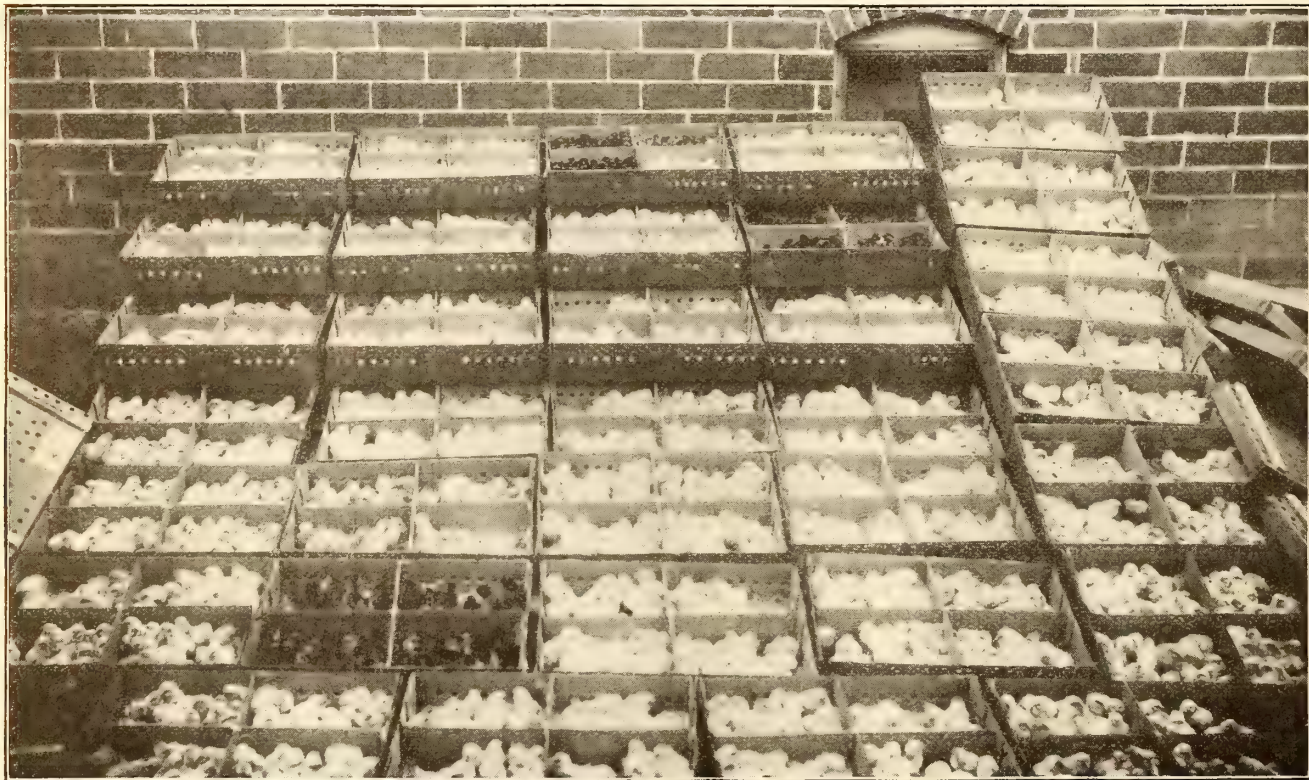
We do not wish to convey the idea that the man referred to is not dealing honestly by selling such birds in his chain of stores. In fact, that is honest business, but he is not honest with his subscribers and readers, when he tells them that the other fellow is doing a dishonest business along the same lines.

If you send \$2.00 or \$3.00 for a bird of a certain breed, what do you care whether that bird was raised on a certain track of land belonging to the party from whom you bought the bird or whether he was raised three miles from that place, as long as the bird was of the variety you desired and fulfilled the requirements of your order. The so-called "Huckster" does not tell you that he is selling you prize winning stock. He sells you stock of a certain breed and not exhibition quality.

It would be a nice state of affairs if every milk dealer would be obliged to

own his herd of cows, if every dealer in merchandizing would have to own his factory to manufacture the various articles he sells, etc. When you purchase merchandise of any kind you do not care where the goods are manufactured as long as it meets with your requirements. If you purchase a horse you do not care where he was bred and raised, you do not care what herd of cows the milk for your breakfast table comes from as long as it is rich and pure; then why should poultry be an exception, unless you are buying for exhibition purposes or buying birds which have won the ribbons at certain poultry shows. Such birds are sold by specialty breeders and not by the poultry "Huckster."

We do not in any way mean to place the "Huckster," or, rather the jobber or dealer in poultry, on a pedestal or to place a halo on his head, but the many attacks which have been launched against these dealers has caused a certain feeling of distrust in the eyes of many people who were contemplating entering



Part of a shipment of 3,600 chicks shipped to Wisconsin in 1915 by The Uhl Hatchery, New Washington, Ohio. This large shipment arrived in splendid condition and not a dead chick in the lot.

the poultry business and the result is that they have kept away rather than take chances of falling a victim of such unscrupulous frauds as those who sell Wyandottes for Wyandottes, Plymouth Rocks for Plymouth Rocks, Leghorns for Leghorns, Orpingtons for Orpingtons, Minorcas for Minorcas, etc., etc., and to think that they don't even raise the birds on their own place.

It has been charged that these jobbers have harmed the fancy poultry business. How? By furnishing fair stock at fair prices? By supplying the wants of the beginner who could not afford to pay more? Or by not advertising heavily in poultry papers? Surely there is no harm in supplying fair stock at fair prices. True, a few of the people who bought would have bought better stock if they could not get any other, but a good many more would have backed down and would not be counted among the breeders of today.

It is a well known fact that the average man starting in the poultry business wants to do a little experimenting. He wants birds of a certain variety at the lowest possible price and he improves the quality of his stock by purchasing better birds from a specialty breeder. Therefore, instead of being a detriment to the industry, these dealers in poultry are in reality an asset, inasmuch as they get the people started in the business. So much for the poultry "Huckster." We have stated the facts just as they appear to us and you can draw your own conclusions. As to the "Huckster Hatcheries," this misnomer has been given to institutions operating Mammoth Hatching machines or many large incubators. They purchase eggs (usually under contract) from various breeders of certain varieties of poultry in their vicinity. Each variety is kept separate. The chicks are hatched and sold without "pedigree," but true to variety. What crime is committed? Why should a legitimate business as that be condemned simply because an editor is interested in manufacturing smaller incubators, any more than the "Huckster" should be condemned by an editor who himself causes various varieties of poultry to be sold by a firm of which he is the financial head?

The publishers of AMERICAN POULTRY JOURNAL take pride in the fact that its columns are clean and free from personal grievances, but we believe it time to call a halt to the muckraking methods employed for personal gain and personal glorification of the self styled "Seventh Reincarnation of Napoleon."

(Extract from the Chicago Evening American, March 15, 1916.)

FEW KNOCKS AT THE KNOCKER.

If you are a man without faults, perhaps you have a right to shy rocks at the glass house of the other fellow.

But we never knew such a man, and you are no exception.

Getting down to brass tacks, what comfort can you get from knocking?

It won't be peace of mind: that much is dead sure.

What is there in this world which will take the place of the comfortable feeling that you have given every man the square deal?

The man who gets the most out of life is the one who puts the most into it. It may be money; it may be good-will; but you reap what you sow.

The one who can look every other man squarely in the eye and feel and do right by his fellows is the one who has the good, wholesome smile.

Envy is almost always at the bottom of the "knocker's rap."

Give up knocking and cultivate peace of mind.

Our Breeders ^{are} in Full Lay

AND WE CAN FILL ORDERS THIS MONTH FOR

Eggs for Hatching

FROM

ANCHORAGE FARM STOCK

Bred-to-Lay

Bred-to-Pay

All good quality, large sized, healthy, vigorous, mature breeding birds. All open-air housed. Certain to yield strong, sturdy chicks. Fertility is good. Chicks have livability. Big values at a price you can afford to pay.

S. C. White Leghorns

Combine the best in American and English blood lines. Lay large sized white eggs and keep everlastingly at it. Certain to please you and sure to fill the egg basket.

White Plymouth Rocks

Big, healthy, vigorous specimens of the Lay and Pay kind. Big producers of fine, large, brown eggs. Bird for bird they are equaling the Leghorns in egg production.

HATCHING EGGS from either of above varieties, \$2 per fifteen; \$5 per fifty; \$9 per hundred.

Order now from this ad. We have no circulars or catalog and for that reason you do not have to pay for such literature in extra price on eggs. Prompt shipments this month. Cash must accompany order.

THE ANCHORAGE FARM

DR. P. T. WOODS, Proprietor

Lock Box 4

SILVER LAKE (Plymouth Co.), MASS.

EGGS

Single Comb White and Brown Leghorns
Single and Rose Comb R. I. Reds
Black and White Orpingtons
Barred Plymouth Rocks—White Wyandottes

\$5.00



Our pens contain winners and descendants of winners at Chicago Coliseum, Indianapolis, Springfield, Quincy. Every pen mated by a specialist. Varieties all on separate plants, and possessing superb quality and vigor. If you want that kind, write us.

100% Fertility Guaranteed

Every egg fertile. If they are not, we replace the clear ones free! You get all you buy and our show records justify you in expecting prize winners. Our catalog tells all about our winnings and our stock. Write for it—or order eggs from this ad. Quality counts with us—does it with you?

Quincy Poultry Farms, A-2700 Maine St., Quincy, Ill.

BABY CHICKS and EGGS for 1916

AT LIVE AND LET LIVE PRICES

Bred-to-Lay S. C. White Leghorns Exclusively

Eggs before May 1st, \$3.00 per 15; \$12.00 per 100; \$50.00 per 500. Day-old Chicks, April hatch, 15c each; May hatch, 13c each; June hatch, 10c each. Place your order early.

H. S. HARTZMAN, 1125 13th Avenue, MOLINE, ILL.

INNISKA WHITE ROCKS WIN AGAIN

Have established wonderful records at Illinois State Show and others. Nearly a clean sweep at Illinois State Show this year, winning nearly every prize and best display. Eggs, \$3.00 and \$5.00 per 15. Satisfaction guaranteed.

S. A. TYLER,

West Lincoln Highway,

De Kalb, Ill.

Powers' White Wyandottes

BABY CHICKS FOR SALE

J. H. POWERS, Poultry Yards,

Hatching Eggs
From Prize Pens—\$5 for 15.
From Select Pens—\$3 for 15; \$15 per 100
From Utility Pens—\$2 for 15; \$9 per 100
7920 Bennett Avenue, Chicago, Ill.

Horticulture for Poultry Keepers

Conducted by Thos. F. Rigg, Iowa Falls, Iowa.

WE ARE still in Florida and enjoying every minute of the time. This week the county fair has been a big and very interesting attraction. The display of citrus fruits is the best I have ever seen. The display which most interests me is that made by the school canning clubs of the county. In this I find the children have to show all vegetables grown here, and also jellies, preserves, marmalades, etc. The thousands of visitors from the North are buying these jellies, etc., and prize them very highly. This suggests the thought that the vegetable and fruit growers in this

country are neglecting to take full advantage of this opportunity. It does seem that here in Miami, there should be a large canning factory to take care of the surplus crop and thus convert it into money. The school girls who prepared all the goods shown in the display were grouped in front of the booth one day of the week. As I looked upon them and their handiwork, I said to Mrs. Rigg: "I wish Mrs. Woods of the A. P. J. staff was here, for what a human interest story she could make out of all this."

There are several hundred head of

Standardbred fowls in the exhibition. I have been attending the fair each season for six years, and have noted a great improvement each year in the quality of the stock shown. This season I found some magnificent specimens in Barred Rocks, White Leghorns, Black Langshans and Rose and Single Comb Black Minorcas. In all it was a very creditable exhibit. The breeders here are nearly all men who have recently come from the North and knowing what good stock is, propose to have that kind only.

* * *

I am interested in Florida and seeing your kind offer in American Poultry Journal, I am writing you.

A local firm who seem reliable have some land near Pensacola—about eight to ten miles north of that city. They say it is high and dry and good growing land, also good for poultry.

Now since there is lots of poor land in Florida and as I am now situated, it will be impossible for me to go and see the land now. Do you think it would be advisable for a man to invest in ten acres there with intention of having a poultry and fruit farm.

I have a fine flock of pullets here and have been very successful raising chickens and vegetables.

Any information as to the locality mentioned or the market conditions will be gladly received,
Fred C. Rogers,
Michigan.

I want to strongly advise Mr. Rogers not to buy land north of Pensacola for the purpose he desires land. That section of the state is subject to frost and a fruit crop there is very uncertain. This season has again shown us pretty conclusively that the frost line in Florida is not far from the Miami river. During February there was some pretty cold weather down here. There were several killing frosts in the central part of the state and a freeze in the north section of the state. Of course the fruits and vegetables in those sections were injured and in some cases destroyed. Yet the northern papers are carrying advertisements of lands for sale in those parts of the state, the promoters stating that it is a safe and profitable business growing vegetables and fruits on these lands. Year after year frosts visit those sections of the state, but the dishonest land promoters keep up their selling campaigns. And they are annually ruining a large number of Northern people, who invest in these lands. It is a great pity that our government does not go after these promoters. Even here in Dade County, where frost has never yet injured the fruit crop, but has done much damage to the vegetables, the growers kept their overhead spray system going for several nights, as there was every reason to believe frost would

Which way do you work your garden?



The old
back-breaking
way?

OR

The easy
Planet Jr
way?



The Planet Jr way takes the drudgery out of labor, and produces bigger, better crops. Planet Jr tools are the greatest time-savers ever invented for farm or garden, and the most economical cultivating tools you can use.

No. 4 Planet Jr Combined Hill and Drill Seeder, Wheel-Hoe, Cultivator and Plow pays for itself in a single season in the family garden as well as in larger acreage. Sows all garden seeds (in drills or hills), plows, opens furrows and covers them, hoes and cultivates easily and thoroughly all through the season. We make 32 styles of seed-drills and wheel hoes—various prices.

Fire-Fly Garden Plow is especially useful to owners of small gardens, and to chicken-raisers for plowing up scratching-yards. Its light weight makes it easy for man, woman, or boy to use. Enables the owner of a family garden to do all the work in spare minutes.

New 72-page Catalog (184 illustrations) free!

Describes over 70 tools, including 12 entirely new ones, and improvements to our Seeders, Wheel-Hoes, Horse-Hoes, Harrows, Orchard-, Beet- and Pivot-wheel Riding-Cultivators. Write postal for it today.

S L Allen & Co

Box 1107T

Philadelphia

Poultry Fence

24¢
A ROD

KITSELMAN POULTRY FENCE is made of Open Hearth Basic steel wire, drawn, annealed and galvanized in our own mill. A strong, durable, closely-woven, RUST RESISTING FENCE that will last for years, requires fewer posts, no base board or top rail. NOT A FLIMSY NETTING BUT A POULTRY FENCE. Stretches perfectly and stands up on the posts like a farm fence—does not sag, bag or buckle. You can't beat Kitzelman Fence for quality, and it's Shipped From Our Factory

Direct to You and Your Neighbors Too

Our big free Catalog shows many styles and heights of Poultry Farm and Lawn Fence at prices that will keep a nice saving in your own pocket where it belongs. It tells how we make wire, why it's better and why Kitzelman Fence is the most economical fence to buy. Write today for Catalog of fence bargains.

KITSELMAN BROS. Box 295 Muncie, Ind.



Trees
Shrubs
15 to 18 in.
Roses
Second Size

Everything needed to beautify your home and garden, direct from Nursery at one price, 10c. One million fruit and ornamental trees (3 to 4 ft.), shrubs and vines, to be sold under guarantee of first-class stock, true to name, free from disease, or money refunded without question. We can give highest bank references. Illustrated catalogue listing our big variety, and nothing over 10 cents. FREE.

Ten
Cents
Each

POMONA NURSERIES, 133 GRANGER AVE., DANVILLE, N. Y.

fall. The thermometer got down to 43 degrees. Fortunately nothing was injured, but it gave the growers a scare. I want to again warn readers of the A. P. J. to make a thoro investigation of Florida lands and conditions before investing dollar in land here.

* * *

I had the pleasure the other day of meeting A. T. Fort, of Mt. Airy, Ga. Mr. Fort is the originator of the Fort seedling apple, which was awarded the first prize as the best apple grown in the South, at the National Apple Show in 1914. Mr. Fort is adding to his apple orchard in Rabun County, Georgia, and will have about 150 acres in all. He has demonstrated that sweet cherries can be commercially grown in the Georgia mountain land. I have asked Mr. Fort to give me an article telling of his work as a pioneer orchardist in his state and the same will be given to A. P. J. readers in this department.

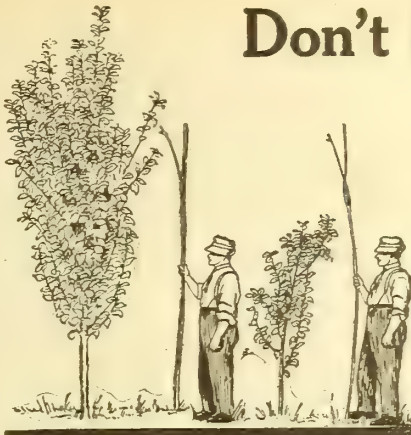
* * *

In a letter received from Dr. Prince T. Woods is the following:

"Note the trouble that Florida truck growers have to get potash. I don't know the conditions on Florida coast, but I always supposed that kelp, gulweed and other sea weeds were plenty in tropic seas. If so should think that some enterprising American would get busy. Sea weed will put potash into the soil if it is used plain as fertilizer. If it is properly prepared it will yield a lot of cheap potash. Here in our Plymouth county sand the early settlers learned from the Indians to use fish (raw cod, hake, herring, etc.) and kelp and other sea weed for fertilizer and it works well to this day. Even so, thousands of dollars worth of this sort of fertilizer is wasted every year on the Massachusetts coast and allowed to rot and stink up the beach. In Rhode Island the farms were laid out on the Sakonnet river with just so much salt water river front each, because in those early days the privilege of collecting sea weed for fertilizer was considered a valuable farm asset. We learn slowly in this world. Yet, on the Pacific coast cheap potash is now being extracted from seaweed and there is probability that the industry may develop now German supply is cut off."

Yes, "we learn slowly in this world." This statement is verified here every day. Thousands upon thousands of tons of seaweed are washed ashore every day and it is left to decay upon the sands. I have seen but few instances where this valuable fertilizer was being saved. It is a shame that this great waste is allowed to be. On every hand I see grape fruit and orange groves suffering for an application of potash while here on the shore of the ocean tons upon tons of seaweed, rich in the very element the trees are needing, is being wasted without a thought as to its value. Not only this, a large amount of fish which is not fit for human consumption, is brought in each day by the thousands of visitors who go to the ocean fishing grounds. These fish, such as sharks, porpoises and the like, are exhibited by the successful fishermen at the wharf for a few hours, when along comes the city health department boat, which carries these fish out to sea and drops them. This means that each day several tons of valuable fertilizer is being wasted. You ask why will the fruit and vegetable growers here pay the high price for fertilizers and at the same time allow to go to waste this vast amount which they could easily obtain. I cannot answer that question here because the words I would use are not the kind admitted in the columns of the AMERICAN POULTRY JOURNAL. I suppose in time the seaweed and the fish here will be used by the farmers, as they should be used. If this were the only waste going on, for which the farmers

Don't Pot Your Trees



Drawn from actual photo.—Note marked difference in growth between tree planted in blasted hole and tree planted in spade-dug hole.

Practical Proofs

E. J. BARKER, Beech Bluff, Tenn., says: "I would not set trees without first subsoiling with explosives, even if it cost four times the amount."

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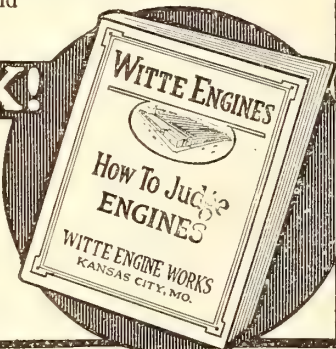
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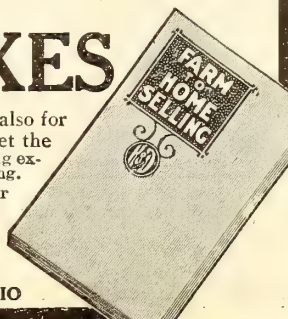
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of the country are responsible, the case would demand more attention. But the Northern farmer is as wasteful as his Florida brother, in his own way. I was out riding the other day and saw something which really annoyed me. It is foolish to become annoyed at anything in this world, and doubly so when one has no way of setting things right. We were passing by a large vegetable farm. The grower had finished picking the beans on a five-acre tract. He raked the vines to one corner of the field, pulling them off the cultivated land, and deliberately set fire to them. How I did itch to get out of my machine and tell that man he was destroying a whole lot of plant food and humus, that he should have plowed under every pound of these vines and thus enriched his land. But I did not get out and deliver the message. I have received some pretty hard knocks by trying to advise people and I am a little shy as to doing it now. So it goes in every farming section of the whole country. Yes, Dr. Woods, "We learn slowly in this world."

* * *

Have you ever eaten a tangalor? No? Well, then, you have missed something worth while. It is a fruit having the appearance of an orange. It is a chance seedling found in Dade County, Florida. It is supposed to be a cross between an orange and a grape fruit and is a most delicious fruit. People like it better than they do the best oranges. I was out to the experimental fruit farm of Dr. E. B. Teller the other day and ate some of this fruit direct from the tree. There are but a few of the trees now in fruiting and the fruit is seldom found in the Northern market, but if you have the chance to buy some of this fruit, do so. Dr. Teller is located down in the red clay soil section and has established the fact that all this red clay land needs in the way of a fertilizer is a crop of cow peas turned under each season. Dr. Teller is doing a grand good work for the fruit growers of the state. It is a labor of love with him and he is getting a great deal of pleasure out of the work.

* * *

W. W. McCloud, Ind., wants to know if he would be justified in planting a ten-acre apple orchard of early Summer varieties, the fruit to be sold in Indianapolis and nearby towns. Mr. McCloud should know conditions there better than I do. I think he would be able to dispose of the product of a ten-acre orchard of Duchess, Yellow Transparent and Henry Clay apples, but if the markets there are glutted with early apples, as are most markets, he will find it hard to get good prices for his fruit. I would plant largely of Henry Clay. It is the earliest good apple and it is an apple of superior worth and a good looker. The tree is hardy and an abundant bearer. If he can get this apple into the Indianapolis market he can command a big price for his fruit, for it will be on the market before the Duchess and Yellow Transparent appear. I am often at a loss to understand why this most profitable of all early apples, and the earliest of all, is not more generally planted. I think in most sections a small orchard of this variety would be a very profitable investment.

* * *

Was out to the farm of a potato grower the other day, and on that day he was receiving \$2.40 per hamper for his new potatoes—a hamper holding

three pecks. Pretty good price, is it not? Yet this grower has his trouble and his years of failures, as do all growers, whether in Florida or elsewhere.

* * *

I was very much interested in reading your recommendations of Virginia for farming and fruit growing as I have been thinking for some time of purchasing land down there with the idea of raising poultry and fruit. Will you please give me some advice on this subject?

Is Virginia suited to poultry raising considering soils, climate, and markets? What part of the state is best for such a combination? Why is land so cheap down there? And is any other of the southeastern states more favorable for poultry and fruit?

There seem to be very few poultry raisers in that part of the country, but whether it is due to the country or just to the fact that it hasn't happened yet, I cannot find out.

I should also like to ask you what kind of a spraying outfit you would recommend for back lot poultry and fruit raisers. Of course it must be a hand power machine, but should I get a direct acting type or a compressed air machine with a tank, and in the latter case would a galvanized tank do or would you get a brass one? I want to use it also for whitewashing poultry houses.

Chas. C. Cobb, Jr.

Yes poultry raising is a very profitable industry in Virginia. The soil is all

right in all parts of the state. The climate is favorable and the poultry and egg producer there has good local markets, and is near the best markets in America. The Piedmont and Valley of Virginia, better known as the Shenandoah Valley, are very favorable sections for this industry. I think I would rather favor either of these locations to one in the Tidewater portion of the state where the Summers are much warmer. However, the business can be made very profitable in the Tidewater section. Of course the Tidewater section is out of it as a fruit section. It is on the elevated lands and mountain sides that the profitable apple orchards are found. Here the bloom is not injured by frost as it would be in the low-lying Tidewater section. Virginia is more favorable as a fruit and poultry state than any of the far Southern States. Tennessee, North Carolina, Northeast Georgia and South Carolina also have some wonderful fruit sections. My correspondent is mistaken in his belief that poultry is not produced in large numbers in Virginia. Why is land so cheap in Virginia? Good, improved farms may be cheap, but they

are not low in price down there. It is true that excellent fruit land may be obtained for what is a cheap price in comparison with the prices governing Illinois land. This is because immigration seems to travel on east and west lines. Then, too, the war of 1861-65 left the people of Virginia very poor. This is the chief reason why lands can still be bought there at prices most attractive.

There are many makers of spray outfits, such as my correspondent says he will want. The ten-gallon two-wheel hand outfit is a most practical one. Do not get a barrel outfit unless you arrange to have it hauled by a horse. With the ten-gallon tank size, such as I refer to, you can do excellent work. It is a one-man outfit. Do not get a compressed air machine. I have never seen one which was satisfactory.

* * *

A few days ago I went out to see the picking in a 600-acre tomato field. It was an interesting sight. There were about 200 negroes at work. The fruit is picked green and ripens while on the way to the market.

Are You Getting 24 EGGS Per Month Per Hen?

If not this Spring, why not?
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Here is a feeding plan we know from long experience will surprise you at the increased egg yield it will produce. Go to your dealer and get a sack of **Schumacher Scratch Grains**. Feed in the morning, five or six quarts to each 100 hens, scattered in litter that is a foot deep. At noon give them 3 or 4 quarts of sprouted oats (dry) and keep Schumacher Mash Feed in the hopper all the time. At night give them 10 or 12 quarts of Schumacher Scratch Grains. Don't let them go to roost hungry. See that they have plenty of clean, fresh water at all times. Keep this up regularly for 30 days, giving attention to housing, range, etc., and you will soon be getting two eggs where there was only one before.

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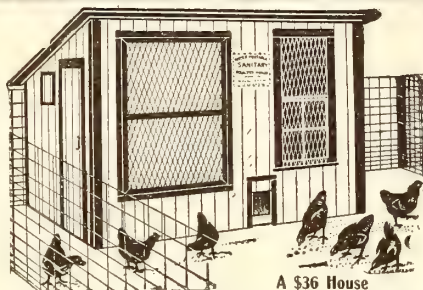
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No. 19, Style "A", 6-ft. 3-perch complete Potter hennerly outfit for 36 hens. This same style made in 12 sizes.



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F. E. Harrison, Menominee, Mich., writes inquiring what I think of "Rhode Island Red Booster Month." I think it is a good thing and hereby comply with Mr. Harrison's request to say what I feel in that regard in this department.

I am in love with the Rhode Island Reds, and do hope that every other lover of the fowl will take advantage of the situation and boost hard during "Booster Month."

* * *

"Are you breeding the Houdan? If so will you kindly write me about the breed. It seems to me they would be the birds for this cold climate. I am trying to improve my poultry and would be glad of any information you can give me about this breed. Wisconsin. J. R. Mathewson.

The Houdan is a fowl unsurpassed as a market fowl, and I think a well marked, correctly shaped Houdan the most beautiful fowl in all the world. I fell in love with the Houdan when a boy, away back in 1874, and there has never been a day since then that I have not had a flock of these fowls. I have none for sale. My correspondent will



Second White Wyandotte pullet at Boston, 1915. Owned by Willow Tree Poultry Farms, Beverly Farms, Mass.

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**RED
SUSSEX**



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THE COLDER THE DAY THE BETTER THEY LAY

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Are NOT the "best" in the U. S., but they have held their own in competition with the "best." Satisfied customers is my motto. Stock and eggs sold at prices that are right, with a guarantee of satisfaction. No price list this season. Write

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Howison's Buff Wyandottes EGGS FOR HATCHING

START RIGHT, get eggs from pens headed by blue ribbon winners at Frisco and Chicago. Fertility running high. Send for egg circular. A few cockerels for the late buyers.

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SANDWICH, ILLINOIS

START RIGHT WITH Single Comb White Orpingtons

A few cockerels left. Eggs \$3.00 and \$1.50 per 15

CHAS. M. CRANE

ELKHORN, WISCONSIN

RIKHOFF'S SINGLE COMB BROWN LEGHORNS

Repeat again at the quality show, Chicago Coliseum, Dec., 1915. In competition with the best in America and Canada, I won cocks 2-5, hens 2-3-4, ekl. 1-4, pul. 1-3-5, pens 1, and first pullet-bred ekl. At Indianapolis, Jan., 1916, all 1sts and 2nds. At Indiana State Fair, 1915, five firsts. First prize winners at Madison Square and many other shows. If you want to breed winners you must come to headquarters. Mating list free.

H. F. RIKHOFF, 527 Occidental Building, INDIANAPOLIS, IND.

find the Rhode Island Red or the White Wyandotte far better suited to his purpose than the Houdan. The Houdan, despite the claims of some who are breeding them, are not a general purpose fowl for the farmer in cold Wisconsin. They are not, as a rule, heavy Winter layers. I think my Wisconsin friend will make a mistake if he attempts to build up a flock of Utility Houdans in Wisconsin.

* * *

When these notes are being read by members of the A. P. J. family I will be busy out in the garden and orchard at home. It is all very nice down here in Florida, but I am getting anxious to be back home with all the things I love so well.

* * *

I always read with interest your items on Horticulture in A. P. J. and often wonder in reading your advice if anyone has ever called your attention to this part of the country in regard to fruit production. Henderson County, Kentucky, has proven in the last few years that no better apples are produced anywhere than here. Stayman's Winesap, Arkansas Beauty, Rome Beauty, Delicious and other good varieties are produced in this county with flavor not found elsewhere, and within the last few years wherever shown have always taken first premiums—Kentucky State Fair, Ohio State Fair, Missouri State

Fair, Pan-American Exposition and many others. They have always been in the money. This county has hundreds of acres of the finest fruit lands on earth. Deep, rich, red clay subsoil that certainly puts the right flavor under the skin.

Now we do not claim to produce a perfect outer color as is found on the apples grown in some of the far western states, but in flavor and quality we do produce a superior apple. Good fruit lands here can be bought for \$60 an acre, with coal and mineral rights worth \$20 per acre. W. J. La Rue.

Mr. La Rue is one of Kentucky's most prominent poultrymen and is deeply interested in fruit production also. I am glad to get his letter. I like to have a man proclaim the merits of his own section and hope to receive reports of this character from A. P. J. readers in all the really good fruit sections of the country. There are many thousands of men in the towns and cities who are anxious to get hold of lands at fair prices in sections which have been proved fruit sections. It is a pity that so many fraudulent companies are allowed to operate as they do, selling lands as fruit lands which are wholly unfit for fruit production. Such lands are being offered in nearly every state in the union. I can endorse what Mr. La Rue says of Henderson County, Kentucky.

* * *

The damage by frost in Florida during the month of February extended to a point not far north of Miami. Yet there are several companies taking pages of advertising space in the farm and fruit journals, telling people that the section around Jacksonville and to the south is one in which the vegetable and fruit grower can become rich. And Northern people are buying these lands without first investigating and are pouring down by the hundreds to make homes on these lands. Failure and disappointment for all, and ruin for most of them is to be the result. Again let me say to A. P. J. readers, do not buy an acre of ground in Florida (or anywhere else) before making a personal inspection of the land.

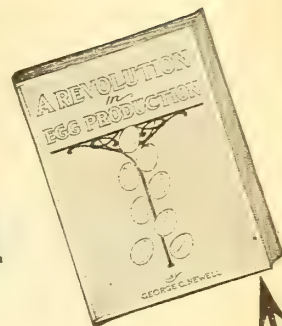
* * *

In answer to P. C. Tower, Wisconsin: Yes, I am confident you can make money producing currants and gooseberries. But why do you figure on shipping these fruits to St. Paul and Minneapolis when you have a town of 12,000 people at your very door? It will require the product of several acres to supply the local demand for your small fruits. This will be a profitable market. Get busy and cultivate this home market. Downing gooseberry will be all right for you to plant. Make your currant planting largely Diploma and Red Cross, with a few Wilder for the late season's trade. The fruit will hang on the Wilder in good condition until very late in the season when all other currants are gone.

* * *

When you receive the fruit trees which you will plant this month, place their roots in a mud hole for ten to twelve hours. Dig a ditch, put in the trees, and throw in dirt and water. This treatment is a good one, for it softens the roots, and refreshes the whole tree, in consequence of which the tree will make a far better growth than if planted at once or if the treatment is not given the tree. By this treatment the roots start to grow before he leaves are brought out by the warmth of the air. Any tree which starts foliage growth

A Revolution in Egg Production



is the title of a new book by George G. Newell, just from the press, and its name states exactly what it is: A Revolution in the Methods of Securing a Large Egg Production, and

IT WORKS!

Mr. Newell leaves nothing to theory or imagination—he gives all the “whys” and “wherefores”—the cold figures and plain facts—he is a hard-headed business man himself—of just what this system will do and why it does it. He not only supplies detailed knowledge of how to care for poultry, but also gives the reader something in the way of a post-graduate course, and, besides all this, he brings forward subjects which, to our knowledge,

Have Never Been Taken into Consideration Before

This is not a book for beginners. This is not a book for past-masters. It is a book for every man, woman or child who keeps poultry for pleasure or profit, because it not only carefully analyzes the already well-known factors of heredity and environment, but takes up the heretofore un-

explored subject of lengthening the hen's working day in the Winter, when the egg yield is lowest, and shows that by application of the **new principles** laid down in this book you can secure a much larger egg yield.

The first 12 days after trying his new system

Mr. Newell Increased His Egg Yield Over 100 per cent

and he keeps it up. He received an actual percentage of 43.52 of an egg per hen per day during a very cold February. Other poultrymen are using this system with success—friends to whom Mr. Newell has explained it verbally, and it is now offered to you in a **handsome, illustrated cloth bound book of 112 pages,**

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AMONG THE SUBJECTS COVERED IN THIS BOOK ARE

Chapter I—Feeding and Care—Care and Feed in General; Balancing the Ration; Conditions Should be Watched and Noted; What to Feed; Under Feeding; Over Feeding.

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Chapter VI—Remarkable Results—The Problem

Solved; Production Records for 1914-1915; Longer Days Effects on Health and Vigor.

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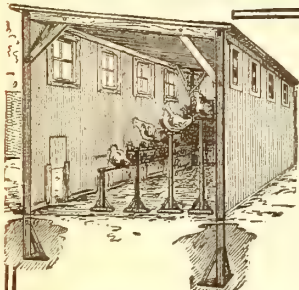
A SATISFIED CUSTOMER.

M. Uhl & Co.—From the 50 baby chicks bought from you I won seven prizes and a handsome silver loving cup for best display on an entry of thirteen of your birds: 2nd and 3rd cockerel; 2nd, 3rd and 4th pullets; cockerel 2nd pen, and four pullets 3rd pen. I am highly pleased to recommend your concern for this high quality and the fairness shown me. Respectfully yours.

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Carbo Units

are best for supporting chicken houses, garages, sheds or other buildings.

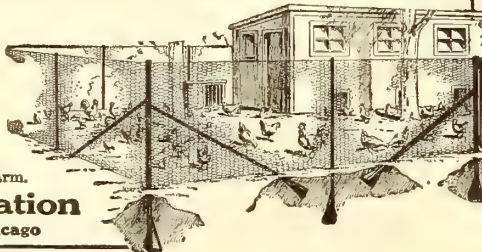
Just set in earth. Life ten times that of wood. For supporting fencing between terminals, use Carbo Spring Supports.

Write for Catalog 16, which tells about Carbo Units and their 101 uses about the farm.

The Carbo Corporation
401 Rand-McNally Bldg., Chicago

Carbo protects life and health

Use Carbo Units to support your poultry yard fence, and have a fence that is vermin, filth, dirt, moisture and disease proof. No wood to gather dampness and rot. Three Carbo Units make a fence corner that will outlast the fencing wire. One man can set this corner in a half-hour. Carbo sets in earth—no concrete used. Less expensive than wood, concrete or semi-steel posts.



Forest Hill Poultry Yards Quality White Plymouth Rocks

Eggs, Fertile Eggs. 100 Per Cent Fertility Guaranteed.

Pens 1 and 2, extra good exhibition birds; eggs, 50 cents each. Pens 3 and 4, good exhibition birds; eggs, \$5.00 for 15, \$8.00 for 30. Pens 5, 6, 7 and 8, exhibition birds; eggs, \$3.00 for 15, \$5.00 for 30. You cannot buy eggs from any better stock at the above prices anywhere. All unfertile eggs replaced free if they are returned express prepaid within 15 days from receipt of them. Our birds have been prize winners at the leading shows for ourselves and customers. Order direct from this advertisement and save time. Mating list free. Send your order now—don't delay. Address

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43 Varieties

MISSOURI POULTRY & SQUAB CO.

Poultry, Squab-breeders, Fancy Pigeons, Ducks, Geese, Pea Fowl, Pheasants, Wild Game, Dogs, Incubators. Feed and Supplies. Handsome catalog in colors free.

Dept. R

KIRKWOOD, MO.

before the roots start action is not growing as it should and will never recover from the bad effect thereof.

* * *

Beautify the home grounds with shrubs and hardy flowers. It will prove a paying investment.

* * *

I am interested in Florida and I am advised by my doctor to change climate. As I am a poultryman and a subscriber to A. P. J., I would be very grateful to you if you will bother to answer my numerous questions. I would like to know if Florida is a very healthy state for poultry raising. Also how are the markets, that of the price of eggs and poultry at different seasons? Which is preferred, the brown or white shelled eggs? What is there to the talk about the sand flea and does it bother old or young stock, at certain seasons or at all times? Also about the average price of grain at retail, oats, wheat, etc. Which is the best time to hatch chicks there for layers? Do they grow any apples at all in Florida? George Teague, Illinois.

In answer to Mr. Teague will say that when properly cared for poultry is as healthy here as in other sections of the country. No live stock can have the vitality and "the get up and get" here in this semi-tropical country possessed by stock in the Northern states. It is just so with the people who remain here year in and year out. While it does not get any warmer here than it does in the Northern states in Summer, it is the long and continuous pull on man and beast and fowl that takes the tuck out of them all. The markets in Florida, for eggs and poultry, are not such as to appeal to the man who desires to conduct a large commercial plant. There are no big cities in Florida and but few large towns. During the Winter months when hundreds of thousands of Northern people are here the hotels in the tourist towns take large quantities of eggs and poultry, but this is for three months' time only. Price of strictly fresh eggs today (February 26th) in Miami is 55 cents per dozen.

It is necessary to fight the sand flea and many other insects which annoy fowls, and especially chicks. But this can be successfully accomplished. It is only in the Summer season that the insects are bothersome. Prices of grain and other food stuffs vary here as elsewhere. Have watched this closely for six years and find that prices here are about one-third more than prevailing prices in Iowa and Illinois. Here the hatching season is from December 1st to February 1st.

* * *

In answer to Wm. Barnham, North Dakota: I am unable to suggest a place for your garden and lawn as I am not possessed of any facts as to the size, shape, slope or elevation of your land. I never see "plans for the home grounds" given in a magazine but that I realize there is a lot of very impractical matter dished up in these garden magazines. No two pieces of land in all the world can be planted on the same plan and the giving of a general plan with the idea that it will be of service to any one, is a waste of time, and may even do a great deal of injury to some impractical persons.

RICH GOLDEN YOLKS



depend on summer green food. Hens can get this necessary succulence better and cheaper than green food and will lay more eggs if you dissolve

SUCCULENTA TABLETS in their drinking water. Results or money back. 100 large tablets 50¢ by mail. 250 tablets \$1.00 postpaid. THE SUCCULENTA CO., P. O. Box 405-1 Newark, N. J.

Readers Experience Department

All In Knowing How To Use It.

ALMOST every day for a number of years I have passed by the place where oil was first discovered by the Seneca Indians. Their method of producing was to throw a more or less clean blanket on the top of the water where a scum of oil had gathered, and wring the oil and water that soaked into the blanket out into tubs. After which they skimmed the oil from the top of the water, bottled it and sold it for medicine, and Seneca Oil became famous in some parts of the country as a sure cure for coughs, colds and sore throat. I can remember when right here in the oil country Seneca Oil could be bought at country stores at 25 cents a bottle. But as in many other things, the Pale Face upset the Indian's industry, wells were drilled, and Seneca Oil produced in such vast quantities that it dropped in price from 25 cents per bottle to 50 cents per barrel, making it altogether too cheap and common to use for medicine. The Pale Face then began distilling the Seneca Oil, some-

thing after the manner of distilling whisky, thus making a clear water-white oil instead of the green, dirty looking oil, and selling it for illuminating purposes instead of medicine. From this distilled oil our kerosene comes, and this kerosene when it comes from the still is used as a medicine for colds, but not particularly pleasant to take.

A gentleman of my acquaintance once told me of having a cat that was so badly afflicted with mange that its whole body was a mass of sores. Its eyes were almost closed. It had been a great pet and he hated to kill it. A neighbor told him to get some oil right from the well and dip the cat in it. He started for the well with a pail, and on the way met an oil treater from one of the refineries, whose business it was to treat kerosene oil to make it fit for market. The treater told him not to use the crude but instead to take the distilled product before it was treated. He did, and in a few days his cat was clean of sores, and never thereafter showed any signs of mange. That was *kerosene distillate*. Now what is the difference between kerosene distillate and the kero-

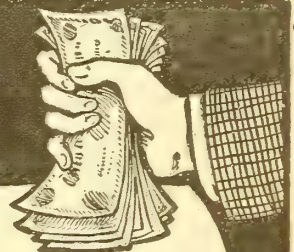
sene oil our friends buy to cure their poultry?

Kerosene distillate has a peculiar smoky odor and a yellowish color which is offensive to the fastidious buyer who demands something better. So the refiner must give him what he wants and charge him accordingly. A treater is thus employed to remove this unpleasant odor and also make the oil water-white in color. He runs the distillate into a lead lined tank and pumps into it pure sulphuric acid, then agitates the oil with compressed air until the acid and oil are mixed, which clears the oil and removes the odor. But the acid must be removed. To those who do not know the nature of sulphuric acid, I can best explain by telling them of the conditions of the treater's clothes, for be as careful as he may he will occasionally get a little spray of acid on his clothes, and wherever it touches it eats a hole thru. He is generally seen with clothes looking as tho a party of hunters had mistaken him for a rabbit and all peppered him with shot at once.

I remember one time when a man, who was a German, was unloading a car



Which Will You Have Lice or Profits



There are 30 different kinds of lice that infest Poultry and every one of the tribe helps to rob you of your Profits. When once they get a good foothold they make the poultry business look sick. If you want profits, you cannot tolerate lice and must get rid of them. A hint to the wise is sufficient—Get right after them—Use the remedy that has been for

30 YEARS THE UNIVERSAL FAVORITE

The Old Reliable Lambert's Death to Lice Powder

and your lice troubles will be no more. Its effect is immediate and it will not injure eggs, hens or chicks, nor soil the finest plumage. It is just the thing for sitters, to make them sit comfortably. It is also invaluable for destroying lice on Horses, Cattle, Sheep and Swine.

PRICES

100 oz.	\$1.00
48 oz.	.50
15 oz.	.25
Sample, 5 oz. size	.10

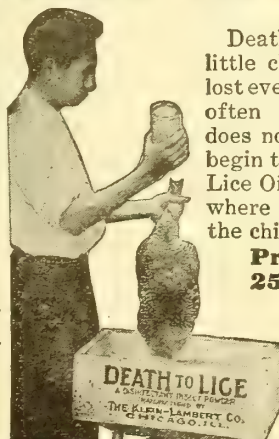
If not at your Dealer or Druggist's send direct.

"Secrets of Success with Poultry" by D. J. Lambert mailed for 2-cent stamp.

THE KLEIN-LAMBERT CO.

601 Traders Bldg.

Chicago, Ill.



Death to Lice Ointment kills head lice on little chicks. Thousands of baby chicks are lost every year from this cause (the lice being often mistaken for pin feathers). It does not pay to wait until the chicks begin to droop and die when Death to Lice Ointment will kill the lice just where they are without injury to the chicks.

**Price 10 cts. and
25 cts. per box.**

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Mail This
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Send me your Booklet containing "Secrets of Success with Poultry" by D. J. Lambert

Name

P. O.

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Have you placed
your order yet for

Baby Chicks?

Are you acquainted with The Lord Farms, or The Everlay Farm, which is one and the same thing? Sit right down now and write for our 104-page catalog, all about

S.C.W. Leghorns

Do you know that we are selling more chicks than any other breeder in this part of the country? The reason is, we hold our old trade and continually add on new. Our prosperity is a proof of the satisfaction our customers are getting, and show that we have good Leghorns and sell at popular prices.

Let Us Give You a "Successful Tip"

Everybody makes a rush for March and April chicks, which is the proper thing to do for the big breeds, but if you are after the biggest egg records possible from Leghorns, buy May hatched chicks. The biggest laying records on this breed are all practically made from May or later hatched Leghorns. It pays to be slow some times. For the past five years we have carefully looked up the records our customers have made in quantity of egg production, from birds hatched from February to August, and nine times out of ten the later hatched chicks have averaged the most eggs during their pullet year. We have sold chicks as late as July 8th that laid 252 eggs. The pullets that have been laying 50% to 65% this winter were hatched after the 15th of May.

Book your order now for May hatched chicks

the best month in the whole year for Leghorns. We can take your order for either 25 or 10,000 chicks. Hatching eggs in any quantity, at half the price of chicks.

Cet our catalog now, and address either

THE LORD FARMS, or THE EVERLAY FARM

Box 240-M, - METHUEN, MASS.

Trethaway's Anthracite

S.C.B. Minorcas

Every year for 25 years winners have been hatched from my eggs all over the country. Four of the best pens I ever put together. All headed by a yearling cock mated with hens. Eggs, \$5.00 per 13; \$9.00 per 26. I replace unfertile eggs.

ARTHUR TRETHAWAY, 45 Parrish St., Wilkes Barre, Pa.

SCHABELL'S

Wh. and Buff Orpingtons

Won 1st prize pen at Chicago, January, 1916; 1st, 2nd and best pullet at Melrose Park; 1st young pen and 1st, 2nd, 3rd, 4th and 5th at South Shore Show. Hatching eggs, pullets and hens. Mating list free.

JOHN SCHABELL, 3331 Cuyler Ave., Chicago, Ill.

of acid, having the top off the tank. It happened that his brother-in-law who had just arrived from Germany and was watching the operation, stuck his hand into the acid thru curiosity. The other German told him in an excited manner to wipe it off quickly and stick his hand into the water or it would burn his hand. The brother-in-law alarmed, stuck his hands between his legs and closed tightly upon it, pulled the hand out again and jumping from the tank, stuck it into a pail of water. The hand, fortunately, was saved, but inside of half an hour he decided that German made trousers did not stand Pennsylvania climate very well.

Of course this acid must be removed from the oil before it is marketable. The method of doing this is to dissolve caustic soda in water and add to the mixture and agitate the oil, acid and caustic soda, with water, after which the acid, soda and water are drawn off, leaving the oil in the tank. If the treater is careful in this wash, only a small percentage of acid or caustic soda remains in the oil; but if he is careless the oil is more liable to blister than that which is well washed out.

I can best tell what effect caustic soda has on flesh by telling an incident which I once saw in an oil refinery. I was in the office of the refinery and among other things I noticed a large pitcher and wash basin on a stand in one corner of the room. While I was there, one of the proprietors came in, and going back to the before mentioned stand, poured some water from the pitcher into the basin and proceeded to wash his hands. He just got nicely started when, to my surprise, he began to give us a fine imitation of a Turkey City Turkey Trot. (Just remove the receiver from your ear until I tell you of the original Turkey Trot.)

During the early oil excitement near the location of big wells, towns sprang into existence like mushrooms over night, as it were. In western Pennsylvania one of these small towns had loomed up too quickly for its busy business men to think of a name for it. But just as it got nicely started a couple of sharp looking individuals with an old fiddle and a lot of turkeys blew in, engaged quarters in a saloon and set up a cage in an empty room. After which they proceeded to advertise "dancing turkeys." They then opened up business by one sawing on the old fiddle such tunes as "Irish Washerwoman," "Sugar in the Gourd," "Arkansas Traveler," etc. When the fiddler would start up a tune his attendant would bring a turkey from the other room and toss it into the cage where it would immediately begin to lift one foot and then the other, then try to lift both feet at once and jump about in a most comical manner. Just as the tune ended the attendant grabbed up the turkey and took it out. When another tune started, another turkey was brought in. These gentlemen did some business—until some of the spectators discovered the bottom of the cage was iron and was kept hot from underneath. This discovery closed the exhibition suddenly and the present name of the city was suggested—Turkey City. (Now the receiver again, please.)

Yes, the old gentleman washing his hands, there in the office, danced around considerable, then we discovered the reason. The janitor had put a little caustic soda in the water to clean off some grease and the soda was painfully



Chicks
Started
Right
on

Blue Ribbon

Chick Feed

will soon be ready for

Blue Ribbon

Growing Mash

and

Blue Ribbon

Developing Feed

The Spring Feeds for
Quick Growth.

These Three Feeds will
help you to grow Big-
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How to use these feeds for best results
is told in our book, "What to Do Each
Month in the Poultry Yard," sent free
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Big Cash Profits

Every Week on Chicks. Write me for details
showing how beginners with Belle City outfits
make \$10 to \$25 a week on day-old chicks.
Get the facts! Any man, woman, boy or girl
can do it by following my plan and using my

25 TIMES World's Champion Belle City Incubators and Brooders



"In 25 World's Greatest Matches
Belle City Won With Perfect Hatches"

402,000 in use. Get the whole
wonderful story told by the champion-
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Free Book, "Hatching Facts"

On Practical Poultry Raising

With book comes full description and illus-
tration of my incubator and brooder in actual
colors—the kind used by U. S. Government
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My Ten-Year Money-Back Guaranty
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Same As Last Year
All facts, proofs, particu-
lars—100 photographs of
prize-winning hatches—

Also my \$1300.00
Gold Offers

Conditions easy to re-
ceive biggest pay.

Learn how I paid one
Belle City user \$156.25;

another \$50, many from
\$45 down. Write me today.

Jim Rohan, Pres.

Belle City Incubator Co., Box 27, Racine, Wis.



Get My 1-2-3
Months' Home
Test Offer
Freight Prepaid

155 EGG \$7.85 LOWEST PRICE YET FOR BIG 155 EGG INCUBATOR

Prize winning hatches—Sure results—Healthy chicks—Best
Construction—California Redwood—Copper Hot Water Heat-
er—Safety Lamp—Tester—Thermometer—Self-Regulating,
etc. Prepaid E. of Rockies. With Brooder \$9.85. Hundreds
of Dead Air Cells. Big new offer this year—write.
PROGRESSIVE INCUBATOR CO., BOX 135 RACINE, WIS.,

eating its way into the proprietor's hands. The treater was sent for, and he produced some vinegar in which the old gentleman washed his hands, and the effect of the caustic soda was killed. Now you have the secret.

Before you treat your chickens with kerosene for lice put a barrel of water and a barrel of vinegar in your coop, and after you use kerosene watch them closely. If they go calmly about their affairs, eating or laying eggs, the kerosene was no doubt good. But if they begin to do the Turkey Trot, grab them

with all possible speed and douse them first into the barrel of water, which will kill the acid, then douse them into the barrel of vinegar, which will kill the caustic soda, and the lice being so much smaller than the chicken, the kerosene will kill them *first*. And you will have the satisfaction of knowing that you have accomplished your end.

Oil City, Pa. M. C. WILSON.

Criticism of Mammoth Hatcheries.

I have read considerable criticism of the mammoth hatcheries lately and I

am at a loss to understand just how any one man or association of men can prevent the big-day-old chick hatcheries from continuing in their chosen business. It looks to me like a pretty "tall order" to put good business concerns out of the running when we all know of business houses conducting what is termed "an all-around unreliable" business, and yet manage by hook or crook (mostly crook) to keep it up for some time.

The following is taken from a recent criticism of mammoth hatcheries and is

E. B. Thompson's Imperial "Ringlet" Barred Plymouth Rocks

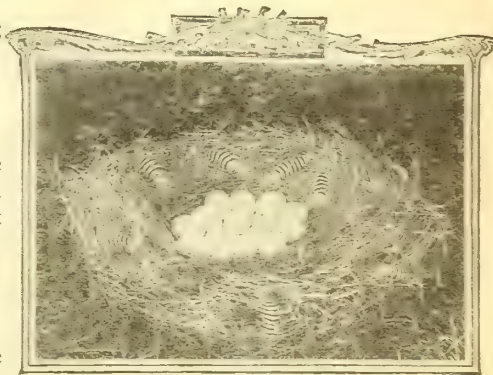
Are Recognized Thruout the World As
the Leaders of All the Barred Rocks

You Are Now Thinking About Eggs to Produce
the Silver Cup and Blue Ribbon Winners
for Next Season's Shows.

Think of the great satisfaction of winning prizes on birds you raise with your own hands, from the time the chick first sees daylight until the Blue Ribbon hangs on the coop in the Show Room. The delight of winning on a bird you owned all its lifetime cannot be described.

**My Imperial "Ringlets" Will Put You In a
Position to Win at Next Season's Shows.**

You may raise a single chick worth hundreds of dollars and capable of winning in the strongest competition—Hundreds of my customers have done this.



Imperial "Ringlet" Eggs in a perfect nest

My Matings Cannot be Equalled in Their High Quality and First Prize New York Blood Lines

They are the Finest in all America. In my Imperial "Ringlet" eggs you get the best First Prize Sweepstakes New York blood which you must have to win in the strongest competition. You will share with me and have an equal chance of producing the highest quality First Prize birds of the year. The Imperial "Ringlets" have a distinct type, color and barring—their color is one even blue shade and barring, is evenly spaced, narrow and straight across the feather to the skin—they stand out in pattern from all others.

My Eggs Are the Best that Money Can Buy—They Produce First Prize Birds

Mr. E. B. Thompson.

Wilcox, Pa., January 11th, 1916.

Dear Sir:—Just a few lines to let you know what the Imperial "Ringlets" have done for us in the show room this last fall and winter. The Mountain Poultry and Pet Stock Association, of Kane, Pennsylvania, held their show last week. We had 28 birds entered and they were admired by everyone as well as by the Judge; in prizes we took 1st, 2nd, 3rd, 4th and 5th Cockerel; 1st, 2nd, 3rd, 4th and 5th Pullet; 1st, 2nd and 3rd Pen; 1st and 5th Hen; 3rd Cock; Special for Best Pen in Show and Best Hen in Show, also a Special Silver Cup for Best Display in American Class. At McKean County Fair and Johnsonburg Show they won the Blues also. These birds are all from the stock we raised from the eggs we bought of you in the spring of 1914. We have some promising youngsters from the eggs we got of you last spring, too.

Yours respectfully, Nelson Bros.

Plainville, Ind., Jan. 3rd, 1916.

Mr. E. B. Thompson.

Deas Sir:—I will write and let you know that the Imperial "Ringlet" cockerel that I bought of you in December won First Prize at Plainville and Odon, Ind., and from the eggs I got of you last spring I raised seven pullets and seven cockerels; won 1st and 2nd Pullet; 1st Pen; 2nd and 3rd Cockerel. Kindly quote price on one setting of eggs from your best cockerel mating pen.

Yours truly, Fred Lawyer.

See My Other
Ad on Back
Cover Page

I Will Help You to Greater Success and Larger Profits

Richly Illustrated Catalog Upon Request.

EGGS from the finest exhibition matings in all the world,
\$10 per setting; 4 settings \$35; 100 eggs \$60.

E. B. Thompson

Lock Box 510, AMENIA, N. Y.

Speak for Themselves



Photograph
unretouched

SHEPPARD'S FAMOUS ANCONAS

Are the standard by which all Anconas are judged. They speak for themselves. At the leading show of the world, Madison Square Garden, New York City, Sheppard's Famous Anconas have won three times as many first and second prizes as all other Ancona breeders together, during the past nine consecutive years, which proves beyond a doubt that they are

The World's Best

At the 1916 Madison Square Garden Show, we won eight First prizes, seven Seconds, six Thirds, six Fourths, five Fifths. Now is the time to send your order for some good hatching eggs, or some breeders and get ready to win next year. Prices reasonable.

Champion Layers

Sheppard's Famous Anconas are greater winter layers and have a wonderful record of **256 average** for a flock.

Your order will have my personal attention—write at once—Catalog on request. Stock, Chicks or Eggs for sale.

H. Cecil Sheppard

President International Ancona Club

See my ad on opposite page
and opposite inside front cover.

Box M-2, BEREA, OHIO

in line with most of this "investigation stuff."

"As time goes on these mammoth hatcheries no doubt will be brought into line. At present most of them appear to be commercial institutions. We believe we are right in saying that a large majority of them were started and are being conducted, not by fanciers, not by experienced breeders, who are advocates of real quality, but by commercial men, so to speak—by men who figure on doing things on a big scale and who are anxious to make large profits, season after season, without losing any time in getting started."

It is a puzzle to me to know what these mammoth hatcheries could be expected to be, if not commercial institutions. Certainly those who have invested heavily in both time and money in the day-old chick business could not have been believed to have done so for their health. The artificial discrimination of the writer of the above comes near being beyond the bounds of the dignity of intelligence.

So far as any dealings go with "fanciers" or "experienced breeders" of which I have any knowledge, I have been led to believe that such dealings were with "commercial men"—men who figure on doing things on a big scale and who are anxious to make large profits. At least there is every appearance of such having been the case.

By the same writer it is also claimed that many of the chicks sold from these hatcheries are "being produced from disqualified specimens." I am glad to number among my friends a great many fanciers and experienced breeders, and I feel confident in saying that most, if not all of them will freely admit that they frequently use disqualified specimens in their breeding pens, for many birds which would be disqualified in the show rooms might be invaluable as breeders. On the other hand, however, I do not believe these breeders would use diseased or deformed specimens in their breeding pens, which is altogether a different matter—and greatly to the credit of the fancier breeders, and is equally applicable to the mammoth hatcheries. The common run of people are not such a bad lot after all. E. H. JOHNS.
New York City.

A Source of White Diarrhoea Infection.

The hatching season is now here and soon will be heard the same old complaint of chicks dying with white diarrhoea, which leads me to tell of my observations on one phase of this knotty problem.

Most all facts were once theories and only grew to be facts by being proven; and two facts, now generally accepted, I believe, are that the white diarrhoea germs are present in the hen and each egg such hen lays is infected and consequently the chick at hatching time is infected and also that white diarrhoea is infectious.

Notwithstanding the advice from a supposedly learned writer in a daily newspaper that "white diarrhoea always proves fatal," some chicks positively do survive and grow to laying age and thus pass it on to the next generation of chicks. What a blessing it would be if it did always prove fatal. How quick it would die for the lack of perpetuance.

What I am about to say on this subject is a fact to me and I regret to say that I must call it theory because it has

not been proven to the general poultry public, but it has been proven to me by experiments extending over a considerable number of years in using hens, lamp and mammoth incubators for hatching, and using eggs from numerous flocks of my own, eggs I have purchased and eggs for custom hatching.

The greatest and first source of infection is caused by light. Understand, I said the *source* is caused by light.

I do not think it can be successfully disputed that white diarrhoea is far more prevalent among incubator hatched chicks than hen hatched chicks, yet many hen hatched chicks die from this same cause. Let me compare the two kinds.

There is no denying that a chick at hatching time has certain inherited instincts no matter what method of hatching is employed and the greatest and most noticeable of these instincts is to peck at, or eat. It is the same instinct that prompts a baby to try to put in its mouth everything from its fists and feet to "Papa's" gold watch. Anyone who has watched a hen at hatching time knows the peculiar notes she utters as she hears the "cheep-cheep" and how the little fellows when they need less heat and more air stick their heads out thru the fringe of feathers and quickly hide when she gives a warning signal, or how they scramble to the front when she calls them to eat something which is nearly always a piece of straw or egg shell far larger than they could possibly swallow; but they learn her calls and place dependence in them and if left to herself the hen on leaving the nest repeatedly calls them to eat so that the chicks depend on her and eat nothing unless she gives that peculiar call which I have never heard imitated, much less seen written. They follow the hen and get real food the first thing and learn to discriminate between that which should be eaten and that which should not.

But how does this compare with incubator hatched chicks and with these I will include hen hatched chicks taken from the nest as soon as dry if not before and placed in baskets or boxes near a stove?

I will describe an extreme case, but I wish it understood that the light may begin to play its part at any time that it gets to the chicks for any period of time.

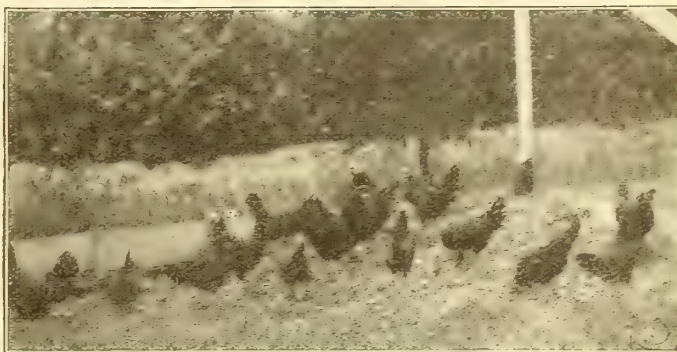
A chick infected at hatching time hatches in an incubator with glass doors in a light room and when strong enough works its way to the front and falls in the nursery, or if hen hatched it is put in a basket with light enough for it to see. Here it pecks other chicks in the eyes and on the toes, and in turn gets pecked. They all struggle to peck at any bright objects such as nail or tack heads or anything placed against the glass doors or thru a hole in a basket. Droppings from infected chicks are pecked at by other and healthy chicks, and thus a few infected chicks will infect a whole brood. Those infected at hatching time die first while those infected afterward linger along and die at various ages, or overcome it and live to maturity to pass it on to the next generation.

Thus it can be seen that chicks may become infected because of the presence of light which enables them to see and eat the droppings from infected chicks, and also the absence of the old hen's calls which teaches them the difference

ANOTHER GREAT RECORD

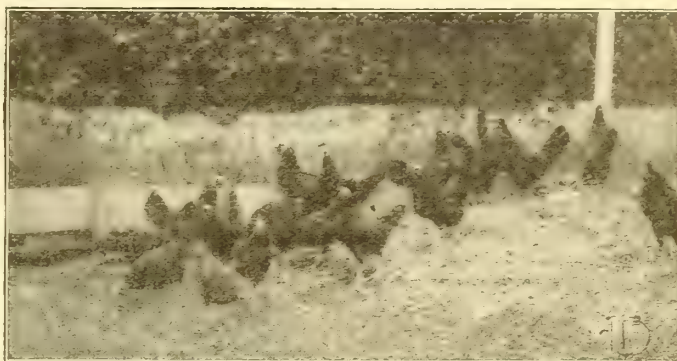
Three Generations of Sheppard's Famous Anconas

Looks Mighty Good, Doesn't It?

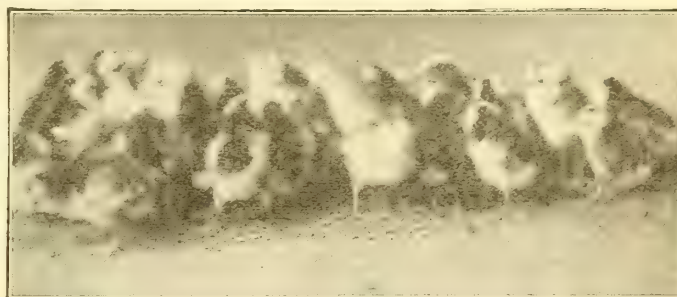


These are the birds that are world famed as winter layers. They have the wonderful record of 256 average for a flock. That is why my customers call them egg machines.

The pullets in the picture below were hatched from eggs laid by my birds in picture above, when parent birds were only four months, fifteen days old.



Here are the pullets that laid when four months, seven days old. Their eggs hatched these wonderful youngsters shown below, producing three generations in less than one year, making a record that stands alone.



Sheppard's Famous Anconas are bred to make good, both in the show room and as layers. They have made good for me. They will do the same for you. Stock, Eggs or Baby Chicks for sale. Send for our 86-page catalog which will be mailed upon request.

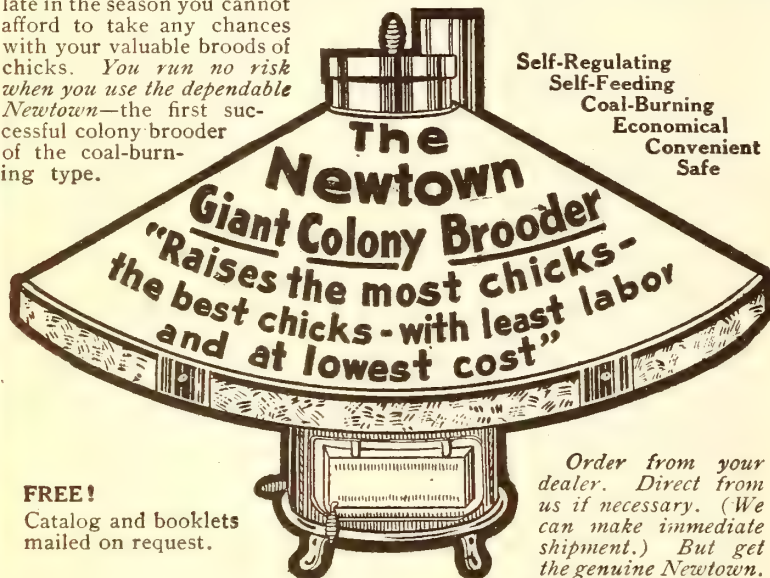
H. CECIL SHEPPARD, Box M-2, Berea, Ohio

See my ad on opposite page and opposite inside front cover.

This Brooder Will Raise Your Chicks

Buy a **Newtown Giant Colony Brooder** and forget your brooding worries. There is no reason for risking the success of the entire season through experimenting with *untried* brooding devices. These may resemble the tried-and-true **Newtown** in appearance, but in efficiency the **Newtown** leads the field. *It is years ahead of all imitations.*

Sound business sense dictates the wisdom of using "the brooder that has made good" in all sections of the country and under all conditions. Thus late in the season you cannot afford to take any chances with your valuable broods of chicks. *You run no risk when you use the dependable Newtown—the first successful colony brooder of the coal-burning type.*



Self-Regulating
Self-Feeding
Coal-Burning
Economical
Convenient
Safe

FREE!

Catalog and booklets
mailed on request.

Order from your
dealer. Direct from
us if necessary. (We
can make immediate
shipment.) But get
the genuine Newtown.

NEWTOWN GIANT INCUBATOR CORP'N

21 Warsaw Street

Harrisonburg, Virginia

What's a CAPON and Why?

Geo. Beuoy's New **CAPON** Book explains. Tells all you want to know about capons. 76 pages, 40 halftones from life. Shows each step in the operation in detail. Full and complete, easy-to-use directions. Copyrighted new and revised 4th edition. One 50 cent copy for a short time only prepaid for



A DIME—10 Cents **AUTOMATIC REMOVER**
(Patented. No extra charge on that account.)

GRAND CHAMPION "CAPON EXHIBIT" With highest "GOLD AWARDS" was won by me at "PANAMA PACIFIC EXPOSITION." \$3.50 for a full set of tools, "EXACTLY LIKE I USED TO make the "PANAMA PACIFIC WINNERS."

The Automatic Safe Set No. 10 and the book mentioned above free if your order is received at once. If not satisfactory return and I will refund. If you prefer I will send them C. O. D. by Parcel Post and you can just pay the mail man for them.

GEO. BEUOY, R. F. D. No. 7 Cedar Vale, Kans.

World's Champion S. C. White Leghorns

Cockerels for sale bred direct from The World's Champion Laying Pen composed of ten hens from Tom Barrons' Pen O, international contest winners, 1914, at Mountain Grove, Mo. They are large, vigorous cockerels in good condition and health, March and April hatch. Absolute satisfaction guaranteed. Write today for descriptive circular.

ULTRA-AVES POULTRY FARM

M. H. WAUGH, Proprietor. : 511 Loucks Avenue : PEORIA, ILLINOIS

ROSE COMB WHITE MINORCAS

MADISON SQUARE GARDEN winners, 1916, 3 Firsts, 1 second with 4 birds. GREAT LAYERS. Fine table fowls. A few grand birds for sale. G. H. Chase, (Ulster Co.) Highland, N. Y.

"A Revolution in Egg Production." See page 655.

between food and that which should not be eaten.

Now the remedy for this particular cause is simple and costs nothing. Keep the incubator in a very dark room or keep the doors covered. When removing the chicks keep them as dark as you can and do not waste any time. I have found that fresh wheat bran in the moving boxes or baskets or shipping boxes is a very good thing, for what they eat of it, and they will peck, will do them good instead of harm. I am informed that in the great Petaluma district sand is used for this purpose and is also put on the nursery floors.

There is another form of diarrhoea often mistaken by many for white diarrhoea but which is caused by overheating and maybe by chilling and I may tell about this later.

Monticello, Ind.

FRED P. BIEDERWOLF.

Two Eggs a Day.

I have been a very interested reader of your Journal for some time and would like to tell my experience relative to hens laying two eggs a day. I have eleven S. C. Buff Orpington pullets that I have trap nested since the first of the year.

These pullets were hatched the 20th of March, 1915, and several began to lay October 10th. As I did not trap nest or keep any record of any kind I do not know how many eggs they laid up to January 1st. During January they laid 223 eggs.

One pullet laid seven eggs up to the 15th of the month, then laid from the 15th ever day during the rest of the month, and on the 27th and again on the 30th, laid two eggs, making nineteen eggs laid in seventeen days. On the first day of February she became broody.

Another of these pullets laid ten eggs during January, but she lays an egg that weighs three to three and one-quarter ounces each, none of which have double yolks, but are perfect in shape. Ducor, Cal.

H. E. HARROLD.

Origin and Characteristics of R. C. R. I. Whites.

This being a comparatively new breed but few people have seen them; and still fewer know what a really wonderful, all-around breed it is. When we consider its worthy ancestors it is not surprising that where it has been tried it is proving to be a most popular breed. It was originated in Rhode Island and was first offered to the public in 1903, and was obtained thus: A Partridge Cochin female was crossed with a White Wyandotte male. The pullets from this cross were mated with a Cochin male, producing an offspring one-fourth White Wyandotte and three-fourths Cochin. These pullets were mated to a Rose Comb White Leghorn male. Hence, the Rhode Island Whites are one-eighth White Wyandotte, three-eighths Partridge Cochin and one-half White Leghorn. From the Cochin it inherits size, beauty and plumpness, from the White Wyandotte, docility and their wonderful ability as Winter layers from both Cochin and Wyandotte. Combining these with the laying qualities of the Leghorn you have as nearly an all-the-year-around layer as it is possible to procure. Activity and alertness come from the Wyandotte and Leghorn. Quick maturity is also inherited from the Leghorn

while the Wyandotte has a good share also. Now, what is lacking? Here we have meat, eggs and beauty. A superabundance of each. What more could we ask for in one fowl?

I think I have given these birds a fair test, and they have excelled any others as an all-around fowl that I have ever tried. The eggs hatch well and hatch strong, hardy, active, liveable chicks. They manifest their activity very early in life. I have tried them in the same broods with the Reds, and while the latter was waiting for me to give them something more to eat the former would be digging away at the litter as tho their lives depended on scratching. Nor would I say one word against the Reds. They are fine birds which I admire very much, and birds which certainly deserve the popularity they possess. The R. I. Whites have all the good qualities of the Reds and possess them in a greater degree. In shape they resemble the Rose Comb Reds but are a trifle longer. They are snowy white with yellow legs and beak. Red eyes and bright red comb and ear lobes with neat head points. Head is of medium size, and beak of medium length, slightly curved. They stand erect, feet wide apart, with tail well spread and carried rather low. The breast is broad, deep and full; eyes large, oval, bright and prominent; back is broad and long. They are well feathered and their plumage fluffy, enabling them to withstand severe cold weather. The cocks weigh from seven to nine pounds, the hens from five to seven. Pullets begin laying at a very early age and are persistent layers thereafter; in fact, were best layers in the National

Egg Laying Contest except the S. C. White Leghorns from England in the year of 1915. A pen of April hatched pullets in my yard averaged 25 eggs each during the cold chilly month of December. In the production of eggs they excel all breeds I have ever tried. They do not go on a strike when the thermometer is hovering around zero, but fill the egg basket when the market is the highest. I have hens with egg records of 261 eggs per hen a year. Some of them are non-setters. Others are careful but not persistent setters and fine mothers. As a table fowl they are unexcelled. Their meat is fine, juicy and well flavored. They stand forcing well and under favorable conditions will make two pound broilers in eight weeks. They do well in confinement; but if given free range will hustle for their living and obtain it, if there is anything to be found. Hence, are suited to either the farmer or back yard poultry breeder. For the fancier I know no better bird. They are the attraction and sensation of the show room. In beauty they rival the White Wyandottes; but are a more business type. For a new breed they breed remarkably true to color; but like all other Rose Comb fowls, they throw some single combs. They are growing in popularity, and so far the breeders have not been able to supply the demand in either stock or eggs. I believe, for the beginner, a new breed is best, provided the new breed is worthy and has as many good features as the old. Thus he gets an even start with the breed and has a better chance to keep in the front ranks with it. C. A. FOSTER.
Akron, O.

"SMYTH'S 66" ALL STEEL INCUBATOR

ON 30 DAYS' \$ FREE TRIAL 4⁰⁰
HOLDS FULL 66 EGGS



To quickly popularize "SMYTH'S 66" All Steel 66 Egg Incubator, we will sell 2,000 at only \$4.00 each. Guaranteed to hatch as large a per cent of strong, healthy chicks as any incubator made, regardless of name, make or price. Made of polished steel; with double walled air chamber, 1916 improved disc regulator, standard thermometer visible through regulator, heat safety metal lamp, heat distributing drum around outer edges, water jacketed heat flue and double damper regulation insuring even temperature and moisture in every part of egg chamber, and proper warmth to eggs all the time. Full directions with each incubator. Shipping weight 18 pounds. SEND \$1.00 deposit and we will send you this high-grade, latest improved "SMYTH'S 66" all steel 66 egg incubator by freight, subject to examination. Pay balance \$3.00 and charges to freight agent after you find the incubator perfectly satisfactory and the greatest incubator bar. If you do not find it as good a hatcher as you ever saw or heard of, regardless of price or make, or if for any reason you are dissatisfied, return at our expense and we will refund your \$1.00 and freight charges. If you want incubator sent by parcel post, send enough money extra to pay the parcel post postage and we'll send on same liberal trial offer as above. We make very low prices on larger incubators, brooders, and poultry supplies of all kinds in our big free incubator Catalog sent you free upon request. Order incubator or catalog today.

JOHN M. SMYTH MDS CO. 703-789 Wash- CHICAGO
ington Blvd.

What To Feed Chicks

Baby chicks MUST have special food for the first 10 days to take the place of the insect food Nature intended.

F. P. C.

Chick Manna

Standard Since 1884

is just the food. Prevents bowel trouble, and prepares chicks for ordinary food.

At your dealer's, or write direct for offer of trial package by parcel post. Satisfaction or money back.

F. P. Cassel & Son
Lansdale, Pa.
A-9 Main Street



Now it is possible to raise every livable chick

You can prevent the usual heavy mortality during the critical first three weeks—can raise every livable chick, avoid disease, secure rapid growth and sturdy constitutions by feeding

Pratts Baby Chick Food—Makes Chicks Live and Grow

Real baby food for baby chicks. 75 per cent predigested. It contains bone and muscle builders, grows vigorous, active chicks. Intestinal trouble, leg weakness and other disease foes of chick life unknown. Why run the risk of losing chicks when at a cost of a cent a chick for three weeks, you can raise every livable chick?

Extra chicks saved pay for all food used for first three weeks.

25 lb. bag, \$1.50; 14 lbs. \$1.00. Packages at 50c and 25c.

This is Proof of What It Actually Does

I have nearly 300 chicks, and I commenced feeding them Pratts Baby Chick Food. They are doing fine. Out of 96 put out four weeks ago, 96 are still living, and grand chicks are they.

Mrs. H. HARBON KELLEY, Still Pond, Md.

We use Pratts Baby Chick Food altogether in raising our chicks. Have now 2170 on range, and lost only two chicks. How's that?

ROSELAWN FARM, Lakeland, Fla.

Pratts Poultry Regulator

The great body builder and growth producer following the baby chick stage. Insures early maturity, develops early layers. Keeps your flocks in perfect health and is a certain preventive of ordinary poultry diseases. Costs only a cent per fowl per month.

25 lb. pail, \$2.50. Packages at \$1.00, 50c and 25c.

PRATT FOOD COMPANY
414 Philadelphia
Chicago, Toronto

1915 Revised Edition

American Standard of Perfection

This great book has just been revised and it gives you the correct Standard Shape, Color and Weight of every recognized variety of poultry, including the new breeds that have been admitted. You will also find the disqualifications of each variety.

YOU CANNOT

raise, mate, exhibit or sell fowls intelligently without it. It contains ideal illustrations of the different varieties of fowls photographed from living models and gives the correct color of plumage on your birds. It's your guide to success in the poultry business. No one can breed fowls for exhibition without a copy of the *American Standard of Perfection* as a guide, and it is the only book of its kind published in this country; authorized, copyrighted and published by the A. P. A. Price postpaid, cloth, \$2.00; leather, \$2.50.

SPECIAL OFFER

American Standard of Perfection (cloth) **\$2.50**
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If you want leather binding add 50 cents to this price. Canadian subscribers add 25 cents per year for postage; foreign subscribers add 50 cents per year for postage.

AMERICAN POULTRY JOURNAL PUB. CO.

542 South Dearborn Street

Chicago, Illinois

IF WE ARE DENIED THE SCORE CARD EXHIBITION.

By I. K. FELCH, Natick, Mass.

WHEN I was licensed as an A. P. A. judge, forty years ago, I was denied the privilege to score any bird in which I held any property right, for the purpose of selling it. In all that time I have never done so. But I have been employed to go to other breeders to mate and score their breeding pens that they might add to the merit of their stock.

I am no longer judging fowl in or out of poultry shows. But this course is open to any breeder to employ a first-class judge to do this work—but, my young reader, do not make the mistake of employing a judge of ill repute.

An honest, reliable judge will score your birds at your home as conscientiously as he would at a show. If you can show to the buying public that your breeding pen contains no females which score below 92 to 95 points and occasionally one to score 96½ points, your exhibit will prove as good as any show in the United States has ever made, and better than some comparison judged exhibitions have shown in merit. No one can cite six birds to score 97 in the last forty years.

During the forty years of my judging life I have sacrificed my right and desire to exhibit because there was a prejudice against such an act. Therefore you have seen that I have relied upon the help found in my advertisements in the best poultry papers. Cheap birds and cheap advertisements will never take you to the front ranks in the poultry world.

Commence by inserting such an advertisement as you can. Make it an all-the-year-around advertisement that the best papers shall continue to carry your name to the notice of the buyers.

Then get out a neat circular, stating the score merits of your fowls by a popular judge, and always send *good value* for every order you get and you will succeed. When poultry shows will give score card shows with judges of good repute, patronize them freely, for the score card value to your exhibit, which it will give you. You owe it to them for the occasion which such a show will give you, to make a record of merit for your stock.

In such a show it does not matter whether you win the blue or not. One-half a point or one point within the score of the blue will make a relative difference in price which will be small. It has happened when an exhibitor has won the collection prize of ten birds, to score more points than any other exhibitor when he failed to get any one of the three money prizes of the same show.

You and I would buy breeding stock from such a breeder and exhibitor in preference to any other. Especially if 93½ to 94½ points was the score of his ten specimens. People are beginning to look at the general average of merit of a flock from which they buy breeding and exhibition stock with which to stock the poultry plants that are springing up thruout the country.

Another word as to advertising and pricing of stock. There is not a breeder in the land that can receive less than \$1 for the advertisement in the sale of a single bird. What does that mean to you? Simply that you must have stock



Wendell's Incubators

Metal inside and out, heavy case well padded and double walls, automatic as near as can be constructed. A cracken good one.

We have specialized on brooders for the past 15 years.

We make all sizes, all metal, hot water heat, Warm Flannel to Lay on Chick's Back. The best on the market. We have not raised our prices this year.

100 Egg \$10.00
150 Egg 12.75
200 Egg 16.00

25 to 50 chick brooder for \$2.50—50 to 75, \$3.00—75 to 125, \$4.00. It will pay you to

Send Postal Today for free book

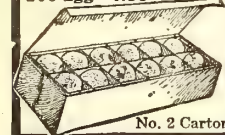
Wendell Incubator Company
Holly, Mich.

FOR PARCEL POST AND EXPRESS SHIPMENTS

Use Rippley's Perfect Egg and Day

Rippley's Perfect Egg Boxes Made of extra strong corrugated cardboard. Stand 5 men's weight. Cushion effect. Dead air cells keep out cold and heat. Chick boxes have correct ventilation. Glued tape seals boxes. Will deliver chicks or eggs 3,000 miles with safety, and eggs in hatchable condition. Satisfaction guaranteed or money returned. Put up in packages of 1 dozen, 25 cts. extra for each package broken. Sample box 25 size chick or one setting, egg 25c postpaid. Use RIPPLEY'S EGG CARTONS to ship—mail—eggs to city. Your name or farm printed in 1 color. Made of strong chip cardboard. Folds flat for shipment. 30 doz. can be packed in egg case.

Size Doz.
15 Egg \$1.10
30 Egg 1.85
50 Egg 2.50
100 Egg 4.00



No. 2 Carton

Prices No. 2 Carton. Two partitions. Heavy Card Board.

500 Boxes \$ 6.50
1000 Boxes 10.50
5000 Boxes 40.00
No. 3 Carton. 4 partitions. Made single manilla pulp lined, chip board.

500 Boxes \$ 4.50
1000 Boxes 7.00
5000 Boxes 30.00



Perfect Chick Boxes
100 Chick Size - \$2.85 per doz.
50 Chick Size - 1.75 per doz.
25 Chick Size - 1.25 per doz.

Catalog Free

Tells all about Rippley's Boxes, Cartons, Brooder Heaters, Hovers, White-washers, Sprayers, Coops, Carts, Feed Cookers, etc.

RIPPLEY MFG. CO. Box 027, Grafton, Ill., U.S.A.

LAYERS OR SHOW BIRDS

We can supply you birds that cannot be excelled for type, color, or as egg producers. Our birds have free range on a 300 acre orchard, meaning sturdy, vigorous fowls; 265 trap-nests in operation, so we know what these birds will do. Wh. Wyandottes and S. C. Wh. Leghorns. Baby Chicks and Eggs for hatching.

STRAINS ESTABLISHED 1906

LAKEWOOD FARM

HOLLAND, MICH.


to sell that is better by a dollar than the average price or you will fall behind. You must ask a dollar on every bird sold to pay for this expense and have the bird worth it. As a rule, buyers fight shy of all breeders who advertise at a price people know they cannot afford. The cost of advertising is a legitimate expense as much as the corn you buy and feed the flock.

No sensible buyer will object to paying \$5 or more for first-class breeding females and from \$5 to \$15 for first-class males. But it is up to you to send good value for what your patron shall elect to pay.


It is easier to sell good stock at a fair price than to sell common stock for any price at all. I never had but one pen of birds returned to me in my life and that one, twenty-two days after the purchaser had received them—doing it, on my doing by him as I do to all, telling him to return at once if not satisfied. They came back with one bird in such condition that I burned her at once. I said to my helper: "Here is his reason for sending these birds back—the price I received was the smallest I ever sold eight birds for in my life." I sent the man his money back, but I am pointing out the situation to emphasize this: It is up to you to satisfy your patrons no matter who is to blame or who is the exactor of unreasonable demands.

I close as I commenced. Have your birds scored by a reliable judge. Make your advertisement as large as you can afford to run for the year thru, calling the reader's attention to your truthful circular which you will cheerfully send them. See to it that each customer gets good value for money received. Above all place your advertisement in a first-class poultry paper, for nothing cheap pays in poultry culture.

(Note—It would appear from this article that Veteran Fancier and Judge I. K. Felch still advocates private scoring of birds. If the scoring is honestly and fairly done as he urges, we can see no reasonable objection to it; and it certainly has much to recommend it from a selling point of view, because it gives to the buyer what to him is a tangible valuation on the quality of the specimen. No one will deny that from a commercial viewpoint "score-cards with the birds" is good business. But the American Poultry Association frowns upon "private scoring" and says in the Standard: "Private scoring of specimens is not advisable and members of this association are directed not to lend their support to the practice as a selling method." That is the American Poultry Association rule. Should it stand or should it be eliminated from the association rules? Unquestionably Felch believes in having the birds scored privately if you can't get it done in the poultry shows! Will the American Poultry Association reconsider the rule or will it excommunicate this veteran who is a pioneer fancier and one of the pillars of poultrydom?—Editor.)



MONEY IN THE BAG
 Pearl Grit is an extra egg producer. Extra eggs increase egg money. The extra money more than pays for Pearl Grit. Users say so, and keep a supply on hand. The reason is, IT PAYS. We want you to write us today for detailed information. Booklet free.
THE OHIO MARBLE COMPANY
 108, Cleveland Street, Piqua, Ohio

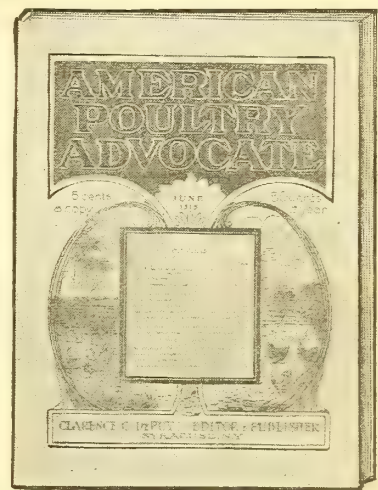
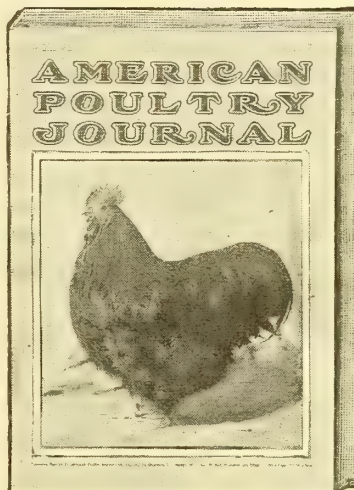


70 EGG INCUBATOR \$5.50
FREIGHT PAID \$5.50
 Here's the best incubator offer on the best incubator. Guaranteed to hatch equal to any \$15.00 machine.
1916 RELIANCE Incubator
 Best built—double walls, hot water heat, copper tank. Full equipment—lamp, regulator, thermometer, etc. Freight Paid. Order today on Satisfaction or Money Back Guarantee or write for literature. We make Brooders, too.
RELIANCE INCUBATOR CO., Box 50 FREEMONT, ILL.

Value
\$2⁰⁰
 and extra
 good value
 at that



Cost
\$1⁰⁰
 for all 3
 magazines
 for 1 year



American Poultry Journal, Chicago, Ill. The one great poultry paper of each calendar month; 68 to 252 pages per issue; price \$1.00 per year.

American Poultry Advocate, Syracuse, N. Y. The leading and most widely advertised poultry paper of the East; published monthly; price 50c per year.

Farm and Home, Springfield, Mass. One of the oldest agricultural publications in America. Conceded to be one of the best papers of its kind. Published twice a month; price 50c per year. (24 issues).

All 3 for \$1

AMERICAN POULTRY JOURNAL, 1 yr.
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 FARM AND HOME, 1 yr.

Order today.

**American Poultry
 Journal Publishing Co.**
 542 S. Dearborn St., Chicago

American Poultry Journal Pub. Co.
 542 South Dearborn Street, Chicago, Ill.

Enclosed please find \$1.00 for which send American Poultry Journal, Farm and Home and American Poultry Advocate, one year each, to

Name.....
 Street.....R. F. D.....
 Town.....State.....

This is renewal to.....
 Canadian subscribers add 75c for postage;
 foreign add \$1.50.

Wolf's R. C. White Leghorn Winners

Winners at the Great National Shows, Chicago Coliseum, Milwaukee, St. Paul, Duluth and many others. Won this year at Milwaukee, Silver Cup for best display, which included 5 firsts, 3 seconds, 3 thirds, 1 fourth. This record made in competition with birds winning at the World's Fair, San Francisco. Our birds have especially fine type, long broad backs, and real color.

Eggs for hatching. Stock for sale. Catalog free. Write today.

MRS. JOHN WOLF Box 40 MERRIFIELD, N. DAK.

NOVAK'S WHITE ORPINGTONS

Winners at Milwaukee, Racine, Wisconsin State Fair, and wherever shown. Won at Milwaukee this year—1st and 3d cockerel, 3d and 4th hen (4 entered). Racine—1st, 2d, 3d and 4th cock; 1st, 2d, 3d and 4th hen; 1st, 2d, 3d, 4th and 5th cockerel; 1st, 2d, 3d, 4th and 5th pullet; best display. White Leghorns (two entries), 1st pullet, 3d cock, special best female. First White Orpington Cockerel at Milwaukee for sale at a bargain. Eggs for hatching. Stock for sale at reasonable prices. Write at once.

NOVAK POULTRY FARM

R. R. 1, Box 85 MRS. NOVAK Racine, Wisconsin

"QUALITY" GOLDEN WYANDOTTES

Winners at Wisconsin's leading shows and Chicago Coliseum show, 1915. Winning 1st Cock and 1st Hen in strong competition. Eggs at \$3.00 and \$5.00 per setting. Some stock.

F. S. CLAUSEN : OCONOMOWOC, WIS.

ROSE COMB BARRED ROCK STANDARD.

By S. B. WENGER, South English, Iowa.

IT IS only a matter of justice to the committee appointed to draft a standard for this new rock that the breeders give their views on the subject, as undoubtedly the committee desires to know the wishes of the majority of those concerned.

There is more importance in this matter than is generally supposed for upon the decision of this committee will hinge a deciding point, no doubt, of thousands of Barred Rock fanciers, present and future.

For my part I am perfectly willing that the committee use its own better judgment. I have a decided preference in the matter but whatever seems best to the committee and that they see fit to adopt I shall not raise a resenting voice. In this, like many other things, on which people differ in opinion the majority ought to rule. It is a fact, however, that many are not familiar with the points at issue, whether it

should be a single or a double mating standard.

We have amateur breeders and will have them as long as there is a poultry business, and there will be a poultry business as long as there are people upon the green earth. Every year there will be hundreds of new beginners in the pure bred poultry business. A large per cent of which do a short lived business because of disappointment and perplexing problems. For this reason especially I would favor making this new breed an easy task.

You ask the majority of Barred Rock fanciers, and in many cases people who have bred Barred Rocks for years, what is meant by double mating and they can scarcely give you an intelligent answer, much less would they be able to select a pen for special mating of the cockerel or pullet lines.

Most assuredly everyone can use his own choice in breeding regardless of the decision of the committee on standard, but the question is what is best for the advancement of the breed and what are the wishes of the majority of those concerned? These are no doubt questions in the minds of the committee.

Another side to this question of standard for the Rose Comb Barred Rocks, will the A. P. A. accept our application to admit our breed to the Standard of Perfection if it is adopted as a single mating standard?

In reality a breeding club ought to have the privilege of adopting what is considered the best interests of its own breed. This privilege ought to be allowed by the A. P. A. Why should it not? If a breeding club of sufficient strength of any variety of poultry sees fit to adopt certain methods pertaining to the best interests of its breed, why should it not be accorded that privilege? If we are allowed to breed Barred Rocks with Rose Combs, why have we not the same right to say whether our standard should be for single or double matings? It will not interfere with other breeds. Our club is at this time threshing over the same straw that the single comb breeders threshed out some years ago, and whether we get wheat or chaff or Barred Rock feathers remains to be seen. They are thru with it and it is now a matter purely our own.

The object at this time of drafting a standard for Rose Comb Barred Rocks



Hawkins' BARRED PLYM. ROCKS

The Recognized Champions of America.

Winners at the Greatest Shows.

Boston, New York, Chicago, World's Fair, San Francisco. The kind you will buy, when you want the best. By careful line breeding over a period of over 30 years, I have produced a strain of Barred Plymouth Rocks that has all the desirable qualities any fancier could wish for. My winnings at the greatest shows in America prove that they have the type and color that is correct. By careful selection this strain has developed utility features possessed by no other flock of Barred Rocks in America.

At Boston, 1915, in competition with the leading Eastern breeders in the best exhibit of Barred Rocks ever seen in Boston, they won 1st and 4th cocks, 1st and 2nd hens, 1st cockerel, 1st cockerel-bred hen and 1st pen, 1st and 3rd pullet-bred cocks, specials for best display, champion male, best colored male and female.

At the World's Fair, San Francisco, 1915, I entered a cock and hen and won 1st hen, 2nd cock, after shipping 3,500 miles.

At Chicago, I made a clean sweep two years in succession, competing with 654 birds, the "Aristocrats" of the West, including best display, champion male and female.

At New York, for 32 years they have won more prizes than any other strain. An entire flock of 21 pullets of this strain averaged 207 eggs in one year, again proving the superiority of my breeding method.

EGGS FOR HATCHING

From the World's Best Matings. 1 setting, \$10.00; 3 settings, \$25.00. Why not get the best? I guarantee satisfaction; write for my catalog of the Champions. It's free.

A. C. HAWKINS

Lock Box 25

LANCASTER, MASSACHUSETTS

CHOICE STOCK FOR SALE

Show birds that will win in any company, and high-class breeders that will improve your flock wonderfully. When you say "Hawkins," people know you mean quality.

Save the Babies

Reduce Your Loss of Chicks by Feeding Them With a

Simplex "Faultless" Baby Chick Feeder

The greatest contrivance yet invented to take the place of the Cluck in finding food for the little ones; and what's more, they don't have to wait until the hen is successful in finding something for them, neither must they wait for the man with the feed, get weak and lose vitality owing to proper food at the proper time.

The "Faultless" Baby Chick Feeder

is always on the job. It works like a charm, feeds the chicks nice, fresh, clean feed whenever they want it and just enough at a time with just enough exercise to keep them in good condition. Try one now and get more when your chicks start to hatch. Send for our complete catalog and find out about our profit-sharing plan.

SIMPLEX SUPPLY HOUSE Pontiac Bldg. CHICAGO, ILL.



5
Qts.

75c

For
Baby
Chicks

is to give the breeders a guide so that there will be more uniformity in our work and all work with the same object in view. Our aim should be real Barred Rocks with a low rose comb that will be better adapted to cold climates. There is another thing that should be taken into consideration; while we are making this comb improvement we should also shorten up the wattles which freeze as readily as a single comb. We claim this as a Winter breed and we should take into consideration Winter advantages.

Good Eggs.

DIRTY eggs are common at this season. The hens are in full lay. With much wet weather the soil of the runs is frequently muddy. Hens with dirty feet soil the eggs when they go to the nests.



Barred Rock cockerel, heading winning exhibition pen at Chicago Coliseum, 1915. Owned by Grant Sturman, Mt. Carmel, Ill.

You cannot make a really good egg out of a soiled one. Washed eggs are not wanted in the market, washing spoils their keeping qualities. Of course soiled eggs can be washed and used for hatching purposes, but we prefer to use clean, unwashed eggs only. We do not get a great many dirty eggs and we sell all such "dirties" to the egg collector.

To prevent dirty eggs: Be sure that nests are clean and nesting material frequently renewed; use a good, bright, clean, dry litter—not too deep—on the floor so that hens when scratching keep their feet fairly clean; renew litter frequently and do not permit it to get damp; when good litter is not available use sifted dry sand on floors; keep things clean under the roosts and use dry sand here freely; on sloppy, muddy days keep the hens shut indoors until afternoon and collect the morning's eggs when you let the fowls into the runs.

Collect eggs regularly, generally twice a day; more often if you use trap nests. Keep eggs in clean containers in a clean, well-aired cool room; a milk room or cold closet, where temperature does not fall below 40 or go above 60 degrees F. Sell, or otherwise dispose of all eggs twice a week. Use only well-shaped, firm-shelled eggs for hatching purposes.



BABY CHICKS

OUR 12TH SEASON SHIPPING CHICKS

WE furnish chicks hatched from the best Utility and Exhibition Stock. Our stock all have free range, thus insuring you good strong chicks.

Now is the time to place your orders for March and April deliveries.

	Per 25	Per 50	Per 100
S. C. W. Leghorns.....	\$2.75	\$5.00	\$10.00
S. C. B. Leghorns.....	2.50	5.00	10.00
B. P. Rocks.....	3.00	5.50	11.00
R. C. I. Reds.....	3.25	6.50	13.00
Broiler Chicks.....	2.00	4.00	8.00

Partridge P. Rocks, 50c each; can furnish only a limited number of this variety.

We also have a coal burning Colony Brooder that will successfully brood your chicks. Be sure to get our FREE illustrated catalog and price list.

20th Century Hatchery, New Washington, O.

BOX 2

(Formerly of Chatfield, Ohio.)

S. C. BUFF ORPINGTONS

WINNERS

ALLENTOWN:
Ck. 1-4; hen, 1-2; ckl. 3-4; pullet 1; pen 1-2
PHILADELPHIA:
Hen 1; pul. 1; ckl. 2; ck. 4; pen 2. (5 entries)
N. Y. State Fair, Hagerstown, Washington,
Grand Central Palace.

LAYERS

Established a 229 Egg Record in Third
North American Egg Laying Contest.
Led National Missouri Contest, Novem-
ber, 1915. Won cup for month.

CHOICE BREEDING STOCK

200 Pullets, \$2, \$3, \$5
Trios, \$10, \$15. Pens, \$15, \$25.

WRITE US
TODAY
for Circular

EGGS FOR HATCHING

\$1.50, \$3, \$5, \$8, \$10
From Finest Pens Ever Mated

OLD FORGE BUFFS are noted for their wonderful Type, Color and Egg Producing Qualities.
(Satisfaction is absolutely guaranteed)

OLD FORGE POULTRY FARM, SPRING GROVE, PA.



CHICKS

**Honest Chicks and
Honest Treatment**

Chicks that are guaranteed true to name and to reach you in right condition. If we fail to give satisfaction report us to this publication. We furnish

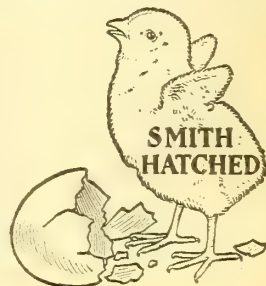
**Rocks, Reds, Orpingtons, Leghorns, Wyandottes,
Minorcas, S. C. White Leghorns in quantity**

Write for descriptive catalog, stating wants if you desire further information. Printed suggestions for brooding and feeding furnished on receipt of order.

Standard Poultry Co., Route 3 Nappanee, Ind.

CHICKS 400,000 FOR 1916

From winners at the largest shows and heavy layers for several generations. Ten times more fresh air goes through our incubators than any other system giving you greatest vitality in chicks. S. C. & R. C. White Leghorns & S. C. Brown Leghorns \$10 per 100; \$5.50 per 50; \$3 per 25. Barred P. Rocks, White P. Rocks, S. C. & R. C. Black Minorcas, White Wyandottes, S. C. & R. C. Reds, S. C. Anconas \$12.50 per 100; \$6.50 per 50; \$3.50 per 25. Our ninth season. Safe arrival and satisfaction guaranteed. **Cleveland Hatchery, 7916-18 West Madison Avenue Cleveland, Ohio.**



MONTHLY PRIZE CONTEST DEPARTMENT

The American Poultry Journal offers the following prizes monthly for the two best articles received on or before the fifteenth day of each month: For the best article, a prize of Three (\$3.00) Dollars will be awarded; for the second best article, a prize of Two (\$2.00) Dollars will be given. Articles intended for the Contest must be written on one side of the paper only and should not contain less than 1,000 nor more than 2,000 words. The articles may be written on any subject pertaining to poultry culture. We reserve the right to retain all articles submitted and to publish such as we deem worthy of space. Send all articles plainly marked to Contest Editor, American Poultry Journal, Lock Box 4, Silver Lake, Mass.

STORY OF A BEGINNER'S SUCCESS.

We Started Late in Life but We Have Kept At It and Have Succeeded and Achieved in Ten Years What Hundreds of Farmers All Around Us Have Failed To Do in a Lifetime on the Farm.—First Prize Article American Poultry Journal Contest.

By MRS. CHAS. CROSS, Sextonville, Wis.

TEN YEARS AGO on account of my husband's health, we moved from the city to a farm, and, as hundreds of others who have done likewise, we were ignorant of the first thing pertaining to farming.

I had heard and read much about the profit to be made with poultry and had determined to take a hand at raising poultry and see if I could not get my share of the "billion dollar industry."

As it was the spring of the year, we had quite a time persuading people to part with their poultry, but by persevering we finally succeeded in collecting a beautiful assortment in size and color—tho their laying propensities were not just what we expected of them.

Grains were high and money scarce and it did not take us long to see that as matters were going, there was no possible show of becoming rich from the proceeds of our poultry, as the few

eggs we were able to sell did not begin to pay for the food they consumed.

One day a neighbor gave me an AMERICAN POULTRY JOURNAL and explained to me somewhat about the different breeds of poultry, saying that she had a growing desire to own a good flock of pure bred poultry, but that her husband would not hear to her having them, in fact made a great deal of sport of all kinds of pure bred stock.

I took the AMERICAN POULTRY JOURNAL home; read, and subscribed for it and very soon learned that tho there were a great many varieties of poultry, it was not necessary to have them all in one flock, as we and a great many others seemed to have. I think it no exaggeration to state that our poultry yard at that time held representatives containing the blood of every known and many unknown breeds of poultry.

Not long after, I said to my husband as we were viewing our conglomerate flock, "Those are not hens!"

"Well, what would you call them then?"

"Scrubs, mongrels, monstrosities. But they are not to blame," I went on. "It is the ignorance of their owners who go on year after year perpetuating and despoiling the landscape with their kind."

I showed him some pictures of well bred birds, calling especial attention to a pen of White Leghorns. So it came to pass that the next spring found us with six White Leghorn hens and a cockerel

which we bought of a well known breeder—and not a scrub left on the place. Tho the seven white beauties cost us nearly as much as we got for all our scrubs, we were well satisfied with the purchase, for we had something that we could take pride in and enjoy looking at.

We bought a small incubator and started hatching all eggs from the pen of birds, but our hens seemed to be working overtime and we had to get a neighbor to hatch some of the eggs under her hens, and in addition we sold three sittings.

The following spring found us with 150 selected pullets and then we began to realize that there was a chance to make poultry pay. The next year we carried over 300 layers and used two large incubators and the small one, and the year following that, we added to our poultry pure bred White Holland turkeys, White Runner ducks and White African guineas. Today our poultry is running a close second in profits with a herd of heavy producing Holstein cows that my husband takes as much pride in as I do in my poultry.

We have had ten years of hard work on the farm and many times we could hardly see our way clear to purchase the next head of pure bred stock that we knew we must have to make the best success. But we have kept at it and have succeeded and achieved in ten years what hundreds of farmers all around us have failed to do in a lifetime on the farm. It seems to me that a great many have failed because they have no confidence in themselves or their ventures, and they are unwilling to be convinced that pure bred stock is more profitable than non-uniform scrubs. I want to add that my husband was past fifty years and myself forty when we began to farm.

Save Your Chicks From Lice

One of the greatest drawbacks to chick life and chick growth is lice. Once these pests get a firm hold, chick losses are sure to follow. Make your war on poultry lice before you set the eggs—sprinkle the nest thoroughly with Dr. Hess Instant Louse Killer; this will free the mother hen from parasites and tend to keep her quiet and contented.

Dr. Hess Instant Louse Killer

Sprinkle your poultry with it occasionally, also the roosts; put it in the dust bath and the hens will do the rest. Also kills lice on horses and cattle, sheep ticks, certain bugs on cucumber, squash and melon vines, slugs on rose bushes, etc. Put up in sifting-top cans. Your dealer will refund your money if it doesn't do what is claimed.

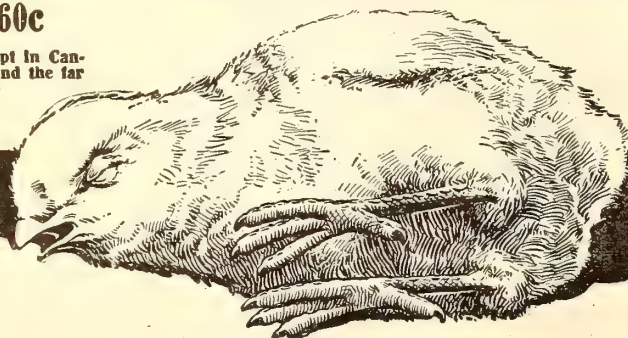
If not at your dealer's, write

DR. HESS & CLARK, Ashland, Ohio

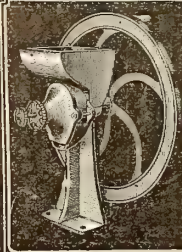
1-lb. can
25c

3-lb. can
60c

(Except in Canada and the far West)



HERE IT IS FOR \$4.00



A GREAT BIG HAND GRINDER

that will save its cost several times a year and will furnish one to two bushels per hour of fresh ground corn, oats, peas, dry bone, oyster shells, nut shells, dry stale bread, etc., for poultry feed, or will grind table meal for family use.

A child can operate it. Thousands sold annually. Shipping weight 40 lbs.

We also build a full line of Power Feed Mills, Samson Wind Mills, Gasoline Engines, Hardware Specialties. Ask for Catalogs, stating line in which you are interested.

Stover Mfg. Co., 318 Plymouth St., Freeport, Ill.

The Barred Rock Handbook (Copyrighted), 128 pages, clothbound, illustrated. Treats fully history, mating and judging Barred Rocks. Contains names and addresses of 1,100 breeders. Price 75c, including your name and address in next edition. The National Poultry Institute, Topeka, Kans.

BEST RESULTS WITH THE SITTING HEN.

Once During Each Twenty-four Hours the Broody Hen Should be Given an Opportunity to Eat, Drink, Dust, Exercise, Relieve and Rest Herself From the Strain of Long Sitting.—Second Prize Article American Poultry Journal Monthly Contest.

By OTTO E. HACKMAN, Fort Wayne, Ind.

THE NATURAL method of incubation still seems to be the only method of hatching chicks on many poultry farms today. On large poultry plants, as well as on city lots, the hen is depended upon to get out the season's crop of chicks. Those poultry keepers who have given time and thought to the subject of natural incubation, as a usual thing are rewarded with satisfactory results, while others seemingly are never able to do well in handling a broody hen.

Really, a great deal depends upon the individual who sets the hen, and more upon the way the hen is set than many care to believe. That there is a right and a wrong way to set a hen is not often taken into consideration by unthinking poultry keepers. Any "old way", or place, regardless of the hen's comfort or convenience is not conducive to good results in hatching.

For best results the sitting hen should be removed from the distraction and activity of the laying and breeding pens and all other conditions should be made as favorable for her period of quiet as possible. Have the nests for hatching in a quiet secluded place with a suitable yard for exercise attached. The nest boxes should be of medium size, American varieties requiring a nest about fifteen inches square and the same number of inches high. The front of the nest, however, should not be of the same height as the sides and the back. The front should be open, excepting a space five inches high at the bottom of the nest, where a board of that height is nailed across the front for the purpose of keeping the nest and its contents intact. The top of the nest should be covered, tho it is not advisable to have it nailed down. A great many times it will be found convenient to lift the hen from the nest thru the top of the nest, for sometimes in removing her from the front opening eggs are pulled out with her and broken. The top may be hinged, hooked down, or weighted to hold it in place.

If the broody is trustworthy the front may remain open for the hen to leave and enter at will, but in case she is not to be trusted, this same method may be employed at certain intervals during the day, taking care not to leave the front open for any great length of time. The hen should never be allowed to leave the nest or enter it by means of the top opening, except when removed by the poultryman, because of her liability to break the eggs by jumping down upon them.

After selecting the location and the nest for the broody, cover the bottom of the nest with several thicknesses of paper to prevent drafts from entering thru cracks in bottom of nest. Then cut a piece of sod just a little larger than the inside dimensions of the nest box, and place in the bottom of the nest with the grass side down. The corners and outer edges of the sod should be filled



DANGEROUS COMPANIONS FOR HEALTHY CHICKS

When White Diarrhea attacks one of your little chicks, watch out for trouble, because white diarrhea is contagious, spreads rapidly and often carries off the whole hatch. At the first sign of it, disinfect the entire equipment, move the chicks to new ground, put

Conkey's WHITE DIARRHEA REMEDY

in the drinking water. Separate the sick chicks from the rest and treat them according to directions on the package.

Better still, put Conkey's White Diarrhea Remedy in the water before the disease appears, then you'll not worry later. Packages 25c and 50c.

CONKEY'S GAPE REMEDY effectively rids chicks of gape worms. Unless treated, the chicks will choke to death. Results guaranteed. 25c and 50c.

CONKEY'S ROUP REMEDY—Used and recommended by practical poultrymen. Always have it ready this uncertain weather. Put it in the drinking water. It prevents as well as conquers roup. 25c to \$1.00.



THE G. E. CONKEY CO
1000 Conkey Bld., Cleveland Ohio

Ironclad Wins in the Two BIGGEST HATCHING Contests Ever Held

Why take chances with untried machines when for only \$10 we guarantee to deliver safely, all freight charges paid (East of Rockies), BOTH of these big prize winning machines fully equipped, set up ready for use?

Why not own an IRONCLAD—the incubator that has for two years in succession won the greatest hatching contest ever held? In the last contest conducted by Missouri Valley Farmer and Nebraska Farm Journal, 2,000 Machines were entered including practically every make, style and price. With 140-egg Ironclad—the same machine we offer with Brooder freight paid, for only \$10, Mrs. C. F. Merrick, Lockney, Texas, hatched 148 chicks from 148 eggs in the last contest.



140
EGG

Ironclads are not covered with cheap tin or other thin metal and painted like some do to cover up poor quality of material.

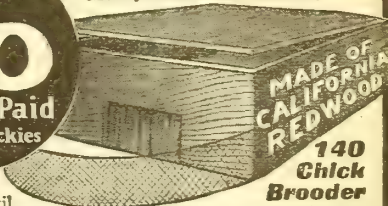
Ironclads are shipped in the Natural color—you can see exactly what you are getting. Don't class this big, all metal covered, dependable hatcher with cheaply constructed machines—and don't buy any incubator until you know what it is made of. Note these Ironclad specifications: Genuine California Redwood, triple walls, asbestos lining, galvanized iron covering, galvanized iron legs, large egg tray, extra deep chick nursery—hot water top heat, copper tanks and boiler, self regulator, Tyco's Thermometer, glass in door, set up complete ready for use and many other special advantages fully explained in Free Catalog. Write for it TODAY or order direct from this advertisement.

IRONCLAD INCUBATOR COMPANY, Box 49 RACINE, WIS.

30 Days Free Trial

Money Back if not Satisfied

Both
for
\$10
Freight Paid
East of Rockies



140
Chick
Brooder

Tarbox's Silver Wyandottes

Winners at the World's Greatest Show, Panama-Pacific Exposition. We made 9 entries and placed them all. Winning one-half of the regular prize money, also \$20.00 special for best Cock, Hen, Cockerel and Pullet.

EGGS EGGS EGGS EGGS
For the first time in about 15 years we have decided to put eggs for hatching on the market and will sell a limited number of settings from our best pens. Send for mating list. Stock for sale at all times. Don't fail to get our prices on same before buying. Send for catalog giving full list of winnings for season.

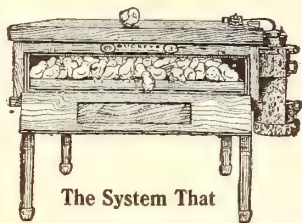
A. & E. TARBOX

Box A

YORKVILLE, ILLINOIS

"Buckeye" The Standard

"The Best Incubator Made"



The System That

**HATCHES MORE CHICKS
AND
HATCHES BETTER CHICKS**

Than any other incubator regardless of size, price or method.

Recognized by the largest breeders and the largest poultry supply dealers as the safest and surest incubator ever built. Every machine a guaranteed success.

It's the Best Incubator Made

● Not the cheapest incubator but the best.

It's the incubator that is built UP to a standard and not DOWN to a price. That's why the "Buckeye" is sold by more reliable dealers than all the others combined—that's why so many of the large, successful breeders will use no other. The "Buckeye" is sold by more than two thousand of the largest poultry supply dealers and there are over 400,000 in successful operation! Let us send you a list of some of the big breeders who use the "Buckeye" and their reasons for using it. Let us send you the names of the largest dealers and their reasons for selling it. Let us tell you about the wonderful success of the "Buckeye" system and why so many have tried to imitate it. The "Buckeye" is made in seven sizes—60 eggs to 600 eggs.

600 Eggs	-	-	\$50.00
200 Eggs	-	-	17.50
110 Eggs	-	-	12.50
60 Eggs	-	-	7.50

SOLD ON 40 DAYS TRIAL

and guaranteed to hatch every hatchable egg.

Try a "Buckeye" in the same room with any other incubator and if it doesn't hatch more chicks and better chicks the first time you try it, we'll take it back.

Write for "Buckeye" Catalog and Proof of "Buckeye" Superiority

The Buckeye Incubator Co.

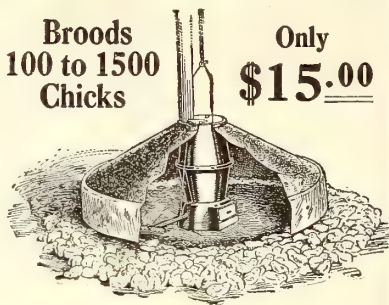
501 Euclid Ave.

Springfield, O.

Note: Prices are a little higher west of the Rockies on account of freight rates.

COLONY BROODER

Broods
100 to 1500
Chicks
Only
\$15.00



The Greatest Coal Burning Brooder Ever Invented

Self Feeding—Self Regulating—Everlasting. Heavy cast iron stove that requires coaling but once in 24 hours in any temperature.

Fifty-two inch hover that will positively brood 1500 newly-hatched chicks.

30 Days Free Trial

The Standard Colony brooder is the most practical brooding device ever invented. It will do anything and everything that any other brooder will do and do it better. It is infinitely more satisfactory than brooders selling at twice the price. We are so positive that it can not fail that we will permit you to try one for thirty days and

Write Your Own Money-Back Guarantee

Sold and guaranteed by dealers everywhere at \$15.00. Insist on the "Standard" and beware of imitations. Write us for a "Standard" Catalog and we will tell you how to grow three chickens where one grew before.

under with fine straw or other nesting material, to give the nest a slightly concave shape. This slight hollow in the centre will have a tendency to keep the eggs together and prevent their rolling out and becoming chilled. The hollow should not be so deep, however, that the eggs will bunch up in the centre. Have it in such shape that the eggs will stay together nicely and at the same time may be shifted around easily. Fill in with some soft material that packs down well.

A good hatch often depends upon the number of eggs placed in the nest. Fifteen eggs are many times put under a hen, but I find that unless the hen is very large and the weather warm, that this is too many. If the hen cannot properly cover the eggs, those on the outer edge are constantly shifted about, all the eggs will be on the outer edge at some time during the hatch, and the entire hatch may be thus endangered. Some may think that because they have extra large hens, fifteen eggs will not be too many, but it is never advisable to use very large hens for sitting purposes, since they are almost invariably more or less awkward and clumsy on the nest. A medium sized hen, if in good flesh and of good disposition, always gives the best results in hatching and rearing chicks.

When the weather is cold, it is well to limit the number of eggs to eleven, but as the season advances and the weather becomes milder, the sitter may be given thirteen eggs with safety. During the hot summer months a hen may properly incubate fifteen eggs, for at that time there will be no need of keeping them covered closely. Should any eggs become broken during the hatch, be sure to wash those soiled with tepid water immediately.

Early in the season it is advisable to set the broodies inside a building. The floor should be of earth if possible and it is well to loosen up the earth a bit that the hens may be able to dust themselves when off duty. This aids greatly in keeping down lice, which in turn is quite essential in keeping broodies contented. Before being placed on the nest and at least once before the hatch comes off, the hen should be well dusted with a good louse powder.

Give the broodies good wholesome grains. Soft food is not advisable during the sitting period. Any good grain is relished, but whole corn is preferable, as it aids most in maintaining bodily heat. Green food should be supplied and fresh water should be before the sitting hen at all times. Once during each twenty-four hours the broody hen should be given an opportunity to eat, drink, dust, exercise, relieve and rest herself from the strain of sitting for three weeks, (and sometimes six or more weeks), in practically one position. Give the sitting hen a chance and she will show what she can do.



SILVER and GOLDEN CAMPINES

The Egg and Money Makers

Eggs for hatching—that will hatch—from the grandest birds that are properly mated for best results. Bulletin of facts free. My book "Campineology," de luxe and two-colored plates, 10c.

J. FRED N. KENNEDY
Box F Birch Cliff, Ont., Can.

ROUP CURE

that is guaranteed in every way. Order a 50-cent package today and save dollars in keeping your flock in perfect health. **W. O. McCURUM,**
1101 W. Main St. Decatur, Ill.

LOOK Before You Buy BOOK

Send for This FREE

Even if you are going into the poultry business in only a small way you can't be too careful in selecting the incubator you will use. Spoiled eggs, weak chicks and other losses will soon eat up your profits if you start with a poorly constructed, unscientific outfit.

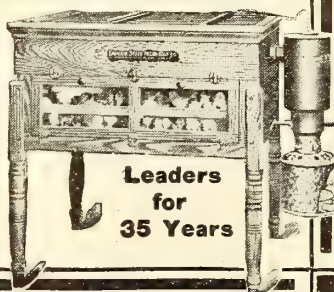
Prairie State Incubators and Brooders

—insure largest possible success. Easy to operate—roomy—economical in the use of fuel and entirely safe. Approved by the National Board of Underwriters. Have exclusive features not found in any other machines on the market.

"Hatch Most Chicks That Live"

Prairie State Incubators are famous the world over for hatching the largest number of strong, healthy chicks—the kind that develop rapidly—mature early and pay biggest profits. Used and endorsed by Poultry experts and leading Agricultural Colleges the world over. Don't buy any incubator until you get the 1916 Prairie State catalog. A postal brings it to you free and postpaid. Contains chapter on hatching, rearing and prevention and treatment of poultry diseases.

Prairie State Incubator Co. 201 Main St., Homer City, Pa.



Leaders
for
35 Years

Recent Inventions for Poultrymen

By Lester L. Sargent, Patent Attorney, Washington, D.C.

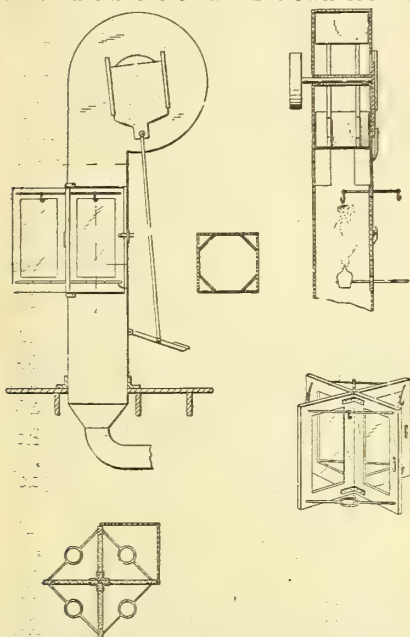
AN UNUSUAL poultry invention has recently been patented by William Short, of Denison, Iowa. It is a machine for defeathering chickens. The fowl—four of them—are hung between the leaves of a rotatable carrier device which is X-shaped in cross section. One-fourth of this rotatable carrier is positioned within a vertical air conduit thru which a current of air is blown from a

feathered the other fowls may be mounted in the carrier. The patent is 1,171,669.

A poultry trough or feeder that is inaccessible to rats or mice has been devised by Harry Slater, Indiana, Pa. It is cylindrical, with a curved door that can be slid over the open upper portion, when desired. The trough has partitions to separate the different kinds of feed. The patent is 1,172,913.

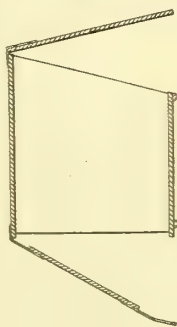
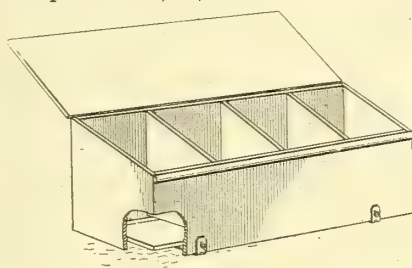
A nest with a cover that can be raised and a bottom that can be lowered has been patented by William A. Kuntz and Lambert M. Christopherson, Wolsey, S. D. This construction makes the nest easy to clean and provides a nest that may be closed at night to prevent setting hens from occupying the nest. The patent is No. 1,173,813.

Harve O. Sherrick, of Toledo, O., has invented a trap nest having a pivoted spring wire arranged to release the normally open door and allow it to close by gravity when the hen enters. The hen must be removed and the nest reset by hand. The patent is No. 1,172,638.

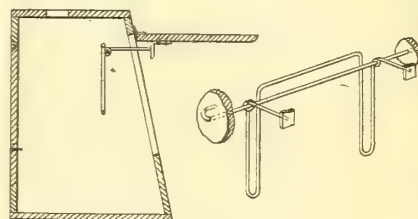
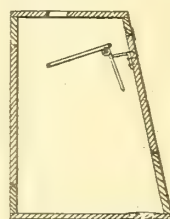
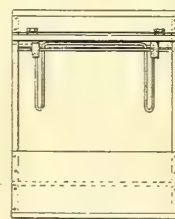


A machine for dressing chickens. Patented February 15, 1916, by W. Short, Denison, Iowa. No. 1,171,669.

rotary fan above. The conduit terminates at its lower end in the pipe thru which the feathers are blown by the air current from the fan. This is a much more satisfactory disposition of the feathers than to have them flying around the building. The device greatly expedites the dressing of fowls. The condition of the fowl can be observed thru the transparent panes in the wings of the rotatable carrier. No time is lost as while one of the fowls is being de-



Nest. Patented February 29, 1916, by W. A. Kuntz and L. M. Christopherson, Wolsey, S. D. No. 1,173,813.



Hen's nest. Patented February 22, 1916, by H. O. Sherrick, Toledo, O. No. 1,172,638.



Ponies Given Away

I AM the Pony King of America. I have given away 364 Ponies to Children. Now, I am going to give away **more Ponies**—some of the finest Shetland Ponies I could pick. I want every family that reads this paper to stand an equal chance. If you are a Boy or Girl, send in your name. If you are the Father or Mother of a Boy or Girl, send in your child's name. I will enter the name in my Big Free-for-all Pony Club, and send you a copy of my Pony picture and Story Book. Every child in the country should have one of these books.

Children—Write your name and address below, cut it out and mail it to me. You will surely get the Pony Book and maybe get a real Pony besides.

Parents—Don't miss this chance to get this to read it. Besides, your child may get one of the Ponies.

Pony
Picture
and
Story
Book

Pony Book Free

Send Your
Name

Address Your Letter or Postal to
The Pony King

610 E. 10th St.,

St. Paul, Minn.

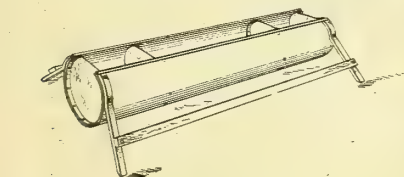
The Pony King, 610 E. 10th St., St. Paul, Minn.

I want the Free Pony Picture Book and I would like to have one of your Free Ponies.

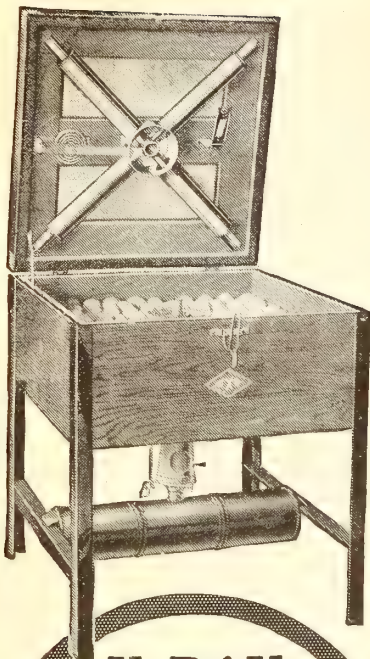
Name.....

Postoffice.....

State.....R. F. D.....



Poultry trough or feeder. Patented February 22, 1916, by H. Slater, Indiana, Pa. No. 1,172,913.



X-RAY

Uses 4 to 5 Times
Less Oil Than Any Other
Incubator
One Gallon—One Filling

ALL the bother and almost all the expense cut out. Fill the X-Ray tank when you put in the eggs—then forget it. The X-Ray duplex heater, squarely underneath where it ought to be, does all the work. The X-Ray automatic trip does the remembering. Too much heat—it lowers the flame; not enough heat—it increases the flame. X-Ray is the answer to

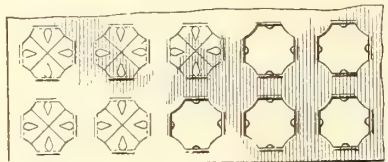
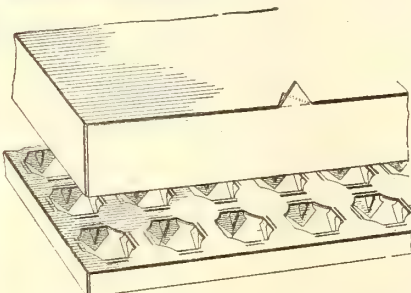
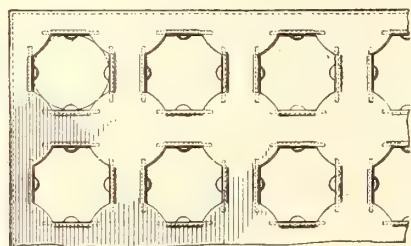
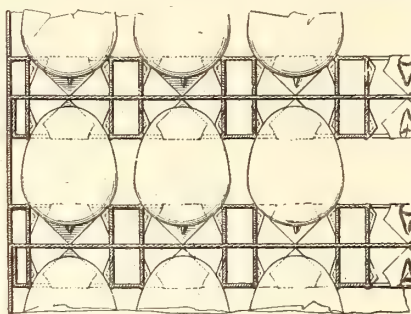
Biggest Hatches Least Trouble Minimum Expense

The X-Ray vapor generator supplies the exact amount of moisture. The X-Ray ventilator provides the exact amount of pure fresh air. The X-Ray perfectly level egg tray leaves the entire space available for eggs. The X-Ray hinged glass top permits reading the thermometer and watching the hatch without lifting the lid.

X-Ray by Express Prepaid is another new feature. No more costly delays—X-Ray by fast express prepaid to practically all points. Send for X-Ray free book No. 10 today. Learn why thousands of X-Ray Incubators and Brooders are in actual use throughout the world.

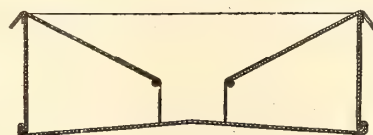
The X-Ray Incubator Co.
Dept. 10
Des Moines
Iowa

An inexpensive egg holder and carrier for the shipment of eggs has been devised by Jesse M. Harr, Washington, D. C. Tongues are punched at right angles to each other to provide a socket for the end of the egg. An intervening



Egg holder and carrier. Patented February 29, 1916, by J. M. Harr, Washington, D. C. No. 1,174,005.

sheet is arranged between each layer of eggs as a further protection. This carrier can be used either side up and will stand rough handling. The patent is No. 1,174,005.



Hen's nest. Patented February 22, 1916, by J. J. Splitek, Faith, S. D. No. 1,172,494.



A Real Necessity About Poultry Yards
and Buildings.

INEXPENSIVE. EFFICIENT. UNIFORM.
EASY TO USE.

KRESO DIP NO. 1

will put an end to LICE and MITES;
stop loss from contagious disease;
CLEANSE, PURIFY AND DEODORIZE.

One Gallon Makes 100 Gallons

of disinfectant solution ready for immediate use.

Spray or sprinkle it about the poultry buildings and runs. Put a little in the drinking water. Dip the birds if they are badly infested with lice.

This is the best possible means of insuring the health and thrift of your flock.

Make all live stock quarters sanitary by using it to prevent contagious diseases.

Scientific tests on live hogs prove that a 2½% dilution of KRESO DIP NO. 1 will kill the most virulent HOG CHOLERA VIRUS in 5 minutes by contact.

Write for free booklets telling how to prevent common animal diseases.

Buy Kreso Dip No. 1 in original packages from your druggist.

PARKE, DAVIS & CO.

Dept. of Animal Industry.

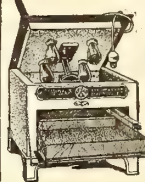
DETROIT MICHIGAN

Hatch Chicks The Modern Way

Hatch 'em by electricity

This energizing force enables you to hatch chicks with but a fraction of the labor and risk involved in operating other machines.

The control of heat, moisture and ventilation is absolutely dependable. No guessing, no watching, no filling of lamps and trimming of wicks. The operation is perfect and insures a strong, vigorous chick from every hatchable egg.



Lo-Glo Electric Incubators

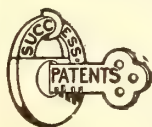
Make the hatching of chicks a real pleasure. These perfect machines are all metal, fire-proof, odorless, sweet and sanitary. Handsomely finished and may be operated in any room, store or office. Many users place them in the parlor or dining room. They're simple, practical and efficient. Sizes from 50 to 400 eggs.

Successful, no worry, hatching insured by doing it electrically. Fully explained in our booklet.

Lo-Glo Hovers successfully carry on the splendid development of chicks started in the right way by our incubators. Sizes 50 chicks and up. Write for free booklet.

Lo-Glo Electric Incubator Co., Inc.
76 Greenwich Street - New York, U. S. A.

Patent Your Ideas

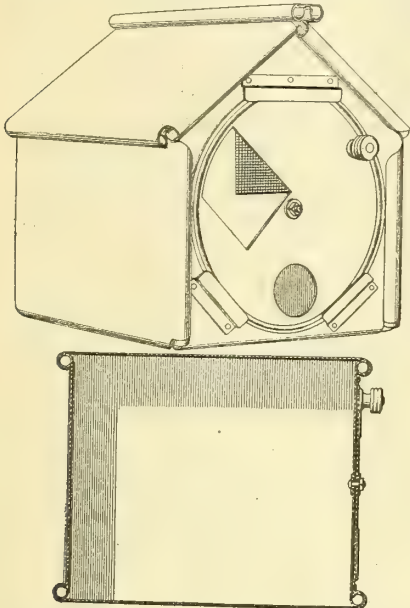


Inventions bring fortunes when protected by good patents. New ideas in great demand. I will get a valuable patent for you and help you make money from it. Ask about my free advice.

LESTER L. SARGENT
Cor. 9th and G Sts. Washington, D. C.

A hen's nest with an opening at the bottom of the upper nest portion designed to trap the eggs so that they will be out of reach of the hen as soon as laid has been devised by John J. Splitek, of Faith, S. D. The patent is No. 1,172,494.

A poultry coop that can be readily collapsed and which has an opening that releases the chicken while retaining the



Collapsible poultry coop. Patented February 29, 1916, by I. C. McDaniel, Kansas, O. No. 1,173,823.

hen in the coop is the invention of Ira C. McDaniel, of Kansas, O. The patent number is 1,173,823. The device involves no startling new features.

Brood Hens With Chicks.

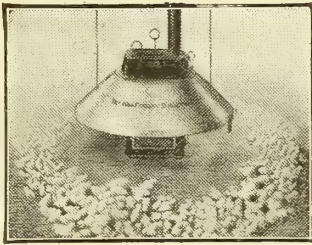
BROOD coops should be so made that the mother hen can be comfortably confined, while the chicks have a good sized run or abundant grass range. If necessary to allow the chicks only a small run, they should be removed to new ground frequently.

Give the mother hen her regular rations and water supply where she can get at them easily. Feed the chick food and other dainties for the youngsters just out of reach of the old hen. This will help to save expensive food and, if feeding boards or litter boxes are used, it will prevent chick foods being scattered around on the ground to waste and spoil. Feed liberally, but do not leave food around to sour and poison your chicks.

Provide shelter from sun and storms. Harden the chicks by giving them an opportunity to run to the weather, but be sure that they have shelter where they can get to it in a hurry.

Do not have brood coops too close together. Brood hens are liable to kill chicks not their own, if such stray within reach. Clean the coops and runs regularly and keep them clean.

The WORLD'S GREATEST BROODERS



Famous for High-Grade Construction and Efficiency

The Hill Colony Brooder - \$30.00
The Magic Brooder - 15.00

Both fitted with top and bottom draught regulation. These brooders are the great life savers of the Chick World. They are used on many of the State Agricultural Farms throughout this country. Our brooders will positively hold the fire; never leak gas; maintain an even temperature and require attention only twice a day. If you wish to succeed you must have brooders which will do the work. We will cheerfully refund the money after 30 days' trial if our brooders do not do all we claim. Write today for free booklet describing "The Turn-Point in a Poultryman's Career." You will find it intensely interesting. Agents

Wanted.

UNITED BROODER CO., - TRENTON, N. J., U. S. A.

WINNER OF EVERY FIRST PRIZE

Champion Male : Champion Female

Panama-Pacific International Exposition, San Francisco, Nov., 1915

Single Comb WHITE LEGHORNS

Exhibition, Breeding and Foundation Stock. Eggs for Hatching.

WRITE FOR FREE CATALOG AND MATING LIST

RANCHO DEL MARTINO

MRS. E. B. MARTIN

Downey, California



MAPLESIDE BRED-TO-LAY

Barred Plymouth Rocks

ACKNOWLEDGE NO SUPERIORS AS LAYERS

Fully 54% of all 1914 Pullets on hand Jan. 8, 1916, averaged 202 eggs each in one year.

Eggs for Hatching—10c each; \$4.00 per 50; \$7.50 per 100. From Selected Matings—\$3.00 per dozen. DAY-OLD CHICKS.

Circular of Facts Free

O. F. MITTENDORFF, Box F, Lincoln, Ill.

You do not experiment if you buy your eggs from the Decatur S. C. Red Yards

They always win. Why not you? Our young stock from this season's hatching is now showing the results of close culling and careful matings. We have four first-class pens to select from. Pens 1 and 2 are \$5.00 per 15 eggs; pens 3 and 4 are \$3.00 per setting, or two settings for \$5.00. Write us your wants, for we are sure the results will please you.

JOHN STARWALT 833 East Wood St., DECATUR, ILL.

Eggs for Hatching and Baby Chicks S. C. WHITE LEGHORNS

Prize winners at the Panama-Pacific Exposition, Ohio State Fair and Zanesville, O., 1915. Eggs \$1.00, \$2.00, \$3.00 and \$5.00 for 15. Per hundred, \$5.00 up. Baby chicks \$10.00 per hundred. W. F. Black Spanish prize winners at Ohio State Fair. Eggs, \$2.00 per 15. Send for mating list. Free.

J. W. FRIESNER & SON Box C BREMEN, OHIO

HARBIN'S S. C. WHITE ORPINGTONS LED ALL

ORPINGTONS AT THE NATIONAL EGG LAYING CONTEST IN FEBRUARY

My laying strain is unsurpassed. My birds are also show winners; BEST DISPLAY at three shows; higher honors than any other Illinois Breeder Great MID-WEST SHOW at COLISEUM. All pens most scientifically mated, now showing strong fertility. All females trapnested. Valuable booklet to all customers. 24 individual ribbon winners in my pens. Hatching eggs reasonable, considering quality. Mating List and particulars Free.

EDMOND J. HARBIN

P. O. BOX A-457

RIVERSIDE, ILLINOIS

MOELLER'S WHITE LEGHORNS

EGGS FOR HATCHING AND BABY CHICKS

From my grand champion winners at Quincy, 1915, where the largest and best class of Leghorns ever assembled in the midwest. They won as follows: 1st and 3rd cockerel; 1st, 2d and 4th pullet; special for best colored male; 2d pen; champion male of the Leghorn class; gold special for best display. Eggs from these grand winners, \$5.00 and \$3.00 per setting of 15. Utility eggs \$5.00 per 100; chicks, \$12.00 per 100. I guarantee to replace all unfertile eggs and safe arrival of chicks.

C. W. MOELLER

Box 278

QUINCY, ILLINOIS

LOUSY CHICKENS Won't Lay

Therefore paint your poultry house once a year with—

Avenarius Carbolineum

and protect your chickens against mites.

Write for Bulletin 33

CARBOLINEUM WOOD PRESERVING CO.

Dept. 50 Milwaukee, Wis.

Womans Success With Poultry

Helen T. Woods, Editor
A Department for the Exchange of Helpful Poultry Experiences



S. C. WHITE LEGHORNS FILL THE BILL.

A Large Per Cent of the Big Egg Farms Are Stocked With Leghorns. But No Matter What Object He Has in View, the Producer Must Ever Keep in Mind That a Steady Growth, From the Time the Chick is Hatched Until Matured, is Necessary for the Development of a Good Specimen.

By MRS. F. M. KELLEY, Mt. Carmel, Ill.

THE S. C. W. LEGHORN needs no introduction, for they have long been famous as prolific producers of large white shelled, uniform and fine flavored eggs, that always find a ready market at highest prices.

No doubt other breeds will make as

good layers as the S. C. W. Leghorn if they are bred to lay, but Leghorns have more than a half century start over the others.

Given proper housing and care they are the hardiest of fowls, thriving in any climate, a paying proposition to the back yard fancier, as well as the man with unlimited space. They are great foragers and will get most of their food if allowed to range, tho they stand confinement well, and we never have any trouble keeping them within a five-foot wire fence. We use open-front houses, covering opening with burlap in severe weather and never have frozen combs.

We can house and keep three Leghorns on same space and food, and get larger individual returns for each bird than two of the American or Asiatic varieties and that is quite an item in these days of high feed bills.

It requires less work to almost double

our profit than when raising the so-called general purpose fowl.

We have never had birds respond more quickly to kind and intelligent treatment; ours are the greatest of pets and seem to enjoy our being near them.

A large per cent of the Big Egg Farms of this country, England, Australia and New Zealand are stocked with S. C. W. Leghorns exclusively. Why? Because they fill the bill. No sentiment there, only a business proposition, and no man or corporation would keep a breed year after year, if he could get better results with some other. The birds are the machines that convert the raw product "food" into the finished product "eggs" and without an efficient, well balanced machine this cannot be accomplished at a profit.

Look up the egg contests and note which breed wins, not only in one year but three-year tests, thus demonstrating

**PREMIER
STRAIN**



BARRED PLYMOUTH ROCKS

bred and owned by O.B. ANDREWS CHATTANOOGA, TENN.

that the Leghorn has a longer sphere of usefulness than other breeds.

No wonder the demand for these thrifty little birds increases yearly. Thus there is always a ready sale for hatching eggs and well grown cockerels and a small advertisement in a good poultry magazine usually disposes of surplus stock. The beginner can enter the ranks from the first, and by giving his customers square treatment can build a foundation of future business. The Leghorns' eggs are strongly fertile and hatch strong, easily raised chicks if parent stock is of right kind. We use artificial hatching and brooding; the little fellows being so pert and saucy, quickly learn to take care of themselves. They have nice plump breasts and reach the broiler size more quickly than any other breed and are in demand also as squab broilers. Pullets reach maturity and the laying stage fully two months earlier than their heavier sisters. To get good chicks we must be sure of our breeding stock. Start with the best you can afford. Get your eggs or stock from a reliable breeder, then by selecting only your best for breeding purposes with an occasional purchase of new blood, steadily improve your flock. Remember, when buying stock, it's the breeding back of a bird that counts. It costs time, study and labor to produce choice birds. The man who has been trap-nesting for eggs, carefully mating and breeding each year only from his best, is entitled to better prices than another who is doing haphazard, hit or miss work.

Trap-nesting is a good way to improve your flock, either in fancy or egg production, for here we have positive proof of what each bird is worth, both as a layer and producer of show specimens. When we first began to breed S. C. W. Leghorns, we were told that the egg and show birds were two distinct types, tho we found some of our best layers among the ones conforming most closely to Standard requirements. We had been fortunate in our selection of a breeder. I think that in early years, some of the Leghorn breeders, anxious to perfect show specimens, neglected productiveness for shape, but I believe that day has passed, for our foremost fanciers of today are very particular in building up paying qualities with the fancy. To be successful in breeding, select your best laying females of Standard type. Cull closely, for it is far better to use two good birds than a dozen indifferent ones. Most beginners make the mistake of using all the flock, trusting to luck or chance to breed out defects later, but go slow. By breeding only your best at all times you will find a continuous improvement which would be an impossibility were the entire flock used. Select birds of good, vigorous constitution, hens preferred to pullets. Birds of long, rather deep bodies, with abundant room for digestive and productive organs, that eat heartily. The first out and last on roosts at night are usually heavy producers.

Never use a bird that has ever had any disease. Any bird once affected should be conspicuously marked so that it will never find its way into the breeding pen, for the foundation of a successful poultry plant is health and constitutional vigor. Remember the male is half the pen, and should be selected with greatest of care. We find it better to have a good bird, sound qualities in all sections, than one phenomenally good in one or two sections and poor in the rest. A good all around specimen insures a gen-



Reduced Prices May 1st

Beginning May 1st prices on all Pittsfield Day-old Chicks will be reduced each week, because of larger egg production and better hatches. Leghorns will be reduced ½ cent each; all others ¾ cent each. (Each week during balance of season.)

PITTSFIELD —PURE-BRED— Day-Old Chicks

April Prices	For 25	For 50	For 100
Barred Rocks	\$5.00	\$10.00	\$18.00
White Rocks	5.00	10.00	18.00
S. C. Rhode Island Reds	5.00	10.00	18.00
S. C. W. Leghorns	4.25	8.50	15.00
White Wyandottes	6.00	12.00	22.00

THE RIGHT START

Only a well-bred chick can be the biggest money-maker for you. A right start with the famous Pittsfield Strain will cut out the uncertainty. With ordinary care they produce extraordinary profits. Prices are very low.

Order Now — We'll Ship Any Time

Just tell us how many you want—which breed—when we shall ship.

PITTSFIELD POULTRY FARMS CO., 190 Main Street, HOLLISTON, MASS.

RAU'S Blue Orpingtons Speckled Sussex

For BEAUTY—For USEFULNESS—They FILL THE BILL

For three seasons I have picked the hottest competition, but my birds have NEVER BEEN BEATEN. At Chicago Coliseum, Indianapolis, Greater Chicago and Milwaukee this season they won the "Lion's Share" of the Blues and Specials. My mated pens contain my winners and will produce rich quality, yet I ask only \$3.00, \$5.00 and \$7.00 per 15 eggs. Write for my 1916 Mating List of America's leading Blues. Some fine birds for sale. Every sale on approval.

Get my kind of Blues and your chicken business will pay you.

FRED RAU Grand Hotel Indianapolis, Ind.

PARTRIDGE PLYMOUTH ROCKS

Our Coliseum, Chicago, and Michigan State Fair winners and winners elsewhere were produced by single mating. EGGS—\$3.00, \$5.00, \$7.50 per 15; \$7.50 per 100. Cockerels half price.

MEADOWLAWN POULTRY YARDS

Dept. C. D.

SAND CREEK, MICHIGAN

No Sunday Business

A Clean Sweep at THREE of the LARGEST SHOWS in the WEST

11 first, 10 seconds, 6 thirds, 5 fourths, 16 specials, including silver cup for the best pen in Asiatic class, silver cup for the best cock in show, American class excepted. Nine yards of choice birds mated, Light Brahmas, Barred Rocks, S. C. W. Leghorns. Send for catalog.

W. H. WARD

Nickerson, Kansas



EGGS or CHICKS From Our QUALITY Bred-to-Lay S. C. WH. LEGHORNS

will start you right and at prices that will surprise you. Chix, strong, sturdy, vigorous fellows, at \$11 per 100 for April, \$10 per 100 for May. Eggs at \$1 per 15, \$5 per 100 (90% fertility guaranteed). At least get our free catalog before ordering elsewhere.

The Elliott Poultry Farm, Box 87, R. 7, Mansfield, Ohio

GASSMANN'S WHITE ORPINGTONS

Winners Illinois State Fair, 1915.

Greater Chicago Show, 1916

HENRY GASSMANN

Mating List now ready—it's FREE
502 South Fair Street

OLNEY, ILLINOIS

White Rocks of Quality!

Hatching eggs from high scoring birds. Fine Layers. Write for mating list. Satisfaction guaranteed.
MRS. L. R. BUELL : : : LAKE GENEVA, WIS.

Read "A Revolution in Egg Production"—Ad on Page 655.

eral evenness of quality, much to be desired in a flock. We like to select as a male the son of a heavy layer. Well shaped, perfectly developed, bright of eye and alert of carriage,—a good description in a nutshell of what is essential in the male. Have him strong in sections in which the females are weakest.

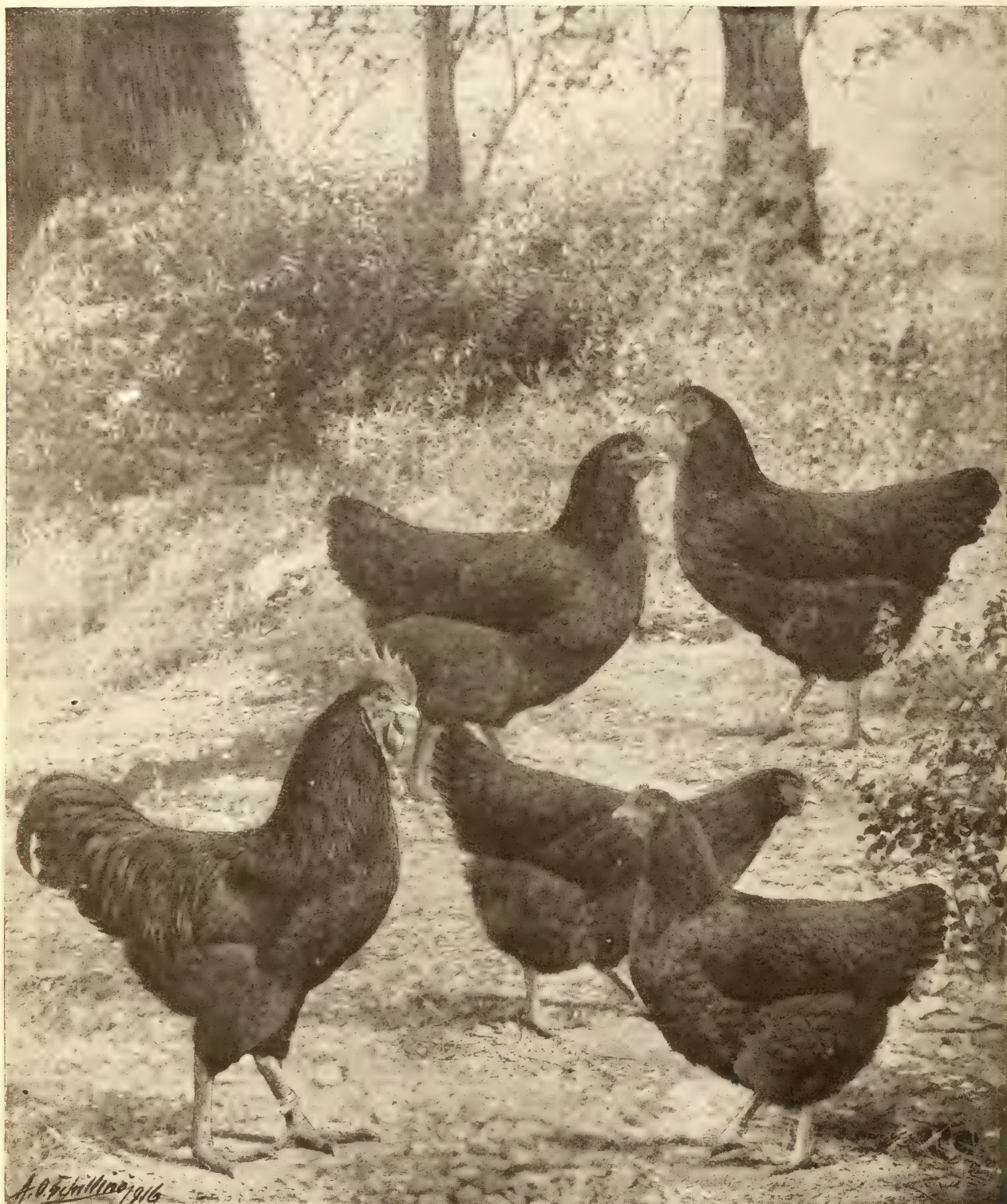
When attending the poultry shows note the large classes of S. C. W. Leghorns, usually the largest in the show room. This alone attests their popularity. Then turn the pages of this magazine and count the numbers of S. C. W.

Leghorn breeders. Doesn't that tell a tale?

After the chicks are hatched, a steady growth should be kept up. Any setback in the development of young chicks is sure to affect the perfection of the adult. Feed only wholesome grains and mashes and supply green food liberally thruout the days of the chick's development. It is true that adult fowls can manage to get along and lay a fair percentage of eggs with a very meagre supply of green stuffs, but I do not believe that a good

well developed pullet or cockerel has been produced without having green food in plenty during the growing period. See that fresh water is supplied the chicks at all times and if it is a possible thing, provide them with a good range.

In producing good specimens of any variety it is most essential that these things be taken into consideration, for no matter how fine the stock back of the chicks may be, if they are not given a chance to properly develop, their high bred ancestry will avail them naught.



20 FIRST PRIZE PEN S. C. R. I. REDS MADISON SQ. GARDEN, NEW YORK
DEC. 1915-16 BRED AND OWNED BY B. H. SCRANTON RISING SUN, IND. **66**

Home and the Table

Good Things for Everybody

Helen F. Woods
Editor

The primal duty of Americans is never to forget that men are more than nations; that wisdom is more than glory, and virtue more than dominion of the sea. The greatness of a nation lies not in its bigness but in its justice, in the wisdom and virtue of its people, and in the prosperity of their individual affairs. The nation exists for its men, never the men for the nation.—David Starr Jordan.

* * *

THE following extract taken from the writings of Dr. Samuel Johnson, one of England's most distinguished writers of the eighteenth century is of particular interest to thinking people at the present time, and we take great pleasure in presenting it herewith for the benefit of our readers:

A BATTLE FIELD PICTURE.

As I was sitting within a hollow rock, watching my sheep that fed in the valley, I heard two vultures on the summit of a cliff, crying to each other. The voices of both were earnest and deliberate.

My curiosity got the better of me, and leaving my flock, I climbed slowly and silently from crag to crag, concealed among shrubs, till I found a cavity where I might sit and listen without giving disturbance.

I soon perceived that my labor would be well repaid, for an old vulture was sitting on a naked prominence with her young about her, whom she was instructing in the arts of a vulture's life; and this last lecture of hers was apparently a preparation for their final dismissal to the mountains and skies.

"My children," said the vulture, "you will need my instructing the less because you have had my practice before your eyes. You have seen me snatch from the farm the household fowl; you have seen me seize the leveret in the bush and the kid in the pasture; you know how to fix your talons, and how to balance your flight when you are laden with prey. But you remember the taste of a more delicious food. I have often feasted you with the flesh of man."

"Tell us," said the young vultures. "Where man may be found and how he may be known? His flesh is surely the natural food of a vulture. Why have you never brought a man in your talons to the nest?"

"He is too bulky," said the mother. "When we find a man we can only tear away his flesh and leave his bones upon the ground."

"Since man is big," said the young ones, "how do you kill him? You are afraid of the wolf and of the bear. By what power are vultures superior to man? Is man more defenseless than sheep?"

"We have not the strength of man," returned the mother. "And the vulture would seldom feed upon his flesh had not Nature, that devoted him to our nourishment, infused into him a strange ferocity which I have never observed in any other being that lives upon earth."

"Two herds of men," she continued,

"will often meet, shake the earth with noise and fill the air with fire. When you hear noise and see fire, with flashes along the ground, hasten to the place with your swiftest wing, for men are surely destroying one another. You will

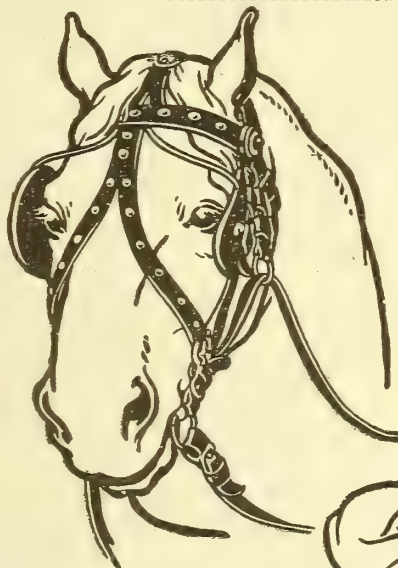
"But when men have killed their prey," said a young vulture, "why do they not eat it? When the wolf has killed a sheep he suffers not the vulture to touch it till he himself is satisfied. Is not man a kind of wolf?"



One of the many "Woods Open Air" houses used to house S. C. Buff Orpingtons at Sunset Poultry Yards, C. E. Siegel, Proprietor, 70 David Ave., Olneyville, R. I.

then find the ground smoking with blood and covered with carcasses, of which many are mangled, for the convenience of the vulture."

"Man," said the mother, "is the only animal who kills what he does not devour, and this quality makes him a benefactor to our species."



Good harness deserves good care; keep the trimmings clean and bright with

Old Dutch



Queen Incubators Built to Hatch Without Trouble

The Queen is built for results—under any and all conditions. We make the assertion that it will produce, year in and year out, better hatches of stronger chicks, with less attention, than any other machine on the market—at any price.

Most any machine will hatch under ideal conditions, but if you are in the poultry business, you can't always have ideal conditions, and you must be protected against the unexpected, such as a sudden drop in temperature. The Queen Regulator will take care of a sudden change of seventy degrees.

Richard Wayne, Gary, Ind., writes: "I have been in the poultry business and used both hot water and hot air machines. I have made a very thorough comparison of 12 different machines, and the Queen is the most thoroughly constructed of all."

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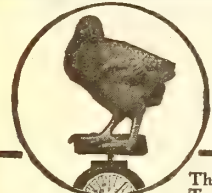
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Better Than Chickens
Young pigeons (squabs) bring 40 to 50c each when 3 to 4 weeks old. Big demand in city markets. Each pair of pigeons easily clear \$4 per year. Always penned up. Very little space and money needed to start. Free Book explains all. **MAJESTIC SQUAB CO., Dept. 56, ADLZ, IOWA.**



FREE
BOOK

"If men kill our prey and lay it in our way," said the young one, "what need shall we have of laboring for ourselves?"

"Because," replied the mother, "man will sometimes remain for a long time quiet in his den. The old vultures will tell you when you are to watch his motions. When you see men in great numbers moving close together like a flock of storks, you may conclude that they are hunting, and that you will soon revel in human blood."

"But still," said the young one, "I would gladly know the reason of this mutual slaughter. I would never kill what I could not eat."

"My child," said the mother, "this is a question which I cannot answer, tho I am reckoned the most subtle bird of the mountain. When I was young I used frequently to visit the eyrie of an old vulture who dwelt upon the Carpathian rocks. He had made many observations; he knew the places that afforded prey round his habitations, as far in every direction as the strongest wing can fly between the rising and the setting sun; and he had fed year after year on the flesh of men."

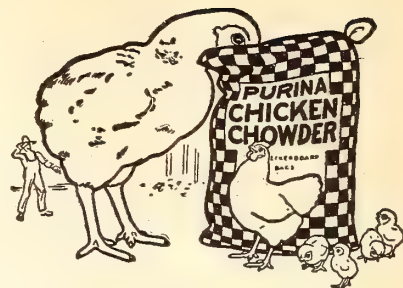
"His opinion was that men had only the appearance of animal life, being really vegetables with a power of motion; and that as the boughs of an oak are dashed together by the storm that swine may fatten on the fallen acorns, so men, by some unaccountable power, are driven one against another till they lose their motion, that vultures may be fed."

"Others think they have observed something of plan and policy among these caterers of ours; and those that hover more closely around them pretend that there is in every herd one that gives directions to the rest, and seems to be more eminently delighted with carnage. What it is that entitles him to such pre-eminence we know not. He is seldom the highest or the swiftest; but such are his eagerness and diligence in providing and preparing food for us that we think the leader of such human herds is entitled to our warmest gratitude, and should be styled the friend of the vultures."

There are a great many people in the world who believe that if they limited themselves to telling the truth, and nothing but the truth, they would stand no chance of being heard. Chiefly for this reason prevarication was invented. Another reason for its coming into common usage is the result of an effort to escape the execution of dire threatenings of unprincipled authorities.

Prevarication will almost without fail attract attention while mere truthful commonplace recitals call forth no applause. In order to get and keep an audience with parents many a child has found it quite necessary to tell a "whopper." The habit grows with time until many adults throught a lifetime are unable to break it.

Fear has been known to make even brave men lie. Why we should hope to inculcate the habit of telling the truth in our children by "scare" methods is difficult to determine. Yet in many families this method is in use today. If a child cannot be lead to tell the truth by other means than that of frightening him, better let him lie for awhile until he is able to see the futility of telling untruths. But in the meantime encourage him to tell the truth by showing an



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Something more than grain feed is necessary to properly mature a chick. Purina Chicken Chowder is a scientific combination of the necessary ingredients, such as linseed meal, granulated meat, alfalfa flour, bran, etc. Use with Purina Chick Feed for quick results. Chicks reach the laying period earlier, are stronger and less subject to disease.

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8	Only 1% of the eggs registering in this space can be hatched
9	Only 0.5% of the eggs registering in this space can be hatched
10	No use trying to hatch
11	any egg registering
12	in this space

Registers any egg in two seconds
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POULTRY CUTS

New designs. All varieties. 16 page catalogue free.

CHAS. L. STILES, Columbus, Ohio

interest in his truthful recitals of the most ordinary happenings.

It would seem that falsifying should not be necessary to attract the attention of a parent to his child's recital of that which, to the child at least is of absorbing interest—but such is frequently the case.

Not long ago we had occasion to witness the following happening:

On a very busy morning Auntie had her bright little six-year-old nephew in charge, and having given him various playthings, hoped to devote an hour undisturbed to straightening out some accounts. The first ten minutes passed without interruption, but at the end of that time a brilliant idea entered the head of the youthful charge relating to something which he had seen at the circus and which he desired above all things in the world to impart to his aunt.

"I cannot listen to you now, dear. You will have to wait awhile." Silence lasting seven minutes.

"Auntie, I only wanted to tell you about an elephant—"

"My dear, you must not tell Auntie about that now. I could not be interested in that as my mind is on this important work."

Silence lasting three minutes.

"Auntie, how long do you have to keep your mind on that?"

"I must keep at this until it is finished, unless something very important should come up to call me from it. Now do be a good boy."

Silence lasting full nine minutes.

"Auntie, you better listen to *this*, for I'm goin' a tell a lie."

"A what?"

"A lie! It's goin' a be a whopper too. You better listen to it."

And the outcome of the matter was that Auntie put up her accounts and prepared to listen and incidentally to discuss the ethics of telling lies.

"It's all right to tell a lie, Auntie, if you tell first that you're a goin' to tell one," stoutly affirmed the six-year-old. "But I know a boy, and a big boy too, who lives in our block, who told one once and never said it was a lie!"

Which fact Auntie did not attempt to dispute.

* * *

The following recipes were recommended by Mr. and Mrs. Thomas Rigg, Iowa Falls, Iowa, clipped from *Gleanings in Bee Culture*.

HONEY FRITTERS.

One cup sour milk with soda, or sweet milk and baking powder; 2 eggs, $\frac{1}{2}$ cup of honey, extracted; one scant tablespoonful of lard; one scant teaspoonful of salt; flour for stiff batter; fry in deep fat, dipping with teaspoon. Serve with extracted honey, slightly warm.

HONEY TARTS.

Make rich pie crust; cut out the center of two rounds; cut with biscuit cutter; place one, without cutting, on the bottom; bake light brown; fill with the following: One cup honey, extracted; $\frac{1}{2}$ cup of butter; one whole egg; extract of lemon, or juice of one. Fill just before using, and sprinkle with nuts or whipped cream. This is fine for lunch.

HONEY SHORTCAKE.

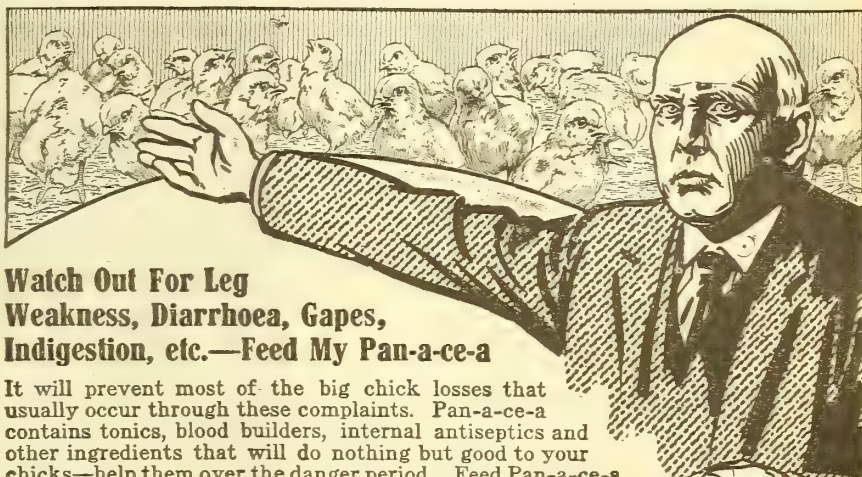
One quart flour; 2 teaspoonfuls baking powder; $\frac{1}{4}$ teaspoonful of soda; heap-

ing tablespoonful of lard; a little butter. Mix soft with sour milk. Bake in a square cake tin. Split and fill with the following: One pint of cream, whipped with a little powdered sugar; one cup honey; white of egg; add a little lemon juice; whip lightly and spread on the cake, spreading first the honey whip, then cream, heaping the cream on top; after first spreading the honey whip, nuts may also be used if liked, and you can omit the lemon, or use with fruit. Tart fruit is best.

FILLING FOR CAKE.

The following is good for cake filling, and makes nice sandwiches, or may be used as sauce for pudding. It is also fine by leaving out lemon and egg for hot cakes, waffles, or toast softened with little milk or cream.

One heaping tablespoonful of butter; one teaspoonful of lemon juice; white of one egg; one cup honey extracted. Beat the egg very light; add butter; add honey; beat again; then lemon last. Beat hard as you add each ingredient.



Watch Out For Leg Weakness, Diarrhoea, Gapes, Indigestion, etc.—Feed My Pan-a-ce-a

It will prevent most of the big chick losses that usually occur through these complaints. Pan-a-ce-a contains tonics, blood builders, internal antiseptics and other ingredients that will do nothing but good to your chicks—help them over the danger period. Feed Pan-a-ce-a now—read this guarantee: So sure am I that

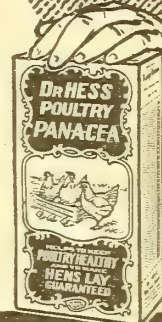
Dr. Hess Poultry Pan-a-ce-a

A Tonic—Not a Stimulant

will help your chicks grow—help them safely to maturity—help to make your poultry healthy and your hens lay—that I have told my dealer in your town to supply you with enough for your flock, and if it doesn't do as I claim, return the empty package and get your money back. Pan-a-ce-a costs 1c a day for 30 fowl. $1\frac{1}{2}$ lbs., 25c; 5 lbs., 60c; 12 lbs., \$1.25; 25-lb. pail, \$2.50 (except in Canada and the far West).

If not at your dealer's, write

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First New York Cockerel

(Madison Square Garden). 1st cock and 1st pen male, 1915; 1st cock, 1st cockerel, 1st pen male, Boston 1914; 1st and 2nd pen males and 2nd cock, Boston, 1915, will head some of our pens of

White Wyandottes

this season. Eggs from ten pens headed by Boston and New York Winners,

\$5.00 Per 15

At Detroit, 1916, we won 1st White Wyandotte cock, 1st hen, 1st cockerel, 1st pullet, 1st pen on five entries, and all open specials, including best cockerel in American classes, while on four entries our

Light Brahmas Won

1st cock, 1st hen, 1st cockerel, 1st pullet and all specials. EGGS, \$5 PER 15.

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Won at the Great National White Wyandotte Club Meet at Buffalo best display by more than double the points scored by our nearest competitor. Winners at Boston, 1915 and 1916. Also winners of all blue ribbons at six other large shows in the last two seasons. A few choice breeders in cocks, hens, cockerels and pullets left for sale. Eggs from the ten finest exhibition matings we ever put together, \$5.00 per 15; \$9.00 per 30; \$13.00 per 45; \$25.00 per 100. Utility eggs, \$8.00 per 100. It will pay you to send for our 16-page mating list for 1916, giving description of our superb matings, winnings, illustrations, etc.

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The strain that has bred and shown more winners at Chicago than any two competitors combined. Write today for our illustrated free catalog and mating list on eggs and our proof to the claim of the best Barred Rocks in the West. A few good breeders left for sale. Satisfaction guaranteed on both stock and eggs. Write today and get in line to raise that next year's winner from our eggs. D. F. PALMER & SON, Box 35, YORKVILLE, ILL.

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Eggs for hatching. Pens contain Madison Square Garden, Springfield and Holyoke winners, that simply team with quality. \$3.00 to \$10.00 per 15. Breeding stock for sale at reasonable prices. Mating list free. Write your wants. HENRIETTA E. HOOKER, South Hadley, Mass.

BIRDS — Barred Plymouth Rocks — EGGS

Indianapolis, 1914 and 1915 State Champion Cockerel; 1st pen; 2d pen; 1st cockerel; 1st pullet; 2d and 3d hen. A limited number of birds for sale. Mating lists on application. W. H. GODDARD & SONS Orchard Place RIVERSIDE, MUNCIE, IND.

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TELL THE AGE OF POULTRY

Identify birds as far as you can distinguish colors. Made in Red, White, Blue, Amber, Green, Black, Pink and Ruby. Mention variety when ordering.



ECONOMY BRAND—Single coil for adult fowls. 12 for 15c; 25-30c; 50-50c; 100-75c; 250 \$1.80; 500-\$3.50, postpaid.



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Large printed numbers, bright and clear colors—Red, White, Blue, Green and Yellow. 12 for 35c; 25-60c; 50-\$1.10; 100 \$2.00; 200-\$3.75, postpaid.



Poultry Punch. Price, 25 cents.

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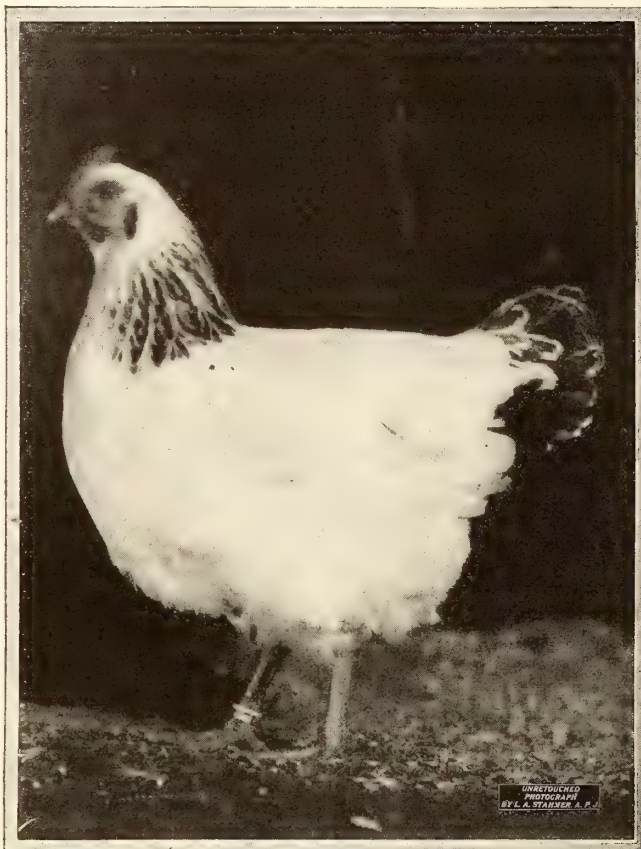
COLUMBIAN PLYMOUTH ROCKS.

A Few Facts from First Hand Information.

By LOUIS PAUL GRAHAM.

WITHIN the last few years, this variety, which at best is a new one, being only a trifle over 10 years old, has rapidly forged to the front among the American breeds, both in egg production, early maturity and ex-

laying maturity. Some as early as five months and a few days old, and it is noteworthy that these pullets attained full size. In most breeds, not excepting the Leghorns, it is generally understood that a precocious early laying pullet is usually deficient in size and stamina and the personal experiences of the writer with several breeds bears this out, excepting in the instance of the Columbian Plymouth Rocks. As a case in point: A pullet hatched on August 10th laid her first



COLUMBIA QUEEN.

A Columbian Rock hen with a trap-nested record of 286 eggs in one year.

cellent table qualities at all ages.

The consensus of opinion seems to be that this variety has proven to possess more good qualities than any of its other Plymouth Rock cousins, and as a profitable and handsome utility fowl is running very close to the famous White Wyandottes.

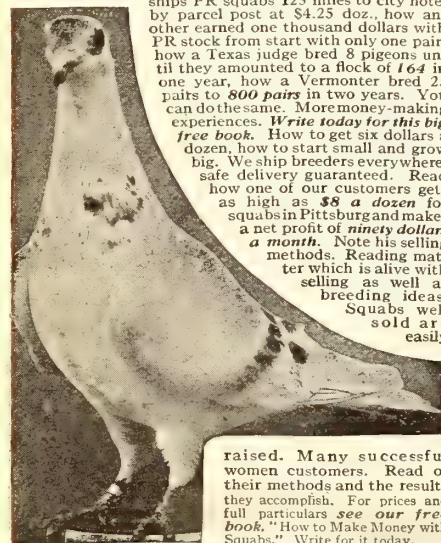
Many instances are noted of early

egg the following January 15th and this pullet maintained a high average egg production for the year following; she also attained full size, weighing 8½ pounds the following fall. Her average fertility for that first season was 87%, and what is best, the fertile eggs hatched.

Columbian Plymouth Rock chicks

SQUAB BOOK FREE

for 1916, telling how a Mich. hired man now works for himself breeding PR squabs and selling for \$5 doz., how an Ind. man sold 4652 PR squabs for \$1265 in 1915 and cured himself of desire to leave the farm, how a S. C. man ships PR squabs 125 miles to city hotel by parcel post at \$4.25 doz., how another earned one thousand dollars with PR stock from start with only one pair, how a Texas judge bred 8 pigeons until they amounted to a flock of 164 in one year, how a Vermont breeder bred 25 pairs to 800 pairs in two years. You can do the same. More money-making experiences. **Write today for this big free book.** How to get six dollars a dozen, how to start small and grow big. We ship breeders everywhere, safe delivery guaranteed. Read how one of our customers gets as high as \$8 a dozen for squabs in Pittsburg and makes a net profit of ninety dollars a month. Note his selling methods. Reading matter which is alive with selling as well as breeding ideas. Squabs well sold are easily



raised. Many successful women customers. Read of their methods and the results they accomplish. For prices and full particulars see our free book, "How to Make Money with Squabs." Write for it today.

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BLACK LEGHORNS

From PRIZE WINNERS at the Leading Shows—Heavy WINTER EGG LAYERS—the Green Sheen Kind with REALLY YELLOW LEGS—

Also SILVER LEGHORNS

In Type and Color BEAUTIFUL and RARE—Prolific Producers of EGGS ALL THE TIME—From PRIZE WINNERS Too—For MATING LIST Address

J. C. HILES, 18210 CORNWALL RD., CLEVELAND, O.



Foxhurst Champion BLACK ORPINGTONS Again Sweep to Victory

At America's Greatest Show, Madison Square Garden, New York December 31, 1915 to January 5, 1916; winning

Cock	Hen	Cockerel	Pullet	Pen
1	1	1	1	1
2	2	2	2	
3	3	3	3	All Gold and Silver
4	4	4	4	Specials
		5	5	

Repeating our equally marvelous wins of the past 8 years. At Pittsburgh, Pa. January 22d, 1916, we won, Cocks, 1, 2, 3; Hens, 1, 2, 4; Cockerels, 1, 2, 3, 4; Pullets, 1, 2, 3, 4; First Old Pen, First Young Pen. Our customers are sweeping all shows, large and small, from coast to coast, as hundreds of testimonials prove. Exhibition and Breeding Birds for sale at prices within the reach of all. Stock shipped on a money-back guarantee. Eggs in season. Send for Mating List.

FOXHURST FARM, Lime Rock, Conn.

Convincingly Good



An unretouched photo of fourth Hen, Single Comb White Leghorns, Boston, 1916.

PEOPLE WITH EYES will always pay admiration to beauty. There is never a time that BEAUTY requires apologies or explanations. It is accepted everywhere at its face value, as PROOF of QUALITY. We want you to note the beauty lines that our birds possess and call your attention to the unretouched photograph of one of our winning cock birds as shown on page 322 of February issue of this journal.

Proof of Quality

of our birds is their consistent winning at Boston and other large New England shows. Bear in mind that we are in the section of the country that is the "home of the fancier," where a win means that your bird is as perfect as it is possible to breed them. Our farm consists of 37 acres and our time is devoted exclusively to breeding good birds.

S. C. W. Leghorns

Exhibited at Boston, 1916, winning 2nd pen, 4th cock, 3rd and 4th hen. Other show winnings shown in mating list.

White Wyandottes

At Massachusetts State Meet, 3rd cock in one of best classes ever shown. Other winnings in mating list.

Profit

S. C. R. I. Reds

No show birds, just egg machines. At Essex Co. Egg Contest, now on, they hold 2d place with big margin.

YOUR WANTS in STOCK, EGGS or CHICKS will receive our prompt attention. Write for mating list, for our low prices will gratify you.

Satisfaction or Money Back

WILLOW
TREE POULTRY FARM
Beverly Farms
Mass.

H. P.
McKean, Jr.

O. A.
Shaw McKean

are hardy and prove to be vigorous and rapid growers, a fact pleasant alike to fanciers and to market poultrymen. They make quick developing excellent broilers and are finding great favor for use as Capons. The cockerels make splendid roasting chickens at all ages, and in an experiment conducted this year made more and quicker development in 5½ months than did the Barred Rocks and White Wyandottes in the same flock. This is quite a feature of the breed and one worthy of consideration, especially to the market poultryman, with whom a few days or weeks earlier development means in many cases higher prices and in all cases less cost of production—profitable either way.

The Standard weights set for this variety are from 5½ to 7½ pounds for females, 6 to 8½ pounds for males, and that they easily and often exceed these weights without special feeding is not an exaggeration. The pullets lay early and produce a large number of rich brown eggs, the kind most esteemed by housewives and good cooks.

It is hardly necessary to describe the beautiful Brahma markings of this variety. Everyone is familiar with silvery hackles striped with glossy greenish black. The black tails, finely edged black coverts in both sexes, black flights and slight black striping in the saddles of the males. Balance of plumage: breast, fluff; back and surface of wings, silvery white, which, combined with their bright red single combs, wattles, lobes and faces and rich yellow legs, makes them attractive to fanciers or laymen, either singly or in flocks.

The recent establishment of a world's record by "Columbia Queen," a hen of this variety, which produced under a certified trapnest record 286 eggs in one year, has created a great demand for fowls of this variety by those who are seeking a beautiful as well as a useful and profitable fowl.

The recent establishment of a new world's egg record by the White Leghorn hen "Lady Eglantine" appears for a moment to dwarf the performance of "Columbia Queen". But a second thought and calculation of the eggs laid by each in the course of a year sold at the average price of 30c per dozen (which is high estimate) shows Lady Eglantine's 314 eggs worth \$7.85, while Columbia Queen's product, 286 eggs, are worth \$7.15, a difference of 70c in favor of the Leghorn, but—and consider this well—Lady Eglantine's carcass, weighing 2¾ pounds, is worth just 68c dressed, while Columbia Queen's 7½ pounds will bring \$1.87½, a difference of about \$1.20 in favor of Columbia Queen, and by subtracting the 70c edge on eggs possessed by the Leg-



SPIRALETS COLORED LEG BANDS

10 Colors. Strongest and best. Adult sizes—12-15c, 25-25c, 50-45c, 100-65c, 250-\$1.55, 500-\$3.00, postpaid. Trade supplied.

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With Pedigree Number Buttons. White, Blue, Red, Yellow, Green. Sure lock. The best band for trap-nest and pedigree work. 12-35c, 25-65c, 50, \$1, 100, \$2.15.

M. BAYERDORFFER, Mfr.
Huguenot Park, New York



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today with

**RAWNSLEY-
SHIELDS
Poultry Farm**

FOR

**Buff
Orpington**
AND

**Speckled
Sussex
EGGS
Speckled Sussex**

settings from

Madison Square Garden, 1916,
Winners

1st Display; 1st Cock; 1-2 Hens;
1-3 Cockerels; 2-3 Pullets; 1-2
Pens; and

Sussex Club Show, Chicago
Coliseum, December, 1915,
Winners

1st Display; 1-2 Cockerels;
Champion Male; 1-2 Pullets;
Champion Female; 1st Old Pen;
2-4 Young Pens; 2-4 Cock; 2-5
Hens.

Buff Orpington

settings from

National Club Show, Chicago
Coliseum, December, 1915,
Winners

1st Cockerel; 1st, 2nd Young
Pens; 1st Pullet; 1st, 3rd, 5th
Old Pens; 1st Hen; 1st Display.

Birds of our strain won at
World's Fair, San Francisco,
Madison Square Garden, Phila-
delphia, Boston, St. Louis, Quincy,
Ill., Palace Show, N. Y., Mil-
waukee, and several others the
past season.

Stock for sale at all times.
Free mating list on request.

**RAWNSLEY-SHIELDS
POULTRY FARM**

5173 N. High St. Columbus, O.

Single Comb White Leghorns

TRAP-NESTED

"Satisfaction Always"

RANGE RAISED

Memphis Tri-State Show, 1914-356 in class, won 2, 3 Cock; 1, 2 Hen; 4 Cockerel; 1, 2, 3 Pullet; 3, 5 Pen; Best Display. Again in 1915, 215 in class, won more prizes than any other breeder in class, and Best Display.

A little BABY CHICK history: One customer got 600 Chicks April 10, 1915. Raised 225 pullets. Weight at 5 mos. 10 days, 3 lbs. to 3½ lbs. Egg-yield in October, 30%; in November more than 40%. Repeat order for 700 chicks to be shipped April 1, 1916. Another customer got 75 chicks. Raised 41 pullets. "They beat anything laying I ever saw. Frequently this winter got 36 eggs a day, several times 38, and even 40. Bought some higher priced stock elsewhere, but did not have near the success I got from yours." Other similar reports in free Catalog and Mating List.

Sixth Year. Largest Farm in State. Completely Equipped.

Fourche Mountain Poultry Farm

CUMMINS RATCLIFFE, Owner
City Office, 719 Southern Trust Bldg.

Little Rock, Ark.

BREEDERS White Leghorns BREEDERS

WE ARE IN EVERY SENSE BREEDERS.

WE ARE NOT A HATCHERY.

After years of careful study to perfect our stock we have accomplished our aim and today our birds are excelled by none for vigor and productiveness. Our own breeders possess the qualities to produce livable chicks and unsurpassed layers.

DAY-OLD CHICKS

EGGS FOR HATCHING

Write us and we will astonish you with the prices we quote considering the quality we offer. We guarantee the safe delivery of chicks, the fertility of our eggs and that both will be the product of our own breeders; and, furthermore, that all customers must be satisfied when dealing with us. Remember, if you order from us you receive the benefit of years of care and study given to perfect our stock. You will not receive hatchery stock. Send us your order early to insure delivery date. We guarantee to fill orders when wanted or to promptly return your money. Write for free booklet, describing our methods and stock.

SPRING WATER POULTRY FARM

R. F. D. No. 1

STOCKTON, NEW JERSEY

Eggs for Hatching and Day-Old Chicks

The Kind that Hatch, Live, Grow and Lay

EGGS FOR HATCHING—We are now booking orders for hatching eggs from fully matured carefully mated, farm raised birds, selected for their prolific laying qualities, vigor and standard requirements. They are the pick of a flock of many thousand birds. We can supply eggs in any quantity from our matings of

SINGLE COMB WHITE LEGHORNS, WHITE PLYMOUTH ROCKS

MAMMOTH PEKIN DUCKS

:: ::

EMBDEN GESE

DAY-OLD CHICKS—We can supply in any quantity from our White Plymouth Rocks and Single Comb White Leghorns. Day-old Ducklings, we can supply in limited quantities.

Write for Circular with Prices.

Send for Our Records in the Connecticut International Egg-Laying Contests.

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McClave's Prize Winning—

L. Brahmas, Barred Rocks, Wyandottes, Toulouse and Chinese Geese, Muscovy and Indian Runner Ducks

Three hundred selected birds for sale at reasonable prices. Big winners at the late Panama-Pacific, Chicago, Cleveland and other large shows. Sales Bulletin No. 60 free on application. Farm-grown, prize-quality. Prompt shipment. Satisfaction.

CHAS. MCCLAVE, Box 24, New London, Ohio.

BABY CHICKS OF QUALITY

Eleven Varieties—Kinkers Strain Barred Rocks, White Rocks, White and Brown Leghorns, White Wyandottes, R. I. Reds, White and Buff Orpingtons, Anconas, Silver Campines and Blue Andalusians. 8 Cents each and up.

From best laying strains of pure blooded stock on free range; 12,000 per week. Safe arrival and satisfaction guaranteed. Write for catalog. It's free. We want your orders. Best Colony Brooder Stove made, \$15.00. Order early.

WOLF-HUBER HATCHERY CO.,

Dept. B

Gibsonburg, Ohio



CHESTNUT TERRACE BUTTERCUPS

Winners of the blue at The Palace, Buffalo, Syracuse, Auburn.

A few Cockerels for sale. Orders booked for Eggs for hatching.

Send name for Mating List.

Mrs. Hattie D. Reed

Marcellus, New York

LANGE'S BUFF WYANDOTTES

The kind that Win, Lay and Pay. Out of 30 entries, at Michigan State Fair, Lansing and Detroit, Mich., they won 10 firsts, 6 seconds, 7 thirds, 2 fourths, 2 fifths, 4 specials and 2 silver cups. Cocks, Cockerels, Hens and Pullets for sale at low prices. Eggs, \$2.00 for 15, and \$5.00 for 45. Satisfaction guaranteed. J. G. Lange, 1187 Cotton Ave., Detroit, Mich.

horn you still have a total 50c profit in favor of the Columbian Rock.

Their fine laying, vigor, rapid growth and early maturity makes the Columbian Rocks the leading candidate for popular favor with those desiring beauty and utility combined, while market men are bound to consider the fine flesh and appearance of this breed as a table fowl.

Columbian Rocks have given excellent results, both in large free range flocks, where they prove to be good foragers, and on the other hand have done equally as well in limited quarters. They are interesting to breed for Standard markings and appear to fit into any poultry scheme, whether for fancy, market or for eggs.

COLUMBIAN PLYMOUTH ROCKS.

Setting Forth Their Unusual Utility Value and Their Undisputed Attractive Appearance.

By T. J. ENSLIN, Hackettstown, N. J.

MANY poultrymen realize what has taken place in the poultry world in recent years but very few people who keep poultry solely for home consumption have any idea as to the progress made in putting the thorobred fowl where it is today.

It is not my purpose to go into detail as to the many changes made in the Standard of Perfection, the market requisites as to eggs, broilers, roasters, etc., but I do wish to call the readers' attention to the fact that the value of the general purpose fowl of today is enhanced to the extent of its qualifications when judged according to the Standard requirements, just as a show bird's value is enhanced to the extent of its usefulness as a meat or egg producer.

The vast majority of farmers in particular are ignorant of what is going on and do not realize the possibilities in this connection—while many poultrymen lay very little stress on the combination of the two forms of valuation. Personally, I am firmly of the opinion that the day has passed when any breed can hold and continue to maintain a popularity on fancy feathers alone as its chief attribute.

The merits of a breed can be determined in several ways. One is to watch closely the success of poultrymen breeding them, and another way is to try them out yourself. The breed to be taken up by a beginner, or the one to be substituted for a breed not answering requirements, are perplexing questions. The beginner invariably feels that he is up against a very hard proposition, while the experienced poultryman often finds it difficult to change from one breed to another, fearing he may make a mistake. One may attend all the large poultry shows year after year in an effort to satisfy himself as to the particular type and color which must appear in his newly constructed poultry



PRICES SMASHED

Write for the Greatest Incubator Bargain ever offered, on the most successful incubator ever built.

Old Reliable Incubator

Used at many Government Fairs. 34 years the standard—holds over 1200 First Premiums, awarded on superior merit.

Guaranteed successful in your hands or your money back.

Get Free Poultry Book and my low price before you buy.

Reliable Incubator & Brooder Co., Quincy, Illinois

J.W. Myers, Pres. Box A-1

TO THE VICTOR BELONGS THE SPOILS

You are herewith introduced to

Champion Gladstone



Winner of 1st Cock

SINGLE COMB RHODE ISLAND REDS
Madison Square Garden
1916

Also Boston, 1916

Also winners of champion challenge cup at Boston. Some win, you will say, but consider this was the only bird we entered at the "Garden" and the competition was the keenest it has been in years. The same is true of Boston. He is the only cock bird we entered and with 23 entries, he captured 1st.

If you write promptly, we can supply you with a limited number of his progeny for immediate delivery. Now booking egg orders. Satisfaction or money back is the way we do business.

ROCK LEDGE FARM
SOUTHBOROUGH - MASS.

When Better Birds Are Bred - We Will Breed Them

houses and yards, or he may look over the various egg-laying contest figures with a view to selecting the best egg-producing variety, and in the end may be as much in doubt as when he first gave it a thought. I am firmly of the belief that the selection of a breed of chickens should be treated in the same manner as selecting any article for business purposes and in so doing we must place every confidence and reliance in some responsible poultryman.

My experience with Columbian Rocks dates back many years. Like others I tried out several breeds before becoming convinced that Columbian Rocks possess every element conducive to high egg production and table fowl qualifications. It is a simple matter to obtain one or the other qualification, as many breeds possess them, but quite different to secure maximum results in both. There is an abundance of evidence to corroborate my statement, viz: that Columbian Rocks cannot be excelled as egg producers and as table fowl.

Originating as they do from a White Plymouth Rock-Light Brahma cross, they possess an abundance of vigor and vitality. Good layers and healthy birds cannot emanate from birds deficient in vigor and vitality. They are a big bodied, yellow skinned fowl and lay a large light brown egg. No fowl takes on flesh more quickly. It is a common occurrence to have cockerels weigh five pounds at five months of age and eight to nine pounds at seven months of age, and when caponized will weigh considerably more. Pullets, like cockerels, mature quickly and very often begin laying at five and one-half months. Their strongest point is Winter eggs. They are not large eaters, and on account of their strong constitution require no special housing during Winter months as do many other breeds; and finally they make excellent mothers.

Nothing gives me more pleasure than to say there never has been a "Boom" on, so to speak, with Columbian Rocks to make them undeservedly popular. Many new breeds not having the proper kind of stuff back of them have been forced upon the public by certain wealthy enthusiasts, and after a period of actual tests, a reaction would take place with result that they would cease to be in favor with those who look for profitable results. Not so with Columbian Rocks. Their wonderful growth in popularity, now manifested in almost all sections of the country, has been natural, steady and consistent. Evidence of their qualities is sustained by the fact that once they enter the yards of a poultryman—they generally stick.

As an example of a combination egg-producing and exhibition specimen I call your attention to the North American Egg Laying Contest ending November 1st, 1914, where the wonderful hen, "Columbian Queen," a thorobred Columbian Plymouth Rock, broke the world's record, formerly held by a Leghorn, by laying 286 eggs in one year, which record has never been equaled by any heavy laying breed fowl at any of the authenticated egg laying contests. The hen referred to was on exhibition at Madison Square Garden this year. She has excellent Rock type and for a hen of her age has fine color markings. In her pullet year she undoubtedly would have been qualified and competent to win at almost any of the large shows. Results were accomplished notwithstanding the fact that many poultrymen, breeding for

SUCCESSFUL EGG FARMING

200 Eggs A Year Per Hen



How to Get Them

The eighth edition of the book "200 Eggs a Year Per Hen," is now ready. Revised, enlarged, and in part re-written; 96 pages. Containing among other things the method of feeding by which Mr. S. D. Fox of Wolfboro, N. H., won the prize of \$100 in gold offered by the manufacturers of a well-known condition powder for best egg record during the winter months. Simple as a, b, c, —and yet we guarantee it to start hens to laying earlier and to induce them to lay more eggs than any other method under the sun. The book also contains a recipe for egg food and tonic used by Mr. Fox, which brought him in one winter day 68 eggs from 72 hens; and for five days in succession from the same flock 64 eggs a day. Mr. E. F. Chamberlain, of Wolfboro, N. H., says: "By following the methods outlined in your book I obtained 1,496 eggs from 91 R. I. Reds in the month of January." From 14 pullets picked at random out of a farmer's flock the author got 2,999 eggs in one year—an average of over 214 eggs apiece. It has been my ambition in writing "200 Eggs a Year Per Hen" to make it the standard book on egg production and profits in poultry. Tells all there is to know, and tells it in a plain, common-sense way.

Price 50 cents; or with a year's subscription to **AMERICAN POULTRY ADVOCATE**, both for 75 cents; two-year's subscription and book for \$1.00, or given free as a premium for two yearly subscriptions at 50 cents each.

Our paper is handsomely illustrated, practical, progressive and up-to-date on poultry matters. Established 1892. 44 to 132 pages monthly. 50 cents a year. 3 months' trial 10 cents. Sample copy free. Catalog of poultry literature free. Address

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Pekin Ducks

We have a splendid lot of very high class, **GREAT BIG Pekin Ducks**. \$3.00 each, males or females, or \$5.00 a pair.

Satisfaction Guaranteed.

BELLA VISTA FARM KIMMSWICK, MISSOURI



45 Varieties Land and Water Fowls

Send for free illustrated catalogue, which tells you much you should know. Stock and eggs at all times. Mention A. P. J.

S. A. HUMMEL Box 52, Freeport, Ill.

Bawden's Buff Plymouth Rocks

Sunlight Strain

The blood of this strain is used in nearly all the best prize winning flocks in Canada and the United States. Send \$5.00, \$10.00, \$15.00, for Cockerel on approval.

1916 Mating List Free.

J. BAWDEN, Box 20, Ridgetown, Ont., Can.

CHAMPION

Rhode Island Reds

Win 1st hen and 4th cockerel at Greater Chicago Show, January, 1916, only three birds entered. Stock and eggs for sale. Eggs from 1st pen, \$5.00 per setting. This pen includes 1st hen at Chicago.

FRANK JOHNSON, 220 W. 110th St., Chicago

Swift's Meat Scraps
Manufactured by Swift & Company, U.S.A.
Guaranteed Analytical
Protein.....50%
Fat.....15%
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Eggs in Winter
Are the Biggest Money-Makers in well-run Poultry Yards and on the Average Farm.

Swift's Meat Scraps
are absolutely necessary for heavy egg-production and Big Profits. These Scraps are made from Fresh Meat Residues dried and ground to just the right size for feeding. They make hens lay.

For Free Samples and Prices, Address
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World's Fair and Club Show
CHAMPIONS

Hatching Eggs from the best of the breed.
Mating List Free. **Elton C. Mahon**
BUCKEYE SPECIALIST NORWOOD, TENN., U. S. A.

BUFF and WHITE ORPINGTONS
Winners of the highest honors at Detroit and Grand Rapids.
EGGS for HATCHING
From massive, blocky birds—quality and utility combined. Mating and price list free. Write **C. A. Keefer, A.R. 7, Muskegon, Mich.**

White Wyandottes

Eggs from high class matings that will produce winners, \$2.00 per 15. Satisfaction guaranteed.
FRED A. RUF Crown Point, Ind.

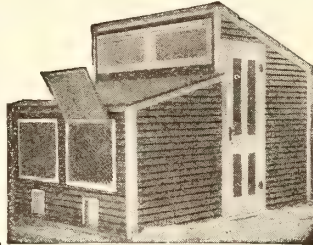
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Our poultry houses are built—not machine made, that fall apart after a year's use. We use the best lumber obtainable, buy in car load lots, and for that reason we can sell you a house already built, considerably cheaper than you can make one.

FOWLS are LIKE HUMANS

If you spend the night in a poor bed you can't do as good work next day. If you have your fowls in a make-shift house, they cannot keep in condition for either laying or showing. House your birds properly and you will find the egg yield increasing and your birds looking much better. Proper housing means the "Perfection Way." Write for our catalog, it is free.

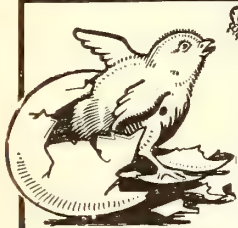
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S. C. White Leghorns Exclusively D. W. Young's Strain

3,000 breeders on free farm range; milk fed. Specially bred for winter eggs. Eggs for hatching now ready in any quantity at \$6.00 per 100; 80% fertility guaranteed. Now booking orders for baby chicks, March and April delivery, at \$12.00 per 100. Capacity 12,000 weekly—no order too large. The kind that live if given half a chance. My book, "Profits in Poultry Keeping Solved," shows where the money is, free with all \$10.00 orders. Circular free.

Edgar Briggs, Box 144, Pleasant Valley, N. Y.



Strong, Healthy Baby Chicks, or Eggs For Hatching — White Wyandottes

Our White Wyandottes are utility birds and are not like some so-called utility stock that consists of birds culled from flocks raised for exhibition purposes only. If you want stock that will lay well you must breed them for that purpose.

Come and see these birds or write for catalog giving list of matings, records and prices.

Pine Lake Poultry Farm, Hartland, Wis. DEPARTMENT 6
Chas. H. Benjamin, Mgr.

INSTANTANEOUS—AUTOMATIC—ELECTRIC

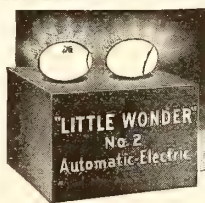
(Patent Pending) THE MOST POWERFUL EGG TESTER on THE MARKET

All other testers are "tallow dips" in comparison! No other tester even approaches it in power, speed, safety and convenience. The very instant an egg is placed, the powerful Mazda-Tungsten lamp shoots ALL its light into and through it; not a ray of light is wasted; the egg gets it ALL. Equipped with dry batteries; no other current used. WIDE OPEN "MONEY-BACK" GUARANTEE.

"LITTLE WONDER" No. 2—2 lights (like cut) \$3.00 each, prepaid
"LITTLE WONDER" No. 1—1 light - - \$2.00 each, prepaid

Send for descriptive circulars and testimonials; they will convince you! Here's just one; from the great Andoua breeder: — "It is just what I have been looking for; would not take ten times the price of it, if I could not get another." H. Cecil Sheppard, Berea, Ohio, June 17, 1915.

Manufactured by J. B. TIMBERLAKE & SONS, STATION "A" JACKSON, MICHIGAN.



REGAL REDS BEST SINGLE COMBS EXCLUSIVELY

They again proved their quality at the big State Show, De Kalb, 1916; won 2nd and 4th young pen, 2nd hen, 5th pullet. Also winners at Freeport, Rockford, Quincy and Galena. Have won at the later shows 9 firsts, 4 shape and color specials and silver cup and numerous seconds, thirds, fourths and fifths. Some choice breeding cockerels for sale at half price. Write for particulars. Fine illustrated egg circular sent on request. Satisfaction guaranteed.

GEO. H. SHOENHARD : Box 17 : Freeport, Illinois

Champion BARRED Rocks

After my sweeping victories at Allentown, Hagerstown, Augusta, Ga., and Hanover, my birds made the following wins, Gettysburg, Pa., in a hot class: 1-2-4 Cock, 1-2-3-4 Hen, 1-2-3 Cockerel, 1-2-3 Pullet, 1-2 Pen, all specials and best bird in American class. At Philadelphia, Pa., the most coveted prize in the class, 1st Cockerel; also 2d Cock and 2d Pen. Book your egg orders now. A small lot of stock yet.

C. GUY MYERS

SIDDONSBURG, PA.



CAMPINES—Blue-Orp's—SUSSEX

Winners at Hagerstown, Frederick, Norfolk, Washington, Chicago and Madison Sq. Garden. If interested, please write me your wants, mentioning breed. Eggs very reasonable.

Dr. J. H. Prudhomme, Desk A, Thurmont, Md.

GOLDEN PENCILED HAMBURG

The Fancier's Fowl. Won the Principal, Regular and Special Prizes at Madison Square, Boston, Palace. A few birds for sale. No eggs.

JOHN A. GAMEWELL

::

Box 2

::

LITTLE SILVER, N. J.

fancy feathers alone, reluctantly give a thoroughbred fowl credit for having made an extraordinary egg record.

In breeding Columbian Rocks, double mating is not necessary, as is the case with a number of other breeds. In mating up, the same principles apply as to Light Brahmas and Columbian Wyandottes, as color markings are the same. In color points, discrimination should be used and surface color favored over under-color and hidden parts. Too much attention cannot be paid to hackle feathers. The web, or edge of feather should be a distinct white, with solid black stripe extending from fluff down middle of feather. It is much better to have base of hackle feather (near skin) a bluish slate for about one-third the length of feather, rather than black. Black in this section of feather almost always carries with it a smutty colored bird. Hackle should be full and meet in front. The white edging on tail coverts should be narrow and distinct. Both hackle and tail feathers should always be given preference over primaries and secondaries. My experience has been that good hackle and tail feathers will produce in offspring more good winged birds than can be produced by individuals having strong wing and only fairly good hackle and tail. Striping in saddle feathers of male is very essential, altho I am inclined to think that some breeders are laying too much stress on heavy striping. Also carrying the striping too great a distance from tail proper. It is a well-known fact that when all the saddle feathers are striped, a perfectly natural condition exists in other parts of the specimen, viz: dark surface color in fluff and black feathers in breast just below and between front of hackle. This condition affects seriously the beauty of the bird, and if overdone will tend to make Columbian Rocks lose their popularity.

Furthermore the Standard calls for white surface color in fluff and breast. A certain amount of well defined saddle striping, say one-half or two-thirds of saddle is sufficient and adds to the bird's appearance.

A very important factor in breeding is under color, viz: "Bluish Slate" for all parts of body except breast where under color should be "Bluish White." Strong under color invariably signifies strong surface color. The male bird should always have well defined color markings as his color is the preponderating influence on color of offspring, just as the female influences the type of offspring. I wish to emphasize, however, that it is a serious mistake to mate up a male bird (especially cock bird) having very dark surface color in fluff. The result will invariably be dark smutty colored offspring. My best results have been with birds having good under color yet white surface color in fluff. Birds with white under color invariably breed too light in hackle and tail.

In concluding I wish to say that I cannot conceive of anything more beautiful than the Columbian color markings which, to my idea, shows up to the best advantage in the Rock type.

With the egg producing and table fowl qualifications which Columbian Rocks possess, combined with beautiful markings, I see no reason why they should not in very near future become the most popular of all breeds.

A pound of crushed oyster shells is said to contain sufficient lime for the shells of seven dozen eggs.

Trap-Nested Reds

R. & S. C.—Come here if you want birds that are BRED for EGG PRODUCTION



Record 223 Eggs

Eggs from trapnested, heavy laying stock, mated to choice pedigreed cockerels at \$2.50 per setting. From those with trap-nest records of better than 200, \$4 to \$5, according to color. Strongly fertile eggs. Square, decent treatment that has satisfied our many customers. Send for Mating List at once.

MUSKWADOSA STOCK FARM
Box 132 - - PEMBINE, WISCONSIN

Band Your Chix

With the Stevens Baby Chick Bands. Made in eleven colors. In lots of 25 or more 1 cent each. No need to punch holes, you can see the band without handling the chick.



Poultry Bands, both single and double numbers; 3 cents each, \$2.00 per hundred. Also pigeon bands. Send for free catalog and sample. Extra size for turkeys, geese and Lt. Brahmas.

M. M. BRURTON

(Successor to F. A. Marshall)

231 Salem Street - - WAKEFIELD, MASS.

Carter's Barred Plymouth Rocks

We have a grand lot of Barred Plymouth Rock Cockerels and Pullets of both matings. We can supply you with show birds or breeders. Write for prices on stock—state just what you want and we will quote you prices. Eggs from either of our best mating, \$5.00 per fifteen.

Carter's Poultry Farm - Jonesdale, Wis.

IF

YOU want to stop extremes in your incubator, clamp to it a **Universal Heat-Check** and your eggs are absolutely safe from too high heat. No more care or worry. Fits hot water or hot air incubators without a mar. \$1.00 each and guaranteed. Write for circular now, or send in your order at once to

Universal Heat-Check, Desk 65, Buffalo, N. Y.

TEN LIVE CHIX GUARANTEED

To every 15 eggs or order replaced free—from the Middlemarch Champion Strain of Buff and Black Orpingtons, winners at Chicago Coliseum; Fargo, N. D.; Birmingham; La Crosse; Great Minnesota State Fair, and Minneapolis. \$10, \$5, \$2.50 for 15 Eggs.

JESSIE F. GORDON Box 535 SPRING VALLEY, MINN.

Sec'y-Treas. Minn. Branch of A. P. A.

S. C. ANCONAS

Sure-Win Strain. Twelve Blue Ribbons at Coliseum Show, Chicago, in last three seasons. Grand winning at Wisconsin State Fair, Milwaukee. A few good cockerels left. Eggs from four choice matings. Mating List Free.

CORA B. GARBUTT - Box 146 - DARIEN, WIS.

DAY-OLD CHICKS

With Stamp of Quality insuring Vigor and Livability. Shipments Guaranteed up to 1,500 miles. White Wyandottes, Barred Rocks, White Leghorns, Buff and White Orpingtons, S. C. and R. C. Reds.

EGGS FOR HATCHING

at low prepaid prices. A Post Card will bring you our 1916 Catalogue.

GOSHEN POULTRY FARMS
Route 12 Goshen, Indiana



TWENTY LESSONS ON POULTRY.

TIMES and conditions are rapidly changing. This well applies to almost anything one might suggest. Years ago, the principal subjects taught in our public schools were reading, spelling, writing, arithmetic and the history of the United States.

A popular demand along various lines has brought about many changes that have received favorable comment and are now considered a real part of school study. It is within a comparatively short length of time that the kindergarten, manual training, domestic science and the study of agriculture in its broadest sense have been recognized in this manner. It goes without saying that all fair minded people will agree that these new studies brought forth in our public schools have been, and are, a great success from every standpoint.

It is earnestly desired by the American Poultry Association and all others interested in the best in standard bred poultry, to have it heralded far and wide that the new text-book "Twenty Lessons on Poultry" is now ready for distribution. It is very complete in every detail and compiled in a manner to prove most instructive and easily understood. It has been written and edited by men especially capable and well versed along the line of poultry culture. It contains 92 pages, with 55 illustrations in the text; published by J. B. Lippencott Co., Philadelphia, and is sold at 50c per copy.

We desire at this time to emphasize the fact that every man, woman and child interested in promoting the study of poultry in our public schools, may do and should do their share in bringing conditions about whereby compulsory laws may be enacted in every state, demanding a certain amount of time be given each week in all our public schools, to the study of poultry culture in its every phase. Believe this is of greatest importance, especially in the rural and suburban districts. If the many interested in all parts of the country would give this subject real thought and consideration and in turn merge thoughts into real action, great good may be accomplished with gratifying results as the answer.

We believe all local poultry associations everywhere should take action in this regard in bringing this matter to the immediate attention of their local school boards.

Editor American Poultry Journal,
Chicago, Ill.

Dear Sir:

Have just received the first copies of trial subscription, and am amazed and delighted with the improvement that has been made in the Journal since I used to take it a number of years ago. The photos of prize winners at the big shows are worth the price alone. They are a positive education to a breeder who is unable to attend. I have started a "scrap-book" of the pictures of my variety. Keep up the good work.

Some of the other papers that can only spare space for "winnings of our advertisers" use up 20 or 30 pages of fine print in knocking—knocking—knocking at others. They have made me so tired that I often throw my copies away without opening them.

Hope I have not been too lengthy in my remarks, but I am so pleased at finding a journal that is really worth while that I could not help writing to tell you about it.

Yours truly,
Clifford Hartman.



Mark your profitable chickens with



Then you can easily discard your unproductive stock and secure maximum profits.

Key-Ring-O's are simple, efficient, economical, very light, last a lifetime; put on like a key ring but easier, and stay on till removed. A trial will convince you of their superiority.

Made in ten permanent colors: Black, White, Dark Blue, Light Blue, Pink, Red, Green, Yellow, Purple and Garnet.

Six sizes: No. 1, Pigeon; No. 3, Baby Chick; No. 2, Medium, for Mediterranean Breeds; No. 4, Large, for American Breeds; No. 5, Bantam; No. 6, Extra Large, for Asiatic Breeds.

Seven 2c stamps will bring you 15 bands, with our invaluable circular, "Increasing Poultry Profits."

Write today, stating color and size bands desired.

NEWELL & GORDINIER,
MANUFACTURERS.

DEPT. 47. TROY, NEW YORK.

This Carrier System Gives Your Eggs a

"Second" Shell

of skin-tight parchment. They don't break. They keep fresh longer. Carriers may be sealed and still go at parcel post rates, if you

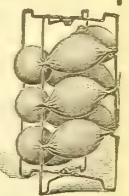
"Hammock"

Your EGGS

Win new customers and hold the old. Reels and carriers returnable "knocked down." Delivery economy. Agents, write for big deal. Send postal for your copy of our free book.

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CHANGE in PRICES

Owing to constant rise in cost of materials we are forced to make a slight advance in prices on our Leg Bands for Poultry, effective March 15, 1916.

Write for new price list Today.

KEYES-DAVIS COMPANY, Inc.

Dept. 502 BATTLE CREEK, MICH.

Deer's Quality White Rocks

Eggs, Eggs—Some extra nice birds for sale Write for mating list

F. L. DEER - Franklin, Ind.



Shoemaker Poultry Farm

Freeport Illinois

Established
over
26 Years

QUALITY TELLS

The 44 prizes on 54 entries which we won at the Chicago Coliseum Show, Chicago, December, 1915, in competition with the world, proves conclusively the wonderful quality of the fowls bred at the

Shoemaker Poultry Farm

If you want to raise THIS QUALITY of birds, BUY YOUR EGGS for hatching NOW from this Great Poultry Farm at the following prices: Black Langshans, Barred, Buff and White Plymouth Rocks, Silver and White Wyandottes, S. C. Black Minorcas, S. C. Brown and White Leghorns, R. C. Brown and White Leghorns, Buff Leghorns, \$2.00 per 13; \$3.50 per 26; \$5.00 per 39. Light Brahmas, Partridge Cochins, S. C. R. I. Reds, Buff Orpingtons, B. B. Red Games, Golden, Buff, Partridge and Columbian Wyandottes, Houdans, R. C. Black Minorcas, White Minorcas, Silver Spangled Hamburgs, Mottled Anconas, Buff Cochins and Golden Sebright Bantams, \$2.50 per 13; \$4.50 per 26; \$6.00 per 39. R. C. R. I. Reds, Black Javas, Dark Cornish, Red Caps, Blue Andalusians, White Faced Black Spanish, \$2.75 per 13; \$5.00 per 26; \$7.00 per 39. Dark Brahmas, Buff Cochins, White Orpingtons, Black Wyandottes, White Crested Black Polish, \$3.00 per 13. Black Sumatra Games, \$3.50 per 13; \$6.50 per 26; \$9.50 per 39. Buff Langshans, Brown Red Games, \$4.00 per 13. Pit Games and Red Pyle Games, \$5.00 per 13; \$6.50 per 26; \$9.50 per 39. Brown Red Games, \$4.00 per 13. Pit Games and Red Pyle Games, \$5.00 per 13. Mammoth Bronze Turkeys, \$5.00 per 9; \$9.00 per 18; \$13.00 per 27. Toulouse Geese, \$2.75 per 7. Embden Geese, \$3.00 per 7. Imperial Pekin and Rouen Ducks, \$2.00 per 11; \$2.50 per 22; \$5.00 per 33. Indian Runner Ducks, \$2.50 per 11; \$4.50 per 22; \$6.00 per 33. A NUMBER OF CHOICE TOULOUSE GEESE FOR SALE IN PAIRS OR TRIOS. WRITE FOR PRICES TODAY.

Buy These Eggs and Hatch Them on Your Own Place. Hatch the Chickens and Win Poultry Success.

Don't Waste Your Money on Baby Chicks

You are almost sure to be disappointed in the outcome if you do, both in number and in the QUALITY of the birds you do succeed in raising. It has recently been discovered that many of the large and widely advertised Baby Chick Hatcheries buy the eggs they hatch the chicks from at 20c to 25c per dozen

from farmers' flocks. Also, the hardships through which these poor innocents must pass in shipping is almost sure to injure them so they can never mature into serviceable breeding birds. We repeat,

Buy Shoemaker Farm Eggs
from our high class flocks and hatch the chicks on your own farm. Order today, right from this advertisement.

SEND FOR OUR 1916 BOOK OF POULTRY

It is not like an ordinary catalog, but a big 200-page text book on poultry breeding in all its branches; no other breeder in the country issues one like it. It tells you all about our wonderful birds, giving you prices on them; all about our Globe incubators, brooders and other appliances, giving the prices on same. It contains a number of color plates of leading varieties of fowls, showing the birds in their natural plumage. It tells you all about poultry ills, how to prevent and cure them, tells you what and how to feed. In fact, it is a book that if interested in poultry you cannot afford to be without. Write for it today, enclosing 15 cents. If you think the information on poultry contained therein is not worth the money, we will cheerfully refund same.

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*are the best machines on the market today and we are willing to prove it.
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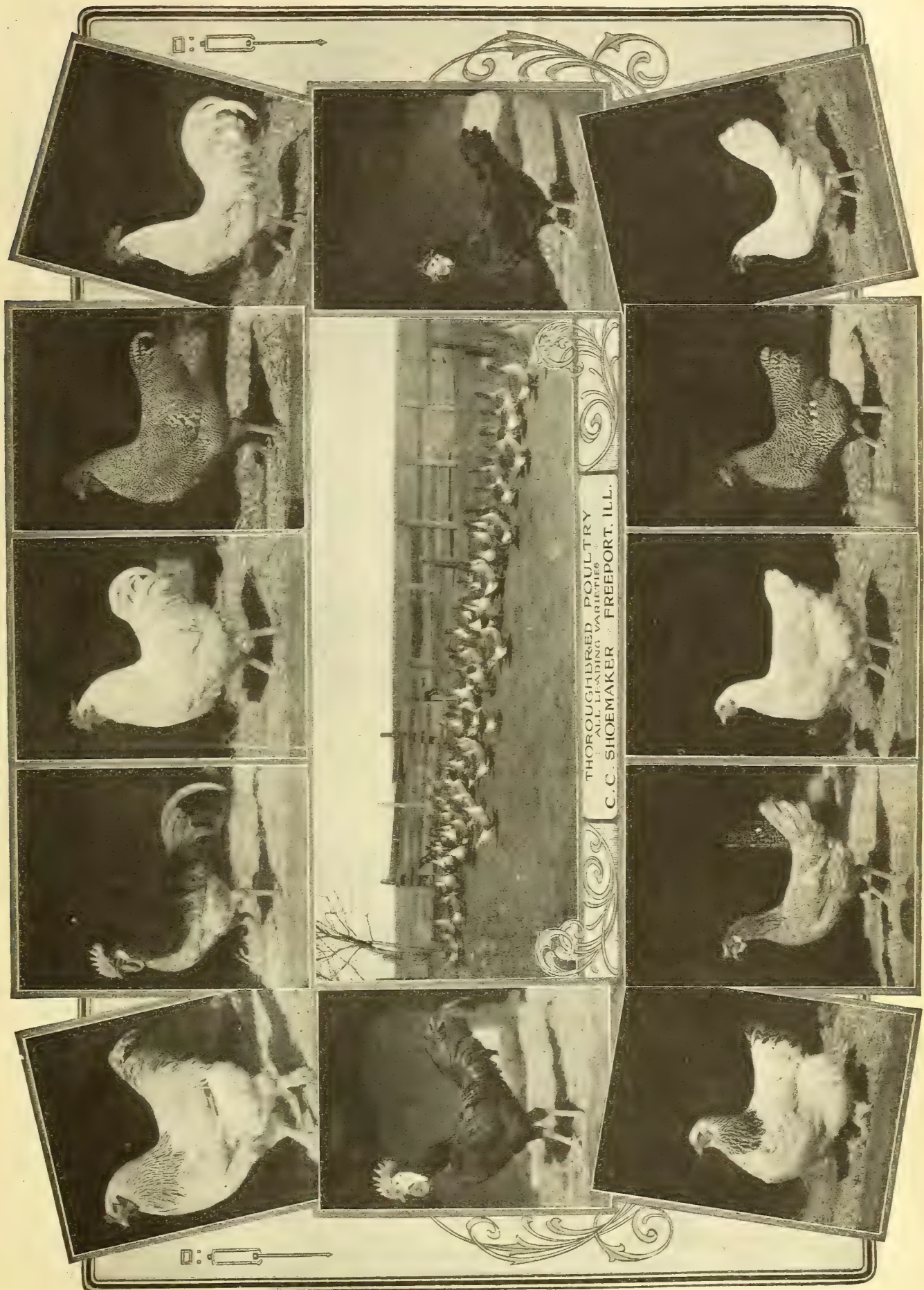
1889

C. C. SHOEMAKER

Box 605

FREEPORT, ILLINOIS

1916



The above photos of birds were taken on the C. C. Shoemaker Farm, Box 605, Freeport, Ill., on March 15, 1916, and represents only a few of the many varieties bred on this farm.

Price Complete
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Capacity
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Chicks

Equal to Five
Kerosene
Heaters

CORNELL GASOLINE
BROODER HEATER
Improved 1916

Cares for 250 Chicks
Needs little attention
No lamps to trim
No ashes, dirt or soot
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Perfect ventilation

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ITHACA, N. Y.
Manufacturers
of Poultry House
Appliances

Will
burn
any kind
of Gasoline

Keep Them in Condition!

To get a maximum egg yield next fall and winter your birds must be kept in the pink of condition from hatching to maturity. It has been proven that the feeding of Mustard to poultry promotes an increased egg production, and is also permanently beneficial to their health, vigor and stamina. **French's Poultry Mustard** is the original Poultry Mustard in America, pure and of great strength, hence only a small quantity is required for each fowl. The best results are obtained from its continuous use. Prepare your birds now for more eggs next winter. Booklet free.

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Licecil
Kills Lice

It Beats All

What the people say about it:
"LICECIL is the best lice exterminator I have ever used, and I have used a number of kinds. It is a chicken saver, money saver, labor saver. It is absolutely O. K."—J. E. Morehead, Iowa.
Circular "Seeing is Believing" tells why **LICECIL** saves chickens, money and labor. Order today and learn about it. Bottle 50c, three for \$1.25, postpaid.

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Deem's ARISTOCRAT BUCKEYES

1916 Champions

Write us today for Mating List.
Hatching Eggs, charges prepaid.

BUCKEYE POULTRY YARDS, EATON, OHIO

\$5 NO MONEY IN ADVANCE

The "Dandy" is the easiest operated, best built, fastest cutting green bone cutter made. Sold on 15 days' free trial with a broad guarantee. If it suits keep it, if not, send it back. Free catalog.

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MAKE HENS LAY

By feeding raw bone. Its egg-producing value is four times that of grain. Eggs more fertile, chicks more vigorous, broilers earlier, fowls heavier, profits larger.

MANN'S LATEST MODEL Bone Cutter

Cuts all bone with adhering meat and gristle. Never clogs. 10 Days' Free Trial. No money in advance.

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EGGS FOR HATCHING

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LAKENVELDERS.

AS THEIR name implies, Lakenvelders are a Dutch breed of fowl and have been bred extensively in Holland for many years. They are now very popular in Germany, many farms using them exclusively for egg production, as we do the Leghorns in this country. They have also been taken up in England by a number of fanciers who have made great improvement in their color markings.

The German Lakenvelders are some-



what different in color of saddle, they preferring a white or nearly white plumage. The original Dutch and the improved English type with the solid black saddle is in our opinion far more beautiful and easier to attain.

Lakenvelders were first brought to this country about 1903 and immediately were in great demand. The few fanciers who were fortunate enough to have a flock were unable to supply the demand for stock or eggs; in fact at the present time there are few breeders who cannot dispose of their surplus stock at good prices.

They are strikingly beautiful in color and form, and if you can imagine a



stately White Leghorn with a jet black neck saddle and tail you have a fair picture of a Lakenvelder.

They are very active foragers, and where they can have wide range require very little feed, and will equal any other breed for egg production. They lay a white egg and we have had pullets begin laying at five months of age, and

TOWN LOT POULTRY KEEPING

By D. D. Cavanaugh

Contains over seventy illustrations and plans of every device a poultry man needs. Complete instructions for building Colony and Poultry Houses, Automatic Release Doors, Trap Nests, Shipping and Exhibition Coops, Hot Water, Hot Air and Fireless Brooders, Automatic Exercisers and Feeders, Troughs, Water Fountains and many other useful devices; also tells how to Produce Winter Eggs. Compound Your Own Food Rations, Produce Feed at 20 Cents a Bushel, Make a Brooder for 1,000 Chicks at a Cost of \$5, How to Brood Chicks Artificially, How to Mate Fowls for Line Breeding, How to Select the Most Profitable Breeds, How to Prepare Fowls for the Show Room and Cure All Defects. Price, 50 Cents a Copy.

Poultry Common Sense

By Henry Trafford

Containing feed formulas of all kinds, general principles in breeding, home treatment of poultry diseases, natural and artificial incubation in addition, to a complete

YEARLY PEN, EGG AND HATCHING RECORD

These copyrighted records are the result of the combined experience of many prominent and successful poultrymen, and they are the simplest and most complete blanks ever devised. Price of "Poultry Common Sense" with records, 50 cents.

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An illustrated book invaluable for beginners, as it covers every phase of the poultry business in a thoro and condensed manner. If followed carefully you start on the road to success. Price, 50 Cents.

Make Your Poultry Pay

It can easily be done by following The Briggs Method, the latest and greatest help for poultry raisers in this new fifth edition of his valuable book, **Profits in Poultry Keeping Solved**, Edgar Briggs tells his wonderful secrets and how he made \$350.00 a Month, from 500 Hens.

Briggs did it—time and again. It was no mere accident. Every hen on his place had to pay 70c a month profit, \$8.40 a year, or off went her head. The Briggs System explains how Briggs did it and how you may do it. The simplicity of the Method is truly amazing. Even a few hens will pay proportionately.

Other subjects the Briggs Method covers are: Poultry silage; raising ninety-five per cent of all chicks hatched, running an incubator, erecting the poultry plant, diagrams, pictures, getting early hatches, raising late hatched chicks, getting a large egg yield every month, breeding, feeding, moulting, duck culture, turkey raising, dry mash for little chicks, formula for lice killer, preventing and curing roup, cholera and other bowel troubles, and numerous other secrets of value. Price, \$1.00.

Every Duck Breeder everywhere, beginner or experienced, should possess a copy of the new and enlarged sixth edition of Rankin's

DUCK CULTURE

By James Rankin

Greatest Duck Book Ever Published
100 Pages and Fully Illustrated

Covers every point in incubating, hatching, breeding, feeding, housing and marketing of every variety. Gives Rankin's famous feed formulas. Question Bureau contains 50 questions and answers. Highly authoritative. Price, 75 Cents.

All About Indian Runner Ducks

Latest, most practical and reliable book published on The World's Greatest Egg Producers.

The author of this valuable book is Mrs. D. O. Teasley, a duck breeder of national reputation, assisted by Mrs. Andrew Brooks, Mrs. U. R. Fishel, Mrs. Geo. E. Simpson and others, all duck raisers of practical experience, who have been very successful.

This book has separate chapters on the American Fawn and White, the English Penciled and the Pure White Runners, giving the relative merits of each.

Partial List of Contents

Origin and history; the three varieties—English Penciled, Fawn and White and White; claims for the Indian Runner; incubation and hatching; brooding; feeding and care; houses and housing; mating; marketing; questions and answers; duck don'ts, and experiences of duck breeders. Price, 75 Cents.

Order these books from American Poultry Journal Publishing Co., 542 So. Dearborn St., Chicago, Ill.

none later than six months if hatched in the Spring.

Like most Mediterranean breeds the chicks grow feathers early and must be fed nourishing feed. We find milk a great help. After they are five or six weeks old they shape up and are exceptionally active.

We are glad to note that most poultry associations are making classes for them, and there are few shows where they are not represented. At the late Madison Square Garden show there were twenty-four specimens in competition besides two large displays.

CHAS. M. SMITH,
Mgr. Wildwood Farms, Sayville, N. Y.

First Season Success.

WHY is it that many beginners are successful during their first season, but do not do as well with their flocks afterward?

In his enthusiasm for the new work with poultry the novice goes about the work with much thoroughness and care for detail. He starts with everything new, clean and fresh. He keeps things clean, he feeds wholesome food, he does not allow food to remain before the fowls or chicks in such a manner that it will spoil before eaten, and he is careful to keep his pets free from lice and mites.

Becoming more familiar with the work, he finds that the routine is not quite so much "fun" as it was, the work now becoming commonplace must be done everyday, begins to look to him like an exacting form of drudgery that keeps him away from occupations possessing more novelty. He grows careless, the coops and equipment are less clean, the sitting hens get less care or the incubator is neglected,—same too with the layers, breeders, and growing chicks. He may assume that because his success at first was so apparent that the work is "easy"—"nothing to raising chickens"—and he becomes slipshod or inclined to let the little but necessary details "slide" and to neglect essentials that were so interesting when new. Every beginner, sooner or later—and generally sooner—reaches a "know-it-all stage" and right there his downfall is likely to begin. No man has yet lived long enough to learn what there is to learn about poultry,—much less to "know it all." Something new and interesting can be learned every day. To those who will study, work, and apply themselves, the newness and interest will never wear off. When you begin to get too cock-sure of your knowledge of poultry, it is a pretty good time to "stop, look and listen" and remember that a "swelled head" and overmuch pride is pretty certain to precede a bad tumble. A veteran sometimes knows that there are some details that he can "let slide" and "get away with it," but such a course is never safe for the beginner.

Start with things clean and in good order and keep them that way. Move the flocks to new ground now and then or keep the soil sweet by frequent cultivation. Be always "on the job."

SUCCEED WITH
"Successful"
INCUBATORS and BROODERS

BACKED by 21 years of successes and strongest guaranty ever written. Poultry lessons free to every buyer. Booklet "How to Raise 48 Out of 50 Chicks"—10c. Catalog free. Make green egg-making feed for 15c per bushel in "Successful" Grain Sprouters. Write today.

DES MOINES INCUBATOR CO., 1 Second St., Des Moines, Ia.



BARSTOW'S ANCONAS

GEO. N.
BARSTOW
Box A
ONEONTA,
N. Y.

continue their string of victories by adding the Palace show Blue Ribbons to their list. This being State, National and Club show in this variety, brought out the best birds in this country, winning six regular and four special prizes. At Syracuse, Allentown and Hagerstown my birds won more first and special prizes than any other exhibitor. The judges claim my birds are the best colored and shaped birds they have handled. Fine green sheen with nice yellow legs and correct mottling are a few of their good points.

If in the market for the greatest egg producers in winter at the least cost of production or fine exhibition birds, write me. Good breeding stock reasonable. Booking orders now for eggs and chicks. Don't wait, but write today.

Birds that Win Are Birds that Pay

EXHIBITING OUR WHITE WYANDOTTES

at America's two great shows, Boston and Madison Square Garden, 1916, in the very hottest of competition, we won at Boston 1-4-5 pullet, 4 cock, 6 hen, 4 pen, \$100.00 champion challenge cup, two specials for best female. At Madison Square Garden, 2 cock, 3-4 cockerel, 2-3 pullet, 5 hen, 5 pen, 2nd display. Send for mating list, it contains a complete list of other great winnings, including the Palace Show, N. Y. When you buy from us, you buy the experience of 16 years of careful breeding and consistent winning.

The White Wyandotte Poultry Yards, H. J. W. Fay, Prop. Westborough, Mass.



White Wyandotte Farms

have furnished first prize winners at some of the best shows in America this season, and wish to extend to you our services and experience as expert breeders of White Wyandottes for the past 23 years. Stock and eggs of the highest quality for sale.

OSCAR L. BOCK, Prop. Box 1 COUNCIL BLUFFS, IOWA

W. F. Frase, Specialty Breeder Red Sussex

First, last and always — Pure Champion strain.

World's greatest exhibition and laying strain. Eggs from Chicago, Columbus and Port Huron winners. :: Write for Mating List.

W. F. FRASE Route 21 EAST AKRON, OHIO

W. E. Read's S. C. White Orpingtons

Won at two Shows in January, 1916 — 3 Silver cups, 1 Medal, 7 Specials, 4 Firsts, 2 Seconds, 1 Third, 2 Fourths and 2 Fifts. Eggs and Stock for sale. Write for Mating list.

W. E. READ - Phone 1018M - 919 North 7th Ave., MAYWOOD, ILL.

Woodcrest Partridge Wyandottes

LINE-BRED FOR STAMINA AND PERFECTION

A thousand youngsters bearing the blood of *Madison Square Garden Champions* for you. My 1915 season begins with New England Fair: Cocks 1-2; Hens 1-2; Cockerels 1-2; Pullets 1-2. All classes of stock at reasonable prices. Buy early. Mention American Poultry Journal.

CHAS. H. WOOD MUTUAL BUILDING WORCESTER, MASSACHUSETTS

SANBORN BUFF WYANDOTTES

BOSTON WINNERS

1916 matings contain, 1st and 6th pens and other New York Palace Show, December 1915, winners; Madison Garden and Boston winners. Splendid breeding stock for immediate shipment. Mating and egg list for the asking. 246-egg record at Storrs Contest.

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100,000 S. C. WHITE LEGHORN Hatching Eggs

For 1916—Fertility Guaranteed 90 Per Cent

\$1.50 per 15 Eggs. \$5.00 per 100 Eggs. \$50.00 per 1000 Eggs.
Roberts Poultry Farm Grandville, Mich.

Clean Chicken Houses Mean Healthy Fowls

The New Jersey Agricultural Experiment Station has pronounced Cinnakol a very efficient disinfectant for use in poultry houses.

CINNAKOL

will kill lice, mites and parasites in the house and on the chickens, and yet it is harmless to the fowl.

Spray with 2% solution. This makes Cinnakol very economical to use.

Ask your dealer.

25c per pint 50 per quart
\$1.50 per gal. \$6.25 for 5 gals.

Write for Booklet

CINNAKOL CHEMICAL SALES CO.
167 West 52nd St. Bayonne, N. J.



Madison Square WINNERS

Kulp's wonderful Rose Comb Brown, 242-egg strain; S. C. Brown, 240-egg strain; both big winners at Madison Square. Large birds, large eggs. 2 greatest strains bred.

Four customers in New York, two in Montana, one in Idaho, two in B. C., one in England and many others have written me that my Rose Comb Brown Leghorns excel all others as layers, and lay large eggs. I never had so many prizes reported as this year. One man writes: "When it comes to Single Comb Browns you are in a class by yourself." I have most Wonderful male color. Stock for sale, all breeds.

Rose Comb White, first Madison Square, big white eggs, big birds, record of 244 eggs.

S. C. Whites—236 to 288 egg strains. No better in the world. Try them.

S. C. Red cockerels of 248 egg strain. They are the top.

White Wyandottes—228 egg line.

Barred Rocks—270 egg strain.

Eggs \$2 to \$7 per 15. Catalogue.

W. W. KULP, Box 70, Pottstown, Pa.

Natural Hen Incubator \$3



No freight to pay. Actual hen controls everything. No lamp, no costly mistakes. Best hatcher in the world. Over 750,000 in use.

J. M. Peyle, Ill., writes: "It is the best thing I ever saw for hatching chicks."

Another: "I got 507 chicks from 540 untested eggs."

Thousands of other testimonials. Agents Wanted.

To reach the million mark in 1916 we will send you a Special Introductory Offer with our Free Catalogue.

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of fine, pure-bred poultry for 1916. This book contains many pages of poultry facts. 70 different varieties, some shown in natural colors. Illustrated and described, tells how to make hens lay, raise and care for them. Famous Greider Incubators and Brooders. Shows photo of the largest poultry farm in Penn. Prices of brooding stock and eggs for hatching, and supplies within reach of all. A perfect guide to all poultry raisers. Send 10c for this noted book on poultry.

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ENGLISH-LEGHORNS

5-6.7 lb. hens. 7 and 8 lb. cocks. Fertile eggs, guaranteed. Trapped and Pedigreed Stock.

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Marlborough, N. Y.

Importer and Breeder

Practical Pointers in Raising Fancy Fowls

Certain Qualities Essential in the Man as Well as the Birds. Fundamental Facts as Proven by Twenty Years' Experience.

By Judge W. W. Henderson

THE all important question to any one embarking in the poultry business, and especially to a young man is, whether said business can be developed to such an extent that it will pay a sufficient return for the money and labor expended as to justify one making it his vocation in life. After raising poultry for a number of years as a side issue, I have no hesitancy in answering the question in the affirmative.

The next proposition is how to make a success out of the poultry business, and in answering this question, I am going to eliminate from my discussion so-called commercial poultry business, or in other words, raising broilers or producing eggs to sell at market price, but



First prize Barred Rock pullet and champion female, St. Louis, 1912. Owned by W. W. Henderson, Bridgeton, Mo.

rather I wish to discuss what might be termed the fancy end of the game. The first and most important consideration in this, as well as all other business, is the suitability of the man for the business that he intends to follow. One man

may make a successful doctor and another a successful banker, but if the banker had studied medicine and tried to practice, or if the doctor had embarked in the banking business, they both might have been failures, but having selected a business to their liking, and one in which their peculiar talents can be brought to bear, and one in which they are naturally equipped, they have succeeded; so as I said before, a man to go into the poultry business should first determine whether he has an undying affection and interest in chickens; secondly, whether he is naturally a judge of chickens, and thirdly, whether the work incidental to raising chickens would continually be a pleasure to him, notwithstanding it lasted from early morning until late at night, and every day in the year. If he is satisfied on these three points I would say he has the proper qualities to start in the chicken business, and to elucidate a little more fully what I mean by natural judge of chickens, I will illustrate in this way—I once knew a university professor, a man of considerable learning and a neighbor of mine, who wanted to raise some thorobred chickens. Like most beginners, he started with several varieties. He had White Plymouth Rocks, Brown Leghorns and Pit Games. As we all know the Pit Games and Brown Leghorns will fly from one pen to another. He cut the wings of the male birds, but did not wish to mar the females to this extent, as they were quite numerous, and when the Pit Game hens would get into the Brown Leghorn pen, or the Brown Leghorn hens in the Pit Game pens, they were so near alike that our distinguished professor could not tell one from the other. Upon various occasions I would go to his chicken yards and separate his chickens, putting the right hens with the right male birds. A few days after one of such visits, he requested me to come and see his birds again—I went over to his poultry yards and found shingles tied on the backs of all of the Pit Game and Brown Leghorn hens. This presented such a comical sight that after I quit laughing and gained my equilibrium, I asked him what in the world he meant by that. He told me that his idea was that when the hen

CANDEE COLONY BROODERS

CAST IRON COAL BURNING-SELF REGULATING

Cold Maine to Sunny Alabama

"I raised all of my 180 chicks that I put with my brooder 6 weeks ago. The birds are very healthy, and are the strongest and largest for their age that I ever raised during my 12 years' experience, which shows that they have been properly brooded."

C. F. GRANT, Woodford, Me., April 20, 1915.

"We have 4 of the Brooders up and by the 24th will have 2000 chicks in them. It is real hot here now but they do the work fine."

A. C. MONELL, Mgr., ALABAMA LEGHORN FARMS CO.,

Mulga, Alabama, May 20, 1915.

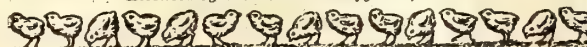
Why Candee Is Successful Everywhere

The Candee burns coal and furnishes a healthy heat with no oil fumes or gases. Heat regulated automatically, giving a constant, correct temperature without attention. Certain stops the draughts—prevents chilling of the chicks and protects the thermostat from air currents that would upset the regulation. Curtain also gives the chicks a big warm space under the hover for resting and sleeping and a room not too warm for exercising, which makes the chicks grow big and healthy.

Write today for large handsomely illustrated Colony Brooder Catalog that tells more about the Candee and contains many more letters like the above from all sections.

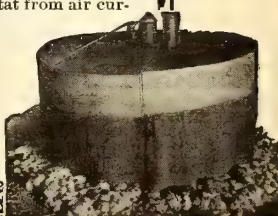
CANDEE INCUBATOR & BROODER CO., Dept. 2, Eastwood, N. Y.

Licensed by W. A. Schleit Mfg. Co., Inc.



Burns Coal

Broods up to 500 in one Flock



raised her wing in flying, she would strike the shingle and not be able to fly over the fence. It is needless to say that his plan had so many other objections that it was not practical, and that a man who had so little natural conception of a chicken, that could not tell one from the other, or could not educate himself to tell one from the other, did not make a success in his poultry venture, notwithstanding he was a professor in a State University of considerable reputation.

My first suggestion towards success is that any of the well known Standard breeds be selected. My preference, naturally, leans to the Barred Plymouth Rock, as I have been a breeder of that variety for many years and have seen the popularity of other varieties come and go, but like Tennyson's brook, the popularity of the Barred Plymouth Rock "goes on forever." It has been, is, and I venture my reputation, always will be the most popular breed of fowls in America, and as the American people



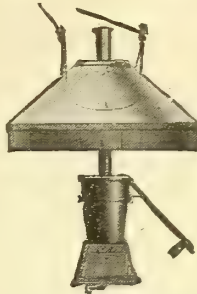
First prize White Plymouth Rock cockerel Iowa State Show, 1915. Also headed second old pen Illinois State Show, 1916. Owned by S. A. Tyler, Lincoln Highway, De Kalb, Ill.

are quick to detect merit, so they are equally quick to discard a worthless thing. I venture that the popularity of the Barred Plymouth Rock is based upon a foundation of merit, that will make it continue to be the leading fowl for all time to come; and in saying this I wish to warn the breeders of this variety and the poultry judges as well, against a seeming tendency to pay too much attention (possibly) to the coloring of the bird and too great an inclination to breed a bird that is short in leg, short in back and more of a Wyandotte type. The Barred Rock that has made the breed popular has been rather a rangy bird with big thigh, legs wide apart and the ideal chicken for the farm, for after all breeders may continue to sell to one another, but the primary demand must come from the farmer and from the chicken raiser who is raising birds for the meat and for the eggs that they will produce.

In taking up Barred Plymouth Rocks, one must appreciate that his competition will be strong, and it is only to the breeder that is willing to compete with the best wherever he goes that can get to the front in Barred Plymouth Rocks.

Another breed that I would recommend to the beginner is the Silver Laced Wyandotte. This is a magnificent fowl

More Dependable Than Mother Hen



The Hall Company marketed the coal heated Colony Brooder years before any other was conceived. The Hall is the original Colony Brooder.

Write for the Big FREE HALL BOOK

The boiled down experience of many users of Hall Equipment. Mention whether you are interested in Brooder or Incubator.

HALL MAMMOTH INCUBATOR COMPANY

107 Southern Avenue, Little Falls, N. Y.

Capacities 1,200 to 20,100 Eggs. The Original and Standard Mammoth.



Successful poultry raisers all over the country will tell you they find that strong, healthy birds, the money makers, are range-raised chicks—raised in the open with a Colony Brooder for a mother. The

HALL COLONY BROODER

is no experiment. It broods up to 500 chicks at one-tenth the labor and cost of any small flock system and with no danger of chilled or gas-poisoned chicks.

Send NOW for the Hall book described below and read what many poultrymen who use the Hall say about it, as well as the

Hall Incubator

Made really sectional so your incubator can expand with your business—and you needn't tear out the cellar door or wall to install the Hall. Sections measure 29"x24"x54" over all, and weigh 75 lbs.—easily handled by one man. The Hall makes it possible for you to start small and grow right.

A postal will do—send it NOW—before you forget it. Tells all the things you have always wanted to know—Sanitation, Maximum Flock Size, Chicks Indoors, Chicks Afield, etc.

BERRY'S QUICK ACTION GRAIN SPROUTER

SPRING CONDITIONS IN WINTER AND FEED TEN CENTS PER BUSHEL MAKE BIG STEADY INCOME

Here is what it will do—Results in a nutshell:

Diminishes cost of feed 50 to 100%

Increases egg production 50 to 100%

Starts pullets to lay early

Fattens poultry 50% cheaper and quicker

Raises baby chicks easier and better

Increases the profits 50 to 100%

"BERRY'S QUICK ACTION" is undoubtedly the leader. Perfected from actual experience and careful tests and comparisons on our practical poultry farm. Made of galvanized rust-proof steel. Indestructible, safe, quick, easy to operate, low in cost. You are Protected by our Absolute Ironclad Guarantee. "BERRY'S QUICK ACTION" will do what we claim or your money back. Sold on the Golden Rule Plan—A SQUARE DEAL TO ALL.

Don't buy a sprouter until you have read all about the "QUICK ACTION." Send today for FREE book on winter eggs and about our wonderful sprouter, incubator, supplies and pure-bred poultry. Address



BERRY'S POULTRY FARM

Box 409

CLARINDA, IOWA

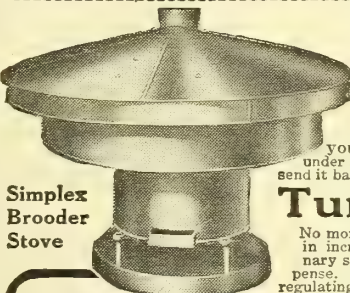
Results of Berry's Quick Action Sprouter

Brood Your Chicks 30 Days Free!

Use this wonderful new Simplex Brooder Stove in your own brooder house 30 days absolutely free. Try the stove under all conditions. Then, at the end of 30 days, if you are not delighted, send it back and we'll cheerfully refund your money. You alone are the judge.

Turns Losses To Profits

No more deaths from white diarrhoea and poor ventilation. Pays for itself in increased profits. Raises 20 to 50 per cent more chicks than with ordinary systems. And at 1-5 the cost, 1-10 the work and 1-4 the operating expense. One stove broods 1,500 chicks successfully. Also small sizes. Self-regulating, even temperature. Simple construction. Try it 30 days, free.



Simplex Brooder Stove

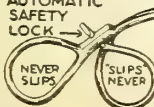
Free Brooder Book

Write today for valuable brooder book and catalog. Tells how to "Increase Your Profits by Decreasing Mortality." Tells how to save chicks you have been losing each year through disease and faulty brooding. How to make more money. Also catalog and details of 30-day free trial offer. No obligations. Write NOW!

SIMPLEX BROODER STOVE COMPANY, 3814 Fourth Street, GRAND RAPIDS, MICH.

AUTOMATIC SAFETY LOCK

UNOBSTRUCTED VISION



My automatic, safety-locking Tools guaranteed to please and superior to all others or money refunded. Used successfully and endorsed by State Agri. Exp. Colleges, Experts and Novices alike. Sold on money-back basis. Send 4c. in stamps for booklet, giving instructions, prices and facts regarding capons and caponizing instruments. Patents pending. S. K. BURDIN, 66 Tranby Avenue, TORONTO, ONT.

CAPONIZING

and one of the most beautiful of the feathered world when properly bred. There seems to be so few good ones, that if a breeder thru extra perseverance or extra knowledge did breed the Silver Wyandotte to perfection he instantly would jump to the front, and the demand for his stock will probably be greater than he could supply. I am convinced that the above remarks on Silver Laced Wyandottes will arouse the ire and condemnation of many American breeders of this fowl, but when one compares the Silver Wyandotte produced in England with the birds shown in America, one wonders why it is that the American breeder who excels in nearly all other varieties should be so woefully behind in the breeding of this magnificent fowl. I am also inclined to believe that the fault does not all lie with the breeder, but that the poultry judge has been largely responsible for this result. The inclination the past few years of the judge to tie the ribbon on a short legged, short backed, pudgy, jammed in, fluffy little bird, in my judgment, has been to the serious detriment of the Silver Wyandotte. I am happy to note that the last Standard of perfection

has lengthened the back of the Wyandotte, and if the revision committee had also lengthened its legs, I believe it would improve the bird, or if the judges in their awards will cease giving the prizes to the short, duck legged specimens, it would be to the benefit of the breed. There are many other splendid varieties, such as the White Plymouth Rock, Rhode Island Reds, Orpingtons, the Leghorns, Cochins and Brahmas, in fact success or failure does not depend so much upon the breed selected as upon the man breeding them.

The next proposition is how to begin. I would recommend that for the first year or two one continues in his present occupation, and raise as many birds of the selected variety as he can, as a side line, that he studies the variety upon all occasions, that he spends as much time with his chickens as possible, that he writes to the Experiment Stations and keeps up with all modern plans for feeding and developing, that he attends every poultry show possible for him to visit, that he studies his neighbors' chickens of the same variety, that he experiments with the different incubators and brooders, in fact that he works with

his chickens until he has acquired a thoro knowledge of the variety that he is breeding, a thoro idea of how to mate them for results, a thoro knowledge of how to raise chickens, a thoro knowledge of how to condition them for a show, and a thoro knowledge of how to select the best from the poorer specimens, in fact until he has a thoro knowledge of the business that he contemplates embarking in. After he has acquired this knowledge, and if he finds he still has the same affection for the feathered fowls that he had in the beginning, if he finds that he has not been discouraged by mistakes and disappointments, and if he has raised a goodly number of good birds, he is then in a position to start out to make the raising of the variety of chickens selected as his life work. He should also have some money to start with. The failure of most people who embark in the chicken business is due to the fact that they expect the hen to support herself, to support the family, pay off the mortgage on the place, and to furnish money to build up a bank account, without giving her sufficient time to do it. You cannot start in the hen business today and expect to

Here is Your Chance to Save Money

Read This Letter from San Jose, California

Simplex Supply House, Pontiac Building, Chicago, Ill.

Gentlemen:—The Simplex "Faultless" Poultry Feeder ordered from you some time ago has given entire satisfaction and is indeed "faultless" in every particular in our opinion, as is expressed by the enclosed

order for eight more, together with order for twelve Grit Boxes and one-half dozen Dry Mash Feeders, all of which have been tested out to our entire satisfaction.

Thanking you for past courtesies, promptness and square-dealing, I remain,

Yours very truly,
S. N. GOLDY.

229 S. 16th St., San Jose, Cal.

6-Quart
only
\$1.20

\$1.60

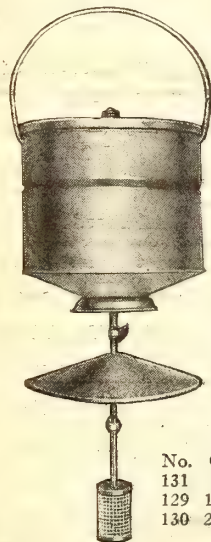
10 Quarts
The Original



The original "Kant Klog" automatic feeder; feeds anything from millet seed to whole corn, either mixed or separate. Swinging pendulum motion — absolutely adjustable — simply impossible to clog.

Birds peck at grain in bait carrier, swinging pendulum and grain drops from cup under hopper to deflector and then on ground.

No.	Capacity.	Retail Price.	Our Net Price.
131	6-qt.	\$1.50	\$1.20
129	10-qt.	2.00	1.60
130	20-qt.	2.50	2.00



We Sell Direct from
Factory to Consumer

Save 20% to 33 1/3%
By Buying Your Poultry
Appliances from Us

We specialize in the manufacture of automatic feeders, which save more time and more feed than any other appliance in the poultry yard. No well equipped poultry farm is seen today where automatic feeders are not used. On large farms they save the wages of at least one man. For small flocks they can not be excelled. Filling the feeder once a week is a good deal less work than feeding several times a day. There will be no grain lying around on the ground, no loss from pilfering birds, rats and mice. No staying at home simply to feed the chickens.

In addition to cutting down the feed bills, automatic feeders increase the egg production of the hens. They will be in laying condition at all times, as these feeders give them the proper exercise and they digest every bit of grain they eat.

Be up-to-date and increase the profit from these fowls at least 25% by the use of automatic feeders. Made in styles and sizes shown hereon. We guarantee they give absolute satisfaction. If they do not, we refund the money. That's the guarantee under which we sell all our products—direct to the consumer at wholesale prices.

Simplex Supply House
Pontiac Building Chicago, Illinois

REMEMBER—Your money is refunded promptly if you are not satisfied.

\$1.00

Smaller
Sizes
75c

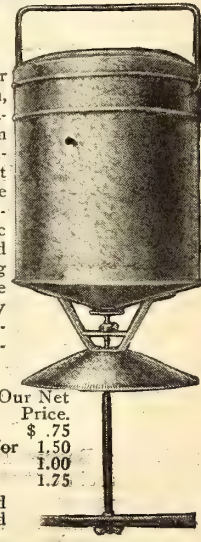
16 Quarts
Half-Bushel



This "Faultless" feeder feeds any kind of grain, either mixed or separate. Rotary pendulum motion, absolutely adjustable and cannot clog. It represents the biggest value ever offered in automatic feeders. Furnished complete, including cover and bail, at the following ridiculously low prices, made possible only by our enormous output:

No.	Capac.	Retail Price.	Our Net Price.
151	5 Qt.	\$1.00	\$.75
*152	1/4 Bu.	1.00 2 for	1.50
153	1/2 Bu.	1.50	1.00
154	1 Bu.	2.00	1.75

*Note—No. 152 packed two in box and not sold singly.



Our money-saving catalog describing Feeders, Brooders, Incubators, Grain Sprouters, Fountains, Feeding Troughs, Mash Hoppers, Grit Boxes, Brood Coops, Exhibition Coops, Trap Nests, Egg Carriers, Leg Bands and various Remedies and Preparations of merit will be sent upon request or upon receipt of your order from this advertisement.



**For Greatest Satisfaction Use
DOUBLE SERVICE
Automobile Tires
Guaranteed 7,000 Miles Service
Absolutely Punctureproof**

Double Service Tires are made double the thickness of the best standard make tires.

This 100% greater wearing surface naturally gives them much more mileage and service. The average of 12 miles of tough

fabric and one inch surface tread rubber makes these tires absolutely punctureproof.

These tires excel all others for use in the country over rough and rugged roads as well as on hard pavements. They are as easy riding and resilient as any other pneumatic tire—the air space and pressure being the same.

They are the most economical and "care free" tires made and are used where tires must be depended on and tire troubles cannot be tolerated. Many Double Service style tires are in use in the U. S. government and European War service. Our output is limited to a certain amount, but for a short time we offer the following reduced special prices as an introductory offer:

PRICES

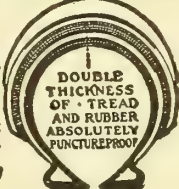
Tires Tubes		Tires Tubes	
30x3 in.	\$8.60 \$2.30	36x4 in.	\$17.45 \$4.65
30x3 1/2 in.	10.85 3.10	36x4 1/2 in.	21.20 5.60
32x3 1/2 in.	12.75 3.20	38x4 1/2 in.	22.60 5.75
33x4 in.	15.75 4.20	38x5 in.	23.60 6.20
34x4 in.	16.70 4.35	38x5 1/2 in.	26.30 6.60

All other sizes not included in above list also furnished. Non-skids at 10% additional.

Terms: Payment with order at above special prices, a 10% discount allowed on orders for two or more tires. All personal checks must be certified.

Try these tires now and be convinced of their very high qualities. Sold direct to the consumer only. Descriptive folder upon request. Write for it.

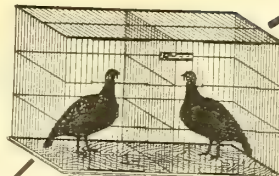
Double Service Tire & Rubber Co., Akron, O.
Dept. A



rake in the shekels tomorrow, any more than you can start in any other business without capital, and expect to get returns immediately. I believe that the same amount of capital invested in the poultry business will bring as quick returns and as much returns, if intelligently invested as in any other business. Do not expect to strike natural gas or an oil gusher and become wealthy at once, in the hen business. On the other hand, I wish to emphasize, that if you are willing to abide your time, and work faithfully and intelligently, your success is absolutely sure, and your reward will come in due course. If you have a reasonable amount of money to begin with, and have made up your mind to make the raising of fancy poultry your life work, buy yourself a well located piece of ground of about five acres or more, in accordance with your purse, study seriously the kind of houses you wish to build, waste no money on fancy decorations, but construct all houses well, and under all circumstances would suggest that your permanent buildings should be placed on concrete foundations. My personal belief is that dirt floor is superior to any other kind. I am equally as confident that concrete foundations, while a little more expensive in the beginning, are far much cheaper in the long run. Determine the kind of incubators and brooders that you wish to use, buy what you need of the very best, but do not over-buy, wait until you need an article, or will shortly need it, before purchasing, as many thousands of dollars are often thrown away by poultrymen by buying useless chicken paraphernalia. Feed as cheaply and scientifically as you can. Living near St. Louis as I do, I find a most excellent feed is bakers' stale bread, which can be purchased cheaply, mixed with bran, shorts and alfalfa. I also find that I can purchase cabbage by the ton during the winter at a reasonable figure. I believe there is no green food equal to cabbage.

In the above I have merely touched upon a few of the salient points to be considered in producing your chickens.

The next question that arises is, after you have produced an excellent quality of the variety of fowl that you are raising. How can you sell them? My first suggestion is that you exhibit your birds at as many of the leading shows as possible. Do not be afraid to go up against the other fellow, for he has had his troubles as well as you. Remember that the perfect bird has never yet been raised, and it may be that the fowls that you have in your yard are as near perfection as has been produced. If the judges determine that you have good birds, and have awarded you your share of the ribbons, advertise your winnings and what you have to sell, in any of the good poultry papers that are being published. Do not feel that you have to confine your advertising entirely to your home paper, as a demand for your fowls can be created in all states in the Union by the message carried in your advertisement in the poultry press, and you will frequently find many of your best customers a long ways from home. In fact, there seems to be something in the human mind that makes one feel that if they have to send a long way for an article, it must necessarily be better than one purchased near home. In your advertisement tell a straightforward story of the facts; by gross exaggerations, by hip-hip-hurrahs, you may temporarily gain some advantage, but I am con-



Show your fowls in our clean and handy, vermin-proof coops. Used by leading fanciers and poultry shows. Finest looking coop on market.

Keipper Collapsible Coops

Made entirely of galvanized wire. Fold perfectly flat. Easily stored. Easy to set up. Shipped by parcel post. Outfits rented to bench shows. Write for catalog and money-saving prices.

KEIPPER COOPING CO., 1401 First St., Milwaukee, Wis.

Why feed the Drones

Cull the drones from your flock with the "Ever Ready" Trap Nest. "The year 'round necessity." Cheapest and most satisfactory nest on the market. Catalog free. EVER READY TRAP NEST CO., Box 4 LA GRANGE, MO.

Marble Grit
The Natural Hens Teeth

Just as important as feed. Better than shells or other grit. Write today for free samples and circular. Good proposition for dealers.

MARBLE CLIFF QUARRIES CO.

111 Hartman Bldg. Columbus, Ohio

ROUP—Stop That Wheezing and Sneezing

A package of Roup Remedy for flock treatment also bottle of Roup Remedy for individual treatment. Price 50c.

Colds and Bronchitis capsules, 100 for 50c. Guaranteed to satisfy or money refunded. Mailed upon receipt of price. Stamps accepted. Write me your troubles.

DR. A. C. KING

2013 S. Halsted Street Chicago, Illinois

THE AIREDALE

is the cheapest, as well as the best dog bred today when you consider that "They will do anything that another dog can do." Hunters, raters, watch-dogs, companions, stock drivers, all in one. Spayed Bitches make wonderful good all round dogs. Our Pamphlet will tell you—its FREE. Collies—Beautiful, intelligent, reliable. Dog and bitch pups, spayed pups, matured stock for sale. List on request. P. L. Savage, St. Charles, Illinois.



DISCOVERED

The world's best safety lamp and perfect egg tester. Has extra strong bulis-eye lens. Price single tester.....\$1.00 Double tester.....1.25

Post paid. Free circular. C. Lingeman 3110 Elliot Ave. St. Louis, Mo.



COLORED LEG BANDS

Big Black Figures on White Background. All colors, all sizes, for all fowls, and pigeons. Birds identified without handling. Saves time and labor. Baby chick bands 18 colors, not numbered. The best band in the world to-day. Samples and catalog FREE. Mention A. P. J.

A. P. Spiller : Dept. A : Beverly, Mass.

The Automatic Trap Nest

is the best, most simple, accurate and impossible to get out of order. You should use the trapnest, the cost is small, the profit large. The Automatic will weed out the poor layers out of your flock, reduce your feed bill, increase your profits and enable you to breed to Standard. Send for particulars.

THE AUTOMATIC TRAP NEST CO.
475 Wisconsin Street Kenosha, Wis.

AVICOL stops chicks dying

A new scientific discovery that never fails. Nothing else on the market like it. Leading poultry breeders and poultry-supply dealers testify that it positively cures and prevents White Diarrhea or Chick Cholera, Black-Head in turkeys, Going-Light in pigeons and all other bowel diseases of poultry. The only remedy Boud-Guaranteed to do the work. You don't risk one cent in trying it. Price 25c and 50c, delivered to you by mail prepaid. BURELL-MILLER 209 When Bldg., Indianapolis, Ind.

ACT NOW!

BOOK YOUR ORDER EARLY

English 200-Egg Strain

S. C. W. Leghorns White Wyandottes
S. C. R. I. Reds Buff Orpingtons

"World's Champion Layers"

Our Certified Contest Records are PROOF

Leghorns—Highest Award North American egg laying contest. Five hens laying 1139 eggs, as follows: 251, 250, 224, 222, 192 eggs, 100 pens competing. A thoroughbred English cockerel sired a pullet which made an official record of 314 eggs in the N. A. Egg Competition, 1915. If you want Leghorns that lay, if official records mean anything to you, you will secure our strain. Reds—Highest Award in their class. N. A. Contest, five hens laying 1043 eggs, 209 average, highest official Red record known. White Wyandottes—Mo. Contest—Ten birds laid 2006 eggs, over 200 average. One layer made a record of 265 eggs.

HATCHING EGGS

Baby Chicks
Breeding Stock

Write today for copy of "The Story of the 200-Egg Hen," containing pictures of our competition winners, plans of trapnest, feeding formulas and other valuable information that will increase your egg yield. Price 10c, deducted from first order.

THE PENNA. POULTRY FARM
Box A, Lancaster, Pa.



Get This Poultry Book

—It leaves nothing to chance or guesswork. Tells positively how to Start Pullets Laying in Sept. & Oct.—How to Get More Eggs in Winter—Fattening Pullets—How Breeders Get Fertile Eggs—Mating, Forcing, Feeding, etc., "Feeding Secrets of Famous Poultrymen" is sent complimentary by manufacturers of Darling's Meat Crisps—a highly concentrated, sanitary poultry feed. To get book, address

DARLING & COMPANY, Dept. 2, U. S. Yards, CHICAGO

Square Deal Poultry Farm's S. C. Black MINORCAS

Again winners at Chicago in strong competition: 3d chl., 5 ck., 4 hen and 3d chl., 9 pens for egg trade and baby chicks. Write for prices.

MRS. TELA E. WATTS WEST CONCORD, MINNESOTA

strained to believe that the breeder who continuously succeeds must not grossly misrepresent or exaggerate his article for sale. Remember the admonition of the late Abraham Lincoln: "You cannot fool all of the people all of the time." On the other hand, one with propriety should state his message in his advertisement in a clear, concise manner. It should be convincing, it should be attractive, and it should be so written, that the prospective buyer will be drawn to it in such a way that he will answer same. Another matter frequently considered, is whether it is better to place a small advertisement in many papers or to select those that you consider the best and concentrate your advertisements in such periodicals. My personal judgment is, that the latter plan is preferable. In this way you can take a sufficient space to attract attention in itself, and as many of the leading breeders are subscribers to most all poultry papers, your advertisement in such a journal will be seen by nearly all breeders. By taking a small space in many papers, it is frequently overlooked, it does not attract attention, and frequently the territory overlaps.

In conclusion, deal fair with your customer, send him his money's worth, for this most always assures you of repeat orders, and in saying this let your own conscience be your judge. Do not let the first complaint that you receive dishearten or discourage you, often the buyer does not fully appreciate the quality of the bird sent. Try and find out before filling your orders the kind of bird that the purchaser wants. All breeders have a specific hobby. Some see nothing but the head, others under color, others shape, others color of legs

and beak, or possibly the eye. If you should send a bird to a breeder whose hobby was the comb, the bird being excellent in every other particular yet poor



First prize White Wyandotte hen and also winner of special at National White Wyandotte Club meet at Buffalo, N. Y., November, 1915. Owned and exhibited by Fernbrook Farm, Menands Road, Albany, N. Y.

in comb, the customer would be dissatisfied. You should have sent the same buyer a much inferior bird but with a splendid comb, and he would be satisfied. Try and ascertain from the

correspondence exactly what the purchaser wishes before filling the order.

I have no hesitancy in saying that any one embarking in the poultry business, who will follow out the above suggestions, will succeed nicely. In fact not only a good living can be made, but a handsome revenue can be derived from the poultry business. I have been a breeder of Barred Plymouth Rocks for the last twenty years, have never devoted my entire attention to it, but have seen it grow from one small chicken house of 16x10 dimensions, until I now believe I have one of the largest Barred Rock farms in America. I have seen my business grow from the production of sufficient eggs to supply my own table until now my sales amount to many thousand dollars' worth per year. I have seen it grow from a few meagre sales around home, and at our local poultry show, until I am now shipping birds and eggs to nearly every state in the United States, also to Canada, and have shipped a large consignment as far south as Brazil, South America. Seeing all this convinces me that it is a business worthy of the attention, thought, and occupation of any man. It is no easy road to success. It requires the same intelligence and effort as any other business does. I have tried banking and I have tried the poultry business, and I can assure you that to succeed in the poultry business requires as high a degree of intelligence, as much effort and as much care as the banking business. I am also equally sure that the same degree of effort, intelligent continuity of purpose, of thought and hard work is surer to bring success in the poultry business than in the banking or most any other business.

Owen Farms Matings for 1916

— IN —

Buff Orpingtons
White Orpingtons
White Plymouth Rocks

White Wyandottes
S. C. Rhode Island Reds
S. C. White Leghorns

THIS MEANS MUCH TO YOU

- 1st They mean that you will receive eggs from the best quality pens in AMERICA. Pens that have been carefully mated by Maurice F. Delano, who has had over twenty-five years experience in breeding thoroughbred poultry, and by Frank H. Davey, who has had forty years of such experience.
- 2nd They mean that your eggs will come from the best and most careful line-bred flocks in all the WORLD in my varieties. Flocks that year after year have gone serenely on producing the best specimens for the best shows in the United States, Canada and various Foreign Countries.
768 OWEN FARMS BIRDS HAVE BEEN PLACED AMONG THE WINNERS AT MADISON SQUARE GARDEN, NEW YORK, AND 393 OF THESE BIRDS HAVE WON FIRST PRIZES SO FAR AS COMPETITION FROM OTHER BREEDERS IS CONCERNED.
NO SIMILAR RECORD HAS BEEN MADE BY THE BIRDS OF ANY OTHER BREEDER IN ALL THE WORLD.
- 3rd They mean that for a very moderate expenditure you can share with me the results of years of careful breeding and of thousands and thousands of dollars spent for foundation birds to help make the SUPREMACY OF OWEN FARMS FLOCKS. Every one of my best matings is carefully described in my 1916 Mating List. I HAVE NO RESERVE MATINGS. Every egg is marked with the pen number and breed initials when it is picked up. EGGS FROM ALL MY BEST MATINGS AS THEY RUN ARE:

\$10.00 for 15. \$19.00 for 30. \$30.00 for 50. \$50.00 for 100.

- 4th They mean that for a still more moderate expenditure you can secure splendid results and share in my careful line-breeding if you buy eggs from my splendid second quality matings. These matings have been made with the same care and thought that I have spent on my best pens. The males are extremely fine. They comprise my star reserve males that I carry to use in case of accident to my regular pen headers and the cream of my males that I am carrying over to make prize winning cock birds. The females are all good and carefully selected as to blood lines and individual quality to mate with each male. These matings will produce better results than the best pens of most breeders and the price is only

\$5.00 for 15. \$15.00 for 50. \$25.00 for 100.

The American Poultry Association and Horace Greeley's Pig.

AS THE story goes, Horace Greeley got interested in farming and bought a good lusty shoat and was much interested in seeing it grow, and in feeding and caring for him. When he had killed and marketed the pig the following fall, he was asked how he came out in his

venture. He replied: "I have made heavily on pork, but have lost like the devil on corn."

The great American Poultry Association, formed to improve and sustain the best interests of poultry culture, seems to have fattened at a huge cost. It is making heavily on political she-nan-agen, but is losing like the devil on real merit. Political hogs make mighty poor pork.

Said the "Bald-headed Eagle of the A. P. A."

"Listen, ye members, and I'll show ye the way
How I catch the "Huckster" and little "String man,"
And to have my own way, I'll show you I can."

"The poultry business was made to catch suckers,
And squeeze dollars out of bone-headed muckers,
And if you'll but listen to what I say
We'll run the A. P. A. in just My way."

I am the great I AM, spelt big,
Tho the A. P. A. may lose like the H. Greeley Pig:
We'll kill off these little duffers today
Then my hot-air artists will have full sway."

"Hip! hip! hurray! they can soar still higher,
If you'll let me prove this duffer a liar,
What does it matter to lose one little man
When things are done by the great I AM!"

If these duffers only knew how to advertise
And would use space of a very large size,
I would boom these few so awfully big
You would soon forget the H. Greeley pig.

But they use in advertising a very small space,
Which counts little for me in this money-mad race,
If they only knew how to spend money on ME
In a sure safe place they always would be."

I would boom them and boom them and take them so high
That the supply of hot-air would become awfully shy,
But they don't do it, and I don't get their cash,
That is the reason why these duffers I'll smash.

LIFE MEMBER A. P. A.

Brooder Chicks.

BEAR in mind that you must have patience and train your brooder chicks on the start, that the little birds are not "fools" just because they don't take care of themselves properly. Hen brooded chicks have a mother to train them, the brooder chicks have to learn their lessons from the attendant. If started right they will generally do right.

Get them into the brooder.—which should be ready, warmed and regulated properly, in the afternoon just in time to have their first feed and then be ready for bed. Tuck them under the hover. If there is much more of daylight, leave a felt tab of the hover pinned up for a door way. Look them over now and then to be sure they do not huddle outside hover; if they cry to be hovered, tuck them under hover to warm up. Be sure that all are safely under hover at dark.

We like to litter the brooder with cut-clover over a thin layer of sand. The chicks are fed on feeding boards or pans. Some of the grain food gets into litter where they soon learn to scratch for it. After a meal, the first few days, the chicks are tucked under hover again. They soon learn where to go to warm up. Then in similar manner they are trained to go to exercise part of brooder and return to hover. By the end of first week they are so well trained that they have learned to take a little run each day outside the brooder on the ground.

OWEN FARMS 1914-15 and 1915-16 RECORD

At Madison Square Garden, New York, The Palace New York Show, Boston, Chicago, New York State Fair and Allentown includes

47 FIRSTS IN 97 CLASSES

All Competitors Combined Won 50 Firsts

This record at the LEADING SHOWS simply proves that my birds are a little finer than ever before and that they absolutely lead all competitors for the 1916 Breeding Season.

At Madison Square Garden Show, New York, 1915

18 out of a possible 27 firsts on Cockerel.

20 out of a possible 32 firsts on Pen.

At MADISON SQUARE GARDEN, NEW YORK, and at BOSTON in 1915-16, I won 7 FIRSTS on BUFF ORPINGTONS and FIRST COLLECTION at each show. At NEW YORK PALACE SHOW in 1915 I won ALL 5 FIRSTS on WHITE ORPINGTONS and FIRST COLLECTION. At BOSTON in 1915 and in 1916 I won FIRST COLLECTION each year on S. C. REDS. At CHICAGO COLISEUM SHOW in 1914 I won ALL 6 FIRSTS and FIRST COLLECTION on WHITE WYANDOTTES. At BOSTON in 1915 I won FIRST, SECOND and THIRD PULLET and in 1916 FIRST and SECOND COCKEREL and FIRST PEN on WHITE LEGHORNS.

Complete winnings are given in my 1916 Mating List and in my new Catalogue. They will help you decide to place your order where you will receive a little more than you pay for.

Utility Qualities of Owens Farms Birds Are Unexcelled

A FEW FINE BREEDING BIRDS FOR SALE TO COMPLETE YOUR MATINGS

To save delay in delivery, place your egg order directly from this advertisement. Send 25% deposit and reserve your shipping date. After my printed matter reaches you, should you wish to change your order you may do so. The BEST CHICKS of the year are hatched from APRIL 20th to JUNE 25th. They grow, thrive and develop into winners.

OWEN FARMS

MAURICE F. DELANO, Proprietor
FRANK H. DAVEY, Superintendent

107 William Street, VINEYARD HAVEN, MASS.

Questions and Answers

Conducted by
Prince T. Woods, M. D.



Hatching Pullet Eggs.

Q. What is the objection to hatching chicks from eggs laid by pullets that were May hatched? I have read so many people advising against using pullet eggs for hatching.
Jacksonville, Fla.

R. S.

A. The objection to using pullets for breeders is that they are not sufficiently matured to give best results in breeding. In continuous breeding from immature—not fully developed—stock there is a tendency for the stock to “run out,”—for size of young and size of eggs to gradually grow smaller. Fully matured adult birds give the best results as breeding stock, but such breeding birds should be sound, healthy, active, vigorous specimens. A well developed, strong, healthy, vigorous pullet will make a much better breeder than an overfat or worn out hen. There is more permanency in value and quality in stock that is bred from mature adult breeding specimens that are in best breeding conditions. Stock that has been forced for egg yield or other purposes makes poor breeding stock in the long run. Yearlings and

two-year-olds, if well kept, make good breeders because they have had time to ripen and reach full maturity. In some varieties the birds are not really adults until they are two years old. “Laying maturity” and “breeding maturity” are not the same. Human beings become capable of reproduction when twelve to fourteen years old, but where marriages occur at such tender years the results are in a downward direction toward degeneration, and it is conceded that double these ages, or older, yields better results in the progeny of the union. In poultry, some of the best breeding hens we ever saw were well kept four-year-olds that had never been permitted to lay heavily and were well “rested” each season.

To Qualify As “Poultry Manager.”

Q. (1) I am a young man 22 years old and am thinking of taking up poultry culture as a career, or profession, at which to earn my living as I would at any other trade or profession. I am not intending to go in for myself but would expect to be able to make a liv-

ing by working for other poultrymen. I base my preference for this calling on my love for poultry and the country, but I have to make a living. Do you think there will always be a demand for poultry managers or experts?

A. (1) There will, in all probability, always be a demand for poultrymen or poultry managers, but it will take you a long time to qualify and obtain sufficient experience to make you worth your board and a fair wage. There are plenty of poultry managers, of sorts, now out of work and looking for jobs; but really good experienced men are not particularly plenty. However, an intelligent and willing young man of your years should be able to fit himself for work that will make a better career than that of poultry manager. It takes something more than a love of poultry and the country to make a good poultry manager.

Q. (2) About what is the salary of a good poultry manager, also of helpers?

A. (2) There are plenty of young men who will work on poultry farms for their board and experience and some will pay their board for the privilege of working on a plant to gain experience. Helpers on poultry farms can be had for board and lodging up to \$20 per month and found. We get excellent farm help, capable of doing work with poultry and all other farm work, including wood chopping, at \$2 per day, and the mail is full of applications every day. Poultry managers can be had for from \$40 a month up to \$75 and \$100 per month, and from the number of them who are seeking work there must be quite a lot of them now unemployed. Of course, first class help, really experienced and qualified to deliver the goods, is not over plentiful and such usually lands a good job and holds on to it.

Q. (3) Could I become a poultry teacher or investigator?

A. (3) Not one worth his salt, until you have had a number of years of really practical experience.

Q. (4) How and where is a good place to start to learn and study poultry culture?

A. (4) On a good sized practical poultry farm, doing the actual everyday work and getting in touch with all phases of it.

IMPERIAL BUFF WYANDOTTES

Five grand pens headed by Chicago and Indianapolis first prize winners. My mating list describing these pens will be sent free upon request.

W. F. SCHULTZ Box 97 Cuyahoga Falls, O.

Eggs from Strong, Healthy, Vigorous Birds Rhode Island Reds—Light Brahmas

Standard Bred, Utility and Fancy combined. Prodigions, early maturing, winter layers. 16 year's experience. Send for circular. You can't do better.
BUENA VISTA FARM Ball Hill NORTHBORO, MASS.

RED CHIEF STRAIN

Single Comb Rhode Island Reds

A strain of Reds that dominates, as made evident by their wonderful win at the World's Fair, San Francisco, Nov., 1915. Here were found birds from North, East, South and West. We entered 11 birds and nine were in the ribbons. This wonderful win epitomizes their virtues. Just think of it, after traveling that distance, they won

1st Cock 1st and 2nd Pullet 7th Hen 3rd Pen

and gold medal for Champion Pullet, all classes competing. In the cock class there were 29 entries, yet we captured first. You heard about the “hot” Red classes at Madison Square Garden, New York, and Boston, 1916; it was the talk of the country. At the “Garden,” New York, we won 5th pen; at Boston, 4th cockerel, 6th hen.

White Plymouth Rocks

At both the “Garden” and Boston, 1916, the competition in this variety was the strongest it has been in years. OUR GARDEN WIN: 2nd Cock; 2nd Pullet; 5th Cockerel; 3rd Pen. OUR BOSTON WIN: 1st Hen; 2nd and 4th Cock; 5th Cockerel; 3rd Pen.

White Wyandottes

No exhibit at the “Garden.” At Boston we won 2nd cockerel, 5th pen. Now, friend reader, here are the “World's Real Shows” showing just what “Mirimichi Quality” accomplished. It is just a repetition of what “generation to generation” since 1909 has been accomplished by our birds.

YOU WANT stock, eggs or chicks that mean money for you. Therefore don't hesitate, but write for a copy of our catalog and mating list. It is free.

MIRIMICHI POULTRY FARM

Breeders of Birds that Win, Lay and Pay.

W. H. Saart

Box 100, Foxboro, Mass.

Q. (5) Do you think I would be wise to specialize on this one thing, or had I better learn something else on which to fall back in case I cannot make a living in the poultry industry?

A. (5) By all means have "an anchor to windward," learn some good useful trade in which you can become expert and at which you can always find work. You are only in the formative stage yet, you haven't found out what you really want to be, or what you are going to be, and the whole world is before you. Learn and study all you can about everything useful that you come in contact with and before long you will "find yourself." You can't "specialize" without a foundation and a certain aptitude for the work; first learn to make yourself generally useful in whatever work comes to hand and make the most of your opportunities. There is time enough to "specialize" after you find out what you are best fitted to do and to do well.

Q. (6) Is the chance for advancement as good in poultry culture as in other lines of work?

A. (6) We don't think so. There are good opportunities for those fitted for agriculture, including poultry culture; but in the trades, arts and professions there are much greater chances for advancement for an earnest, ambitious, intelligent and hard working young man.

Answer to J. B. Y.—Increasing the Flock.

The query of J. B. Y., of Milan, Mich., in the March issue of AMERICAN POULTRY JOURNAL brings up one of the greatest questions that can come to the small commercial poultryman, when the flock is too large for the wife to do the work and not large enough to support the family, so that the husband can give his entire time to it, then how is one to enlarge?

The method that I shall present is one that has been proven out in several cases that I am acquainted with and if the right man is behind the flock it will work again.

Select from the birds on hand, the very best ten females, and from these select as carefully as possible the one best pullet, put just as much time, work, and study into the selection of this one hen as tho she were actually costing you \$500.

The best flocks of fowls we have today were built up by intelligent selection. Get your best pullet, place her in a pen with your best male; those two birds make up your pen one. Place the other nine good females with your second best male, and they make up pen 2.

The chicks you raise from pen one will give you pullets to go into pen three next year, to be mated to their own sire.

The chicks from pen 2 will give you about one hundred pullets for the laying pen next year, and make up your mind that those birds are going to do two years work, and then see that they do it.

Ideal Aluminum



LEG BANDS for POULTRY and PIGEONS are the acknowledged leaders. Firmest and most secure lock. GUARANTEED to stay on. Price, postpaid, 12 for 15c; 25-20c; 50-35c; 100-60c; 175-\$1.00; 200-\$1.10; 500-\$2.50. Price list and sample 2c.

Frank Myers, Mfrs., Box 40, Freeport, Ill.

One Million Day-Old Chicks



shipped in six years and not one dissatisfied customer—that's our record. Thousands of our chicks go to the same old customers year after year. Isn't that proof that our chicks are right? Would people buy them continuously for six years if they were not the very best to be had for the price? Would we receive hundreds of testimonials as to their quality and our superior service if we didn't deliver the goods to their entire satisfaction? Read these few extracts from letters we have received—if you desire names and addresses of these people we will cheerfully supply them. "The chickens I bought of you are busy filling the egg basket." "The eleven pullets I raised from your chicks averaged 145 eggs each last season." "Please send your 1916 prices; the 500 Barred Rocks I bought of you last season did fine." "I had such good success with chicks I received from you last year I did not like to take a chance ordering from any one else." "I got 100 chicks from you last year and had good success." "I am paying you \$100 more for the 4,000 chicks I am ordering from you, but I have had 'Better Hatched' chicks before and know what I will get." "The chicks I bought of you last year are just fine. I got better birds than I did out of \$5.00 and \$10.00 settings of eggs from others." "I have bought S. C. White Leghorn chicks for several years. The last four years I have bought your 'Pay-streak' chicks, they have all the others backed off the map." (This customer bought 3,000 for 1916.) "One of your 'Pay-streak' White Leghorns laid at the age of 116 days." Think of it, less than four months; they get the profit habit early. Another one: "I kept fourteen pullets from the twenty-five White Wyandotte chicks ordered of you last March: one laid her first egg when four months and twenty days old; one at five months and five days, and one at five months and ten days. They laid 206 eggs in November. Money couldn't buy them." This same man sent another in March as follows: "The pullet that laid at 4 months and 27 days is a wonder; on March 8 she laid two eggs in a trapnest." We showed ten White Wyandottes at Shelby, O., in December, 1915, five pullets scored 95½, 95, 95, 95, 94½. Needless to say they got the ribbons, as well as 1st pen, 1st and 3rd cockerel and special for 10 best birds in the show. Don't you really think such stock would be worth the prices we ask? We are now in the height of the season and would advise direct orders at the prices we quote below. If our shipping date does not suit you, money will be cheerfully returned. These prices are for our Select quality. Prices on the Exhibition grade will be mailed on request. We guarantee the value on either grade the best in the country, as reported by Government Day-old Chick investigators.

	25 Chicks	50 Chicks	100 Chicks	500 Chicks
S. C. White Leghorns.....	\$3.50	\$6.50	\$12.00	\$55.00
S. C. Brown Leghorns.....	3.50	6.50	12.00	55.00
S. C. Buff Leghorns.....	3.50	6.50	12.00	55.00
Barred Plymouth Rocks.....	3.50	6.50	12.00	55.00
White Plymouth Rocks.....	4.00	7.50	14.00	65.00
S. C. R. I. Reds.....	4.00	7.50	14.00	65.00
R. C. R. I. Reds.....	4.00	7.50	14.00	65.00
White Wyandottes.....	5.00	8.50	16.00	75.00
S. C. Black Minorcas.....	5.00	8.50	16.00	75.00
S. C. White Orpingtons.....	5.00	8.50	16.00	75.00
S. C. Buff Orpingtons.....	5.00	8.50	16.00	75.00

THESE PRICES FOR APRIL AND MAY.

Send certified check, money order or draft. If chicks are ordered more than a month in advance of shipment, we require but one-fourth of amount as deposit with order. All chicks shipped from Tiro by Adams Express. Safe delivery up to 1,500 miles guaranteed. We ship each Tuesday. Orders filled in rotation as received, or as near to the date you specify as possible.

The Co-Operative Breeding & Hatching Co. Box A Tiro, Ohio

THE F. & H. BLUE PLYMOUTH ROCKS

"The Fowl for Everybody"

A FEW SELECTED BREEDERS FOR SALE
EGGS FOR HATCHING

F. G. HASSELMAN,

U. R. FISHEL,

Central Ave. and 34th St., INDIANAPOLIS, IND.

HOPE, INDIANA

Payne Bros.' R. C. R. I. Reds

Blue Ribbon Winners at New York and Boston

On six exhibits of breeding pens at Madison Square Garden and Boston, we won five Firsts and a Third. This record has never been equaled. Eggs from our championship matings \$5, \$10 and \$15 per setting. Grand utility matings \$10 per 100.

Catalog Free.

Farm Raised Stock.

PAYNE BROS.

Box J

PORTLAND, CONN.

Deming's Single Comb Rhode Island Reds

Again they win at Madison Square Garden: this makes three years that our birds have shown their "class" at the Garden Show. Don't fail to look up their records at the egg laying contests. If looking for stock or eggs that will produce winners and layers for you, write me.

H. P. DEMING, Winsted, Conn.

LINE BRED White Wyandottes

You new man in the poultry world! Are you going to take up breeding this year? Do you appreciate what the most important thing is you must consider? It is to get line bred stock. You older breeders! Have you had a hard time getting started in real quality? Do you know what was probably wrong? The purchase of stock not line bred, either "hit or miss" or picked up outside somewhere to fill your order with. You old breeder, have things gone wrong with your matings this past season? You possibly introduced a bird that did not have a "history," or you have bred too close without system. Now then! You all need the introduction of **line bred stock** to help you to complete success. I can furnish it and can furnish nothing else. **Three firsts** on young stock at last Madison Square Garden Show, 1st collection and many other prizes. This tells the quality of my birds and the results obtainable—only possible from line bred stock. Catalog and mating list.

Arthur G. Duston Box Framingham, Mass.

PARKS WHITE LEGHORNS.

REFRIG. MUMBY BARON BARRY BARTHOLOMEW
STRAIN STRAIN STRAIN STRAIN STRAIN
AUSTRALIA NEW ZEALAND ENGLAND CROSSED AMERICA

OREGON EXPERIMENTAL STATION STRAIN

SINGLE COMB WHITE LEGHORNS ONLY

The World's Official World Record Laying Strains—**America, England, Australia and New Zealand.** Egg and Chick Circular, 25 Laying Contest Reports and the most practical catalog written. Free. **No more stock until after May 15th.** Then in limited numbers only at reduced prices.

J. R. Parks, Box P, Altoona, Pa.

F ANY INCUBATOR except the mammoth and stops high heat. The automatic Heat-Check clamps to any incubator without scratch or mar! Perfect insurance against sudden changes of temperature in the egg chamber, \$1.00 each. Fully guaranteed. Order from this ad or send for circular at once and learn how you can save many times its price, and save your best chicks from your best eggs. You lose if you delay. Universal Heat-Check, Dept. 65, Buffalo, N. Y.

S. C. Dominique Leghorns

A scientific combination of America's best laying strains. They were awarded first prize at fourth Missouri Laying Contest, Mountain Grove, 1914-15. Winner of every first prize at Kansas City Poultry Show, January, 1916. Eggs only. Circular free.

A. KURTZ - 628 Park Ave. - Kansas City, Mo.

Grant's White Rocks Win

AT GREAT CHICAGO JANUARY SHOW, 1916, 1st cock bird (one entered), was one of the real sensations of the show. Eggs \$5.00 and \$2.50. A few nice females, \$2.50. Place your orders early. Satisfaction guaranteed.

JOHN GRANT, - Richmond, Illinois

**ADJUSTABLE CLINCH POULTRY BANDS**

None better made. 25-20c, 50-35c, 100-65c, 200, \$1.00, 500, \$2.25.

Made by

FRANK CROSS Box 506 MONTAGUE, MASS.

Andrews' Bl'k Orpingtons

Winners at Brooklyn and the Grand Central Palace, New York. I can furnish you with birds that win. Order eggs for hatching early! Prices reasonable. Silas H. Andrews, 208 2d St., Mineola, N.Y.

S.C.B. Minorcas

that have size and quality. Winning three successive years at Quincy show. Eggs for hatching; write for prices. Grover Degee, 814 Jefferson St. Quincy, Ill.

SILVER LACED WYANDOTTES

STOCK and EGGS.

EWING & ROMICH Lock Box 393 CRESTON, O.

Mention American Poultry Journal when writing to advertisers.

The second year you will have the same old hen in pen 1, and her one best daughter, and her best son, select these birds as tho your entire future depended on your getting the best one, make the selection solely on Standard points, and vitality, as shown by activity, strength, and size of the fowls. Get the best one.

The chicks from pen one will now give you pullets for pens 2, 3 and 4, and the chicks from pens 2 and 3 will go into the laying pens, this will provide for a normal degree of increase each year and at a rate that is not too rapid to make it impossible of maintaining.

By holding your breeding stock down, and forcing them to rest, never allowing them to lay more than 40 eggs per bird per year, you will find that they are doing the resting for the entire flock, and their daughters will be able to give you two good years of profitable work.

This will leave you 190 layers this year, and give you about 280 for next year, and if you sell off one-half of the poorest birds at two years and carry the others over till the third year, you will find that you have about 380 layers, and the fourth year you will have about 730.

Hens are capable of doing profitable work for three years, and will earn a greater net profit, by doing that than they will if forced to lay 365 eggs the first year of their lives, and you will find that many will not stand up to the high pressure work, but if the breeding stock be handled as indicated, you will find that a larger percentage of your fowls will lay 200 eggs or more, than will be the case if you trapnest and breed from your high producers.

Certainly following a sane system of breeding you will not be reporting so many fictitious accounts of high production and endeavoring to connect with what the fool is said to part with readily, but you will be earning a decent, respectable living, and earning it honestly, while your flock is increasing in numbers and vitality at such an easy rate that you will hardly know where your success has come from.

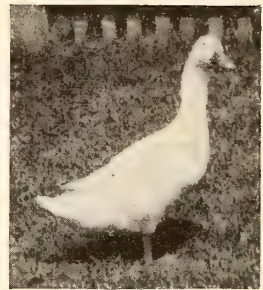
I have a friend who has started five times, and each time with a different breed, and each time with a known strain of 200-egg producers, five times he has succeeded in raising a hen that laid from 200 to 220 eggs in a year, and four times he has been compelled to abandon his project, on account of what he calls low fertility, but what may better be described as *no vitality*, and is due to exhaustion of the hen in making her high record; the result of his fifth attempt cannot be known before the present hatching season ends, but it will not be hard to guess from the fact that he paid \$1 each for eggs and one of his hens has laid 224 eggs for the twelve months ending December 1, 1915.

Just what breed he will try next is hard to surmise, but it is certain that he is not yet in the poultry business, and he has been at it for five years, while if he had followed the outline I have presented his flock would now be large enough to support the family, and yet would never have gone beyond the limits of the ability of the wife to handle, until it was able to compensate the husband for all his time and attention.

The success of such a system depends on the proper selection of the foundation stock, and will be handled without the expense of incubators and brooders until such a time as the size of the flock would make the machines an economy. One does not have to raise a complete

MOHAWK POULTRY FARM

Where Moore's White Langshans are willing to share the farm with White Indian Runner Ducks.



Eggs from flocks of utility birds at \$1.00 per 15, or \$5.00 per 100; \$2.00 per 15, or \$10.00 per 100. From Pen of Fancy Stock, \$5.00 per 15. Eggs from White Indian Runner Ducks, \$1.00 per 12.

R. H. Moore, R.F.D. 1, Nellie, Ohio

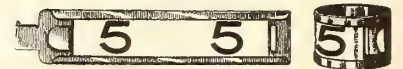
EAKIN'S White Wyandottes

WIN VICTORY

At Great Chicago Coliseum Show. Our breeding pens are made up of these winners and others of equal merit. Eggs \$5.00 per setting.

WRITE FOR MATING LIST.

F. M. EAKIN, Bucyrus, Ohio
BOX A

Poultry Band Free

Patented September 1st, 1914

Send for a free leg band for that prize bird of yours. We will also give you a circular of the Bourne big numbered poultry band, having large numbers easily read from a distance. Especially recommended for trapnested hens. State size wanted, Bantams, Leghorns, Rocks. Male or female. Band is made with black numbers from 1 to 300 on red, white, yellow, pink, cerise, green and light blue celluloid. Will stand weather and water. Price 3c each, \$2.50 a hundred. Send cash with order.

Bourne Mfg. Co., 231 Howard St., Melrose, Mass.

JACOBUS CAMPINES

GOLDEN & SILVER.



At each of last two Madison Square shows I won more firsts than all my competitors combined: 1915, 71sts; 1916, 6 1sts—13 out of a possible 20. Am. Campine Club show, Chi. Coliseum (1915) my Silvers won 1st, 5th cocks; 1st, 2nd hens; 2nd pullet; 1st young pen. Specials: best pen, best colored male, best shaped

male and female. Out of ten entries Golden won nine regular premiums.

Let me start you right as I have others; send for handsome book.

M. R. JACOBUS Box 3-J RIDGEFIELD, N. J.

ATLAS RINGLET

COLORS LEG BANDS



Made in ten colors. Adult sizes: 12-15c, 25-30c, 50-50c, 100-75c, postpaid. Write for prices in larger quantities.

THE ATLAS COMPANY, - Lincoln, N. J.

WHITE ORPINGTONS

Am. Bred-to-Lay : National Champions
Big Catalog and Mating List Free.
WOOLERY FARM, Box Y, BLOOMINGTON, IND.

new flock each year to earn a profit, if one goes at the subject intelligently.

Raising 1,000 chicks to get 400 layers, good, bad, and indifferent, is a deal of work, and may easily become a deal of expense, but if each pullet raised is carried thru two profitable seasons, and half of them are giving returns the third season, the work of raising is so much lighter that the slight difference in income is hardly noticeable.

Fowls retained as breeders and never allowed to lay more than 40 eggs each per year will get better every year till they are six or in some cases eight years old, and by following the outline one will be able to raise a flock of two thousand layers, all descended from one hen, in six years time, and still have her there on the place to see the work of her progeny. That is why I insist on making such a careful selection of the first hen to be placed in the first breeding pen, I intend her to stay there until the entire flock is just like her.

Better have 100 hens earning a small net profit for each bird, than to have 2,000 birds, each one losing a small amount of her year's food, that she is not able to pay for.

The plan I have outlined, may look very slow, but it has the advantage of being very sure to win, it is not making promises of great returns, but with a little time given to work away from home, at first, the flock will pay its way and increase in numbers gradually.

By this plan others have succeeded, and more will succeed. Many a puzzle may be easily solved, by taking it slowly and carefully, when to rush in would only be to make it impossible of solution, and this is one of them; take it slow and easy, make every hen give you two years' service, breed your own layers, in small numbers at first, and grow up with the business.

Herb E. Sharp.

Testing Eggs in Water.

Q. A poultry book by Stephen Beal says that testing eggs on nineteenth day by dipping in water heated to 103 degrees, is a desirable method; because, besides being an accurate way of selecting eggs with chicks from those added or containing dead chicks, the water softens the shell, making the exclusion of the chick easier. Being still a student and unable to make experiment, I would like your opinion whether this method is advisable.

Banang, Union, Manila, P. I. J. M.

A. The method named is practiced by placing eggs in water at 103 degrees and noting whether floating egg moves or is



FIVE SIZES
150 Eggs to
600 Eggs
Capacity.

stead of half inch lumber, as is used in most machines, we use one inch lumber. We use three solid inches of mineral wool packing instead of one-half to one inch. Our heating system is made of 28-gauge double galvanized iron instead of thin, flimsy material. The Schwalge is **screwed**—not nailed—at points where strains come. No paper, cardboard or other similar material is used in any part of the machine. We easily could cheapen our machine without spoiling its appearance, but it would not hatch so well or last for as many years as it does.

Schwalge Sectional Incubators



The Sectional Idea

Schwalge Sectional Incubators are built so that they grow into a mammoth incubator simply by adding sections. You join the second section to the first, the third to the second, and so forth, until you have a mammoth. All sections are heated by one lamp. A patented device maintains uniform heat in all sections. You can start with a Schwalge of 150 eggs, or any of the other sizes, and gradually add until you have a mammoth incubator. This is not possible with any other machine.

Best Built Incubator in the World. Get This Catalog FREE

The very best materials and the highest skilled workmen combine to make this the best built incubator. Together with its numerous exclusive features of importance—more than any other incubator on the market—it is the best hatcher it is possible to build. We use genuine California Redwood, thoroughly dried so that it won't warp. In-

Write Your Name on a Postal

are wonderful hatchers and they last a lifetime. H. C. Nickel of Frederick, Md., said: "I hatched 385 chicks from 400 eggs. Results obtained far above what I got from my other machines, all having eggs from my own stock."

Note these exclusive Schwalge features: 3-pipe radiator has double the heating surface of any other heating system. Original ventilating and moisture systems bring pure, fresh, damp air—full of life-giving oxygen—into the egg chamber. Double Wafer automatic thermostat positively assures even temperature. The Schwalge reduces chicks dying in shell to a minimum. The correct proportion of heat, air and moisture hatches healthy, vigorous chicks that will live and thrive.

Sold on a Trial Guarantee

Select your Schwalge Sectional Incubator from our 1916 catalog, which we'll send free and postpaid if you write for it. Try the machine 40 days, and if it doesn't hatch all the chicks that you think it should, return it and we'll refund all of your money. You are the judge. You must be satisfied. What you say goes. You run no risk buying a Schwalge. For if it doesn't satisfy we refund your money. Send today for our 1916 illustrated catalog.

THE SCHWALGE-SMITH CO., Box 455, Elmhurst, Ill

Columbian Wyandottes

won 1st Cock, 1st Pullet at Greater Chicago Show. Nine Firsts; five Seconds; three Thirds; 1 Fourth and 1 Fifth, including shape and color specials and two cups, between December 1st and January 31st, at the leading Illinois and Wisconsin shows. Four mated pens with prices to suit your purse. Mention American Poultry Journal.

JOS. HAUKE, Prop. Palmer Poultry Yard

Palmer Place

WAUKEGAN, ILL.

"AMERICA'S BEST" LIGHT BRAHMAS

again win at Madison Square Garden, New York, 1916, 1-2-4 Cocks; 1-3-4 Hens; 1-3-4 Cockerels; 1-2-3 Pullets; 1 pen and all specials. For many years we have been consistent winners at the "Garden"—this is but a repetition of former years. While they last, 30 A-number one Cockerels at prices that are right. Eggs from six grand matings.

BALCH & BROWN, MANCHESTER, CONN.

URBAN FARMS

Pine Ridge, Buffalo, New York

Stock and eggs for sale from our prize winning strains. White Rocks, Black Langhans, Anconas. Eggs only from Black-Tailed White Japanese Bantams, Millie Fours, Silkies, and Tom Barron's best strain White Leghorns and White Wyandottes. Mailing list now ready.

ROSE AND SINGLE COMB WHITE MINORCAS, GOLDEN CAMPINES

America's best. Again Champions at Chicago Coliseum. Exhibition and grand breeders for sale.

THOS. BROGDEN, Specialty Breeder

Box C

RUSH LAKE, WISCONSIN

Prevent Stampeding In The Brooder House—The One Danger Of Brooding In Large Flocks—

Stampeding and crowding at feeding time is completely eliminated by the use of the Norwich Automatic Exerciser and Feeder as the chicks are fed a little at a time and all the time, while the Norwich Automatic Air-Lock Fountain with Cup Guard prevents drowning, supplies an abundance of absolutely fresh clean water, and the constant care, worry and labor of feeding and watering are all reduced to a purely automatic action.

RESULTS—PEACE, QUIET AND COMFORT

insuring rapid and perfect development and the best and strongest chicks you ever raised, for they must work and exercise for a living just as Nature intended they should. Expert poultrymen know there is nothing that will develop chicks as perfectly or as rapidly as the Norwich Feeder.

Try this method on our guarantee of satisfaction and save the little fellows you are sure to lose where stampeding and crowding is the rule every two hours when hand-fed.

Tell us how many chicks you are going to brood to a flock, and we will tell you exactly how to put the house on an automatic basis that will prevent loss, reduce labor and produce results.

THE NORWICH AUTOMATIC FEEDER CO.

21 Trumbull Street

New London, Conn., U. S. A.

Norwich Air-Lock Fountain



Norwich Automatic Feeder
Four Sizes





Day Old Chicks

—AND—
Ducklings

We furnish Pure Bred Chicks and of the finest Quality. We only ship big, strong, healthy Baby Chicks that LIVE, hatched from healthy, vigorous stock. Some 15 varieties of poultry, raised on different farms. Our White and Fawn and White Indian Runner Ducklings are of the best Egg-producing strains. We also do custom hatching. Write for our big Free Illustrated Catalog at once, as this ad may not appear again. Address

J. W. OSSEGE HATCHERY, Dept. 6 Glandorf, O.

S. C. WHITE LEGHORNS

Eggs for hatching, baby chicks, utility and exhibition stock for sale. We run a large commercial plant for our utility birds, and won at the Illinois State Fair, Chicago Coliseum Show and the Chicago Dexter Park Pavilion Show with our exhibition stock. Send for our free mating list.

MEADOW LARK FARM, J. W. TAFT, Prop. Route 5, ELGIN, ILL.

McCONNELL'S S. and R. C. REDS

EGGS FOR HATCHING at \$3.50 per 15.

Most breeders charge \$5.00 to \$10.00 for same quality. Extra good in type and headpoints. Send your order today.

W. A. McCONNELL : : RICHMOND, ILL.

Taylor's White Wyandottes

Send to us for your eggs and baby chicks. Mating list free. Embden Geese eggs. Please mention American Poultry Journal.

GEO. TAYLOR Route 11, Box 30 URBANA, ILL.

DAVIS' S. C. Rhode Island Reds

Have proven their quality by winning at the last Chicago Show, FIRST PULLET, Fifth Cockerel and Fifth Cock. Eggs from the best of blood lines, \$5.00 for fifteen. Write today for mating list.

M. C. DAVIS Haywood Road Woodstock, Ill.

Sterling Strain Rhode Island Reds

COCKERELS that will WIN and BREED winners. Sired by our Illinois State Show, Peoria and Cedar Rapids Blue Ribbon Winners. Fifty extra choice birds for sale. Also choice Cocks. Prices right. From heavy layers.

BABY CHICKS! :: We ship only strong chicks and fertile eggs that hatch. :: EGGS, EGGS!

STERLING POULTRY FARM Box A STERLING, ILLINOIS

Ward's Champion Buff Ply Rocks

I still have a few choice cockerels at \$10.00 each. Some fine pullets and young hens at \$5 each. Eggs from choice matings at \$3.00 and \$5.00 per 15. \$18.00 per 100. Everything I sell I guarantee to please you, or return money. I have been raising buff rocks for seventeen years. You take no chances in buying from me. I am in the business to stay.

THE BUFF ROCK MAN R. W. WARD, Normal, Illinois

Buttercup Eggs from Winners

of the Blue at MADISON SQUARE GARDEN, 1916. Also a few others not actual winner. Write for prices. No day-old chicks. No stock at present.

D. J. WHITE, 1222 Patton St., Wilksburg, Pa.

DOUBLE YOUR EGG PROFIT

Make a profit on every egg—don't let a single one spoil. Get "strictly-fresh-egg" prices for every egg—real profit.

Eggs treated with Morning Glory keep absolutely fresh—for months. Look fresh too—no disfiguration.

MORNING GLORY EGGKEEPER

Keeps fresh every egg that you get.

Think what this means:—You treat your eggs when laid—keep them and sell them all at once—at your convenience—when egg prices are high. Figure for yourself the increased profit. \$1 can treat 2,000 eggs. Guaranteed or your money back. Send 10c for booklet and sample—treats 50 eggs. Write today.

EGG PRESERVATIVE CO., 2000 Broadway, New York

still; failure to move being presumed to show that egg contents are dead. While more or less successful, we do not consider the test practical. We also doubt its value in assisting in successful exclusion. The most that can be said for the method is that it probably does no harm, if the water is maintained at proper temperature and the eggs are not chilled. A more satisfactory method of applying moisture at this period of incubation is to dampen a cloth in water at about 104 degrees and spread this over eggs in the machine on 19th day and allow it to remain several hours or until eggs begin to pip. Some incubator operators moisten the eggs with a brush wet in warm water.

Hens Have Swollen Legs.

Q. Have four hens that have badly swollen legs. Started on one at first, grew worse until they are twice as big as normal. Hens seem feverish, appetite good, comb fine, seem all right enough in every other way, but are not so active in their movements. **A. D.**

A. May be caused by tight leg bands or may be due to injury. Sometimes due to frostbite and also to inflammation of veins. Some cases are tubercular. Would remove any leg bands. Examine the birds for broken bones. Put affected birds in a sling to keep them off their feet; rub legs with oil of cajuput; keep them under observation until you can determine more definitely the exact nature of the trouble.

Bred-to-Lay Brown Leghorns.

Q. Can you recommend some breeder of S. C. Brown Leghorns that are bred to lay, free range stock, somewhere near this part of state, from whom I could buy eggs or baby chicks or both? **Alma, Illinois.** **A. D. Nichols.**

A. Consult advertising columns. We are not sufficiently informed concerning the plants or methods of all advertisers, but possibly publication of this letter may bring you desired information.

Brown and White Eggs in Same Incubator.

Q. Do you think it detrimental to the hatch to incubate brown and white shelled eggs in incubator at same time? **Ohio.** **Subscriber.**

A. For last two seasons we have incubated both brown and white eggs at same time in same incubator and have not noted any poor results. Last year we ran a hatch with eggs from White Leghorns, White Plymouth Rocks, White Wyandottes, Buff Wyandottes, Barred Plymouth Rocks, Rhode Island Reds, Cornish and White Faverolles, all in same machine and hatch was good in all varieties. All these eggs were pretty much the same size and shells equally strong. Would not expect small, thin-shelled, white eggs to do well in same tray with thicker shelled, large, brown eggs.

Animal Food.

Q. Do you consider animal food absolutely essential for good egg production in winter? **Ohio.** **Reader.**

A. We do, and at all seasons of year

Spray White Wash **Kant-Klog Sprayer**
for disinfecting and white washing poultry houses—spraying vines, vegetables, etc. Write for catalog. Agents wanted.
Rochester Spray Pump Co.
210 Broadway Rochester, N.Y.

Hatches Good Chicks

BARKER SAYS!

In Coldest Months

"I am very much pleased with 4800 Candee. It certainly does hatch good chickens. I took off 1033 chicks Dec. 25, 1915, and I have lost but 33 to date. I next took off 1444 and have lost 123 to date, they being hatched Jan. 25, 1916. I don't expect to lose any more from the way they look now. The Candee is the candy."

ALTON E. BARKER.

Tiverton, R. I., Feb. 13, 1916.

CANDEE Incubator

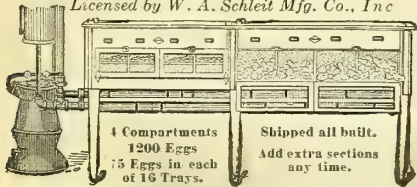
Such records are made possible by these five exclusive features:

- 1—Exact Even Temperature All the Time.
- 2—Economy of Labor and Attention.
- 3—Sectional Construction and Operation.
- 4—Increasing Capacity Without Loss on Investment.
- 5—Inexperienced Persons Can Install and Operate.

Write today for Big Illustrated Catalog which shows many plants and gives many valuable experiences.

CANDEE INCUBATOR & BROODER CO.
Department 2 Eastwood, New York

Licensed by W. A. Schleit Mfg. Co., Inc



"Trap-Nest" 200 EGG



Baby Chicks

and Eggs for Hatching

Barred, Buff, White Rocks, Reds, Wyandottes, Orpingtons, Leghorns. Record, 200 to 249 eggs a year; best in quality; hardest Vermont raised. Write for new chick circular. Males and females for sale.

Sunnyside Poultry Farm Box 1002 Bristol, Vt.

White Indian Runner DUCKS

The Sensation of the water fowl department of the Madison Square Garden show. Their style and carriage is perfection. Here they won cock 1-3, hen 1-2, cockerel 1-2, pullet 1-2. All specials. Write us your wants. Satisfaction assured—none better—

Winning Wherever Shown.

E. G. CURTIS Box A ATSON, N. J.

White Cornish

MOUNTVILLE FARMS. - MOUNTVILLE, VA.

(See classified ad on another page)

would supply animal food, unless the supply of insect life on range is unusually good. We use good quality fish or beef scrap the year round.

Contamination.

Q. I have Buff and White Leghorns, males and females, all running together thru the winter. If separated for four weeks before using the eggs for hatching, will chickens come pure white and pure buff stock or will there be a mixture?

Nova, Ohio.

C. W. S.

A. If you mate up your White and Buff pens carefully and do not use eggs until four weeks after such mating there will be little danger of contamination. However, some hens when mated at the beginning of period of laying carry the fertilization of that mate for a longer period than others, so that there is the possibility that some hen which mated with male of other variety may throw chicks of his get for the full period of her first lay, which might be longer than four weeks. Such cases are the exception rather than the rule.

No Droppings Boards.

Q. How do you handle droppings when no droppings boards are used?

Conn.

S.

A. Dry earth or other absorbent is used under roosts. Droppings cleaned out about four times a year.

Bolted Windows.

Q. How are windows opened when bolted on?

Middletown, Conn.

M. C.

A. Such windows are not opened until spring. In spring these windows are taken off when first settled warm weather starts and remain off until frost comes in fall; wire being used over openings. In monitor top windows, same are now made hinged at top to open out and are held open by iron rods.

Zenith or Chimneyless Burners.

Q. Where can the "Zenith" or chimneyless burners for brooder lamps, mentioned in brooder article, be obtained? Our local dealer does not know about them.

Michigan.

R. W.

A. The burners are manufactured in Connecticut, but at this writing we are unable to locate manufacturer's address. You can obtain such burners of E. F. Hodgson Co., 116 Washington St., Boston, Mass.

How Many Eggs Did She Lay?

Q. Rhode Island Red pullet hatched April 4, 1914, and laid first egg October 8, 1914, at age of 6 months and 4 days.

On account of limited room I was compelled to put her in a pen with laying hens and consequently she had to fight for everything she had to eat and I know that at night her crop was not more than half full.

She laid 16 eggs in October and 25 eggs in November. After that I lost track of the number, but I do know she was laying again the next November in her yearling year.

Now, from this data, how many eggs, in your opinion, did this bird lay during her first year? She hatched out and raised a bunch of chicks last spring. I believe I once read that a pullet that would average 20 eggs or over her first

Your Success

MEANS Eggs and Baby Chicks from profitable layers. It is a serious matter when eggs are selling for 32c to 55c a dozen and your hens are not laying. Ask the breeder who failed, he'll tell you. Our trap-nested

Single Comb

Rhode Island REDS

are Bred-to-Lay in winter and they do it.

On March 3rd we took off a hatch of over 65% from a batch of 2,000 eggs. Our eggs are testing over 92% fertile.

When buying from us you are buying from a farm conceded to be one of the best in the state. Our birds are farm raised, strong and vigorous. Noted for their rich, red color and ideal type. Order today; you'll find it will pay.

BABY CHICKS

April delivery - \$20 per 100

May delivery - \$18 per 100

HATCHING EGGS

April delivery - \$7 per 100

May delivery - \$5 per 100

No discount in lots of less than 300.

SYCAMORE FARM

E. P. USHER, JR., Manager

Our Layers are Your Payers

Box 7, Grafton, Mass.

Big Cash Profits

Every Week on Chicks. Write me for details showing how beginners with Belle City outfits make \$10 to \$25 a week on day-old chicks. Get the facts! Any man, woman, boy or girl can do it by following my plan and using my



Shipped from Buffalo, Kansas
City, Minneapolis or Racine

25 TIMES

World's Champion Belle City



Incubators and Brooders

"In 25 World's Greatest Matches
Belle City Won With Perfect Hatches"
402,000 in use. Get the whole
wonderful story told by the champion-
ship winners themselves in my big
Free Book, "Hatching Facts"

On Practical Chicken Raising
With book comes full description and illustration of
my incubator and brooder in actual colors—the kind
used by U. S. Government and leading Agricultural
Colleges—that won the "Tycoos" Cup—that will win
big success and cash profits for you—

My 10-Year Money-Back Guaranty—My Low Prices

—same as last year. **Freight prepaid.** My
1-2-3 months' Home Test—all facts, proofs, particulars
—200 photographs of prize winning hatches—also my
\$1300 Gold Offers

Conditions so easy anyone may receive biggest pay.
Biggest chance anyone ever had to make extra money
with a hatching outfit.

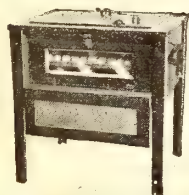
Learn how I paid one Belle City user \$156.25, another
\$30, many from \$45 down. Everything comes with
free book. Write me today. Jim Rohan, Pres.
Belle City Incubator Co., Box 27, Racine, Wis.

Columbian Wyandottes

Winners of five first and two second prizes
on seven entries the past two seasons, in-
cluding **first pen at Boston show, Janu-
ary, 1916.** Eggs from two best pens, \$5.00;
four other high-class pens at \$3.00 per set-
ting. Stock for sale. Satisfaction guaranteed.

PLACE YOUR ORDERS EARLY

GILBERT POULTRY FARM
Whittier Road Haverhill, Mass.



Convert Your Lamp-Heated
Incubator to **ELECTRIC** Heat
Eliminate all oil, smoke,
danger. We furnish all
electrical heating units,
automatic regulator, and
complete instructions for
installing. Anyone handy
with tools can do it.

Send for Prices.
ELECTRIC SPECIALTY CO.
28 Richards St., Salt Lake City



**RELIABLE
POULTRY JOURNAL**
3 MONTHS' Trial Sub. 10c

Tells How to Succeed with Poultry.
1 year, 50 cents; 3 years, \$1.00

Reliable Poultry Journal Pub. Co., Dept. E-16, Quincy, Ill.

Orchard Farm Reds

Before buying R. I. Red eggs for hatching,
write for our mating list.

Orchard Farm, Noroton Heights, Conn.
Sherman's S. C. Reds
Quality

Eggs for hatching, \$2.00, \$3.00 and \$5.00 per 15.
C. A. SHERMAN Dept. A, FREEPORT, ILL.

laying month would, no doubt, lay 200
eggs or over her first laying year.

I intend to mate her up this spring
with a young cockerel and try to raise
some males from her to breed to my
flock another year.

Sheldon, Ia. B. B.

A. Better put your question to Prof.
James Rice, Cornell Poultry Department,
Ithaca, N. Y. He appears to be the chief
exponent of the "early and late" method
of determining egg yield. We would
not attempt to guess the pullet's first
year egg record.

Analyses Wanted.

Q. (1) What is the content of the
following grains: corn, oats, barley,
wheat, wheat middlings, kaffir corn, bran,
cottonseed meal, alfalfa?

A. (1) Average composition:

Feed	Water	Ash	Protein	Fibre	Nitrogen—free Extract	Fat
Corn	10.6	1.5	10.3	2.2	70.4	5.0
Wheat	10.5	1.8	11.9	1.8	71.9	2.1
Wheat bran	11.9	5.8	15.4	9.0	53.9	4.0
Wheat middlings	12.1	3.3	15.6	4.6	60.4	4.0
Barley	10.9	2.4	12.4	2.7	69.8	1.8
Oats	11.0	3.0	11.8	9.5	59.7	5.0
Kaffir	9.3	1.5	9.9	1.4	74.9	3.0
Cottonseed meal	8.2	7.2	42.3	5.6	23.6	13.1
Alfalfa	8.4	7.4	14.3	25.0	42.7	2.2

Q. (2) What would you consider a
good ration for a Leghorn for laying
and thru molt?

Elgin, Ill. B. F. G.

A. (2) In first place, we should for-
get about analysis tables and not en-
deavor to arrange a scientifically bal-
anced ration by chemical content. Sup-
ply a dry mash made of 100 lbs. each:

bran, middlings, corn meal, ground oats
and gluten feed; 50 lbs. each: alfalfa,
best beef scrap and best fish scrap. Sup-
ply a scratch grain of equal parts by
measure of cracked corn, wheat, oats
and barley. Vary this scratch grain ac-
cording to appetite and give most of
whatever the birds show preference for.
Supply greens liberally. At moulting
time get into a shady grove and supply
an abundance of greens, particularly
cabbage and garden greens. Give a
small amount of sunflower seed, feed
mostly on hard grains and allow dry
mash hoppers open in afternoon only.

Starting an Egg Farm.

Q. Do you advise starting an egg
farm with Leghorns near Chicago or
near New York City? Which would be
more profitable considering the high

prices of grain in or near New York?
Kankakee, Ill. J. S. L.

A. We can't recommend a location
for you. There are desirable oppor-
tunities near either city and near almost
any large city. The difference in price
of grain would be offset by similar but
wider difference in the price obtained
for eggs.



First prize White Wyandotte hen, the Chicago Coliseum Show, De-
cember, 1915. Bred and owned by L. J. Demberger, Box 89, Stewarts-
ville, Ind.



EGGS and BABY CHICKS

From FOGG'S S. C. WHITE LEGHORNS

will produce you profitable layers and birds of high quality.

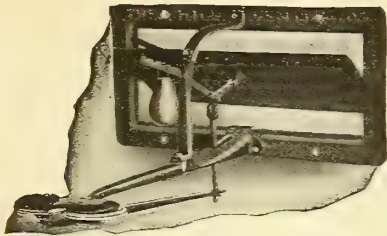
Safe delivery of chicks and eggs guaranteed.

Eggs guaranteed 90 per cent fertile. Send for mating list today.

N. V. FOGG - Box R - Mt. Sterling, Ky.

See ad p. 655 of "A Revolution in Egg Production"

The Hill Ventilator For Colony Houses - \$5



Solves the problem of the houses becoming too warm in the middle of the day and the chicks crowding in the corners at night. The Hill Ventilator works automatically—always opens and shuts at the right time—needs no attention. With plenty of fresh air in the house you can raise more chicks, stronger chicks and make a better profit.

Send for descriptive circular telling all about the invention.

The United Brooder Co., Trenton, N. J.



PAGEL'S Poultry Supplies

SANITARY Non-Freezing Fountains

No lamps No valves
Non-clog Feed Hoppers, etc

If not at your dealer's, write for circulars.

Manufactured exclusively by
F. Pagel, B123, Rockford, Ill.



ATHERTON'S FAMOUS SILKIES

The REAL Birds

EGGS \$6.00 per setting; two settings, \$10.00.
Single Birds, \$5.00 to \$25.00

W. B. ATHERTON
Randolph - Massachusetts

Sex Control SPOK AHNE STRAIN

Black Langshans, 15 eggs \$25. Eight chicks or replace free. Six pullets or exchange even. Pullets give you 70% females, or we replace free. Your money's worth—they make good or we do.

HERB. E. SHARP LAN SHAN FARMS
R. F. D. No. 3, SPOKANE, WASH.

COLUMBIAN WYANDOTTES
Hatching Eggs—Special mating, \$10.00 per 15; five yards, \$5.00 per 15, \$9.00 per 30. Write wants. Address
Ralph Woodward, Box 200, Grafton, Mass.
Pres. National Columbian Wyandotte Club.

R. I. Reds that will please you as well as the judges. My free circular tells all about them.

EGGS for HATCHING P. H. Sprague Maywood, Ill.

S. C. White Leghorns

Heavy winners at Akron, Cuyahoga Falls and Canton. Write us for prices on stock and eggs.

P. J. FERRIS - Box A - Cuyahoga Falls, Ohio



The "BEST YET" Aluminum Leg Band Cannot come off, comes bent ready to apply. 5 sizes, pigeon to turkey. State breed. 12.15c; 25.20c; 50.35c; 100.60c. No stamps. Also colored leg bands and seamless pigeon bands. Circular free. Aluminum Marker Works, Dept. J, Beaver Falls, Pa.

Williams' Buttermilk

Bred to win. Free range, superior birds mated to produce best results in standard requirements. Cockers, Trio and Pens. Prices reasonable.

WILLIAMS' BIRD FARM, BEEA, OHIO

Use **HANDYSIDE'S DIARRHEA and CHOLERA CURE** It's nature's own remedy. It has been tested on over 200 bad cases, and has yet to fail to cure. Large box, to cure 80 bad cases, \$1.00; small box, 50c; sample free. A satisfactory cure guaranteed.

J. R. HANDYSIDE Litchfield, Ohio

NEW REPRESENTATIVE IN THE EAST.

DESIRING to be of the greatest possible service to our patrons in the Eastern part of the United States, particularly in the New England and the Middle and Southern Atlantic States, we have decided to have one of our Chicago office staff become a resident near New York and Philadelphia to look after the interests of our advertisers.

P. K. White, who has for several years been associated with our Chicago office, handling correspondence and advertising, and who edited our 1915 Year Book, was introduced at the big New York and Boston Shows this season and has been selected to do this work. He is now making an extended trip among the Eastern poultry farms in the interests of this journal.

It is Mr. White's purpose to render advertising service to our patrons; he has had a wide experience in the advertising field and is well versed in the preparation of good copy for pulling advertisements. Consult him as to space and the wording of your ads. He is sent to give you real and efficient service, to consult with you concerning an advertising campaign that will pull and pay. He will not try to sell you space you do not need or to "load you up" with an advertising incumbrance. **AMERICAN POULTRY JOURNAL** has advertising space to sell at an honest valuation, we believe it is worth all and more than we ask for it, we want you to take what you need to get results.—no more,—and we expect to give you good service and to "deliver the goods." Consult our Mr. White concerning our advertising service and about all matters in regard to your advertising campaign. He is now making up his itinerary for the Eastern territory this spring. Write to him at 197 High St., Hartford, Conn., and ask him to call at your plant to demonstrate our advertising service.

ARTHUR A. PETERS.

ARTHUR A. PETERS, of Denver, Colorado, has served the American Poultry Association well and faithfully as Vice-President since 1913.

As a presiding officer he is always fair and courteous to all in his decisions. He has been worked harder as a presiding officer than any other man who has served the association in a like capacity and he has made friends for the association wherever he has been since coming into office.

The verdict of those in attendance at the last three annual meetings of the association is one of unstinted praise for the dignity and fairness of Mr. Peters' presiding. The American Poultry Association cannot do better than show their appreciation of his worth by again electing him as their vice-president. Mr. Peters is deserving of the highest honors and should not find it difficult of election to any office in the association.

On the official ballot now in the hands of members, he is slated as a candidate for the vice-presidency. No man in the association is more worthy of your support. Vote for him.

GOLDEN WYANDOTTES

No eggs or baby chicks. Winners at World's Fair, 1915. Will sell choice breeding females at 2 for \$5.00. A few fine male birds for sale.

J. S. Pennington Box A Plainfield, Ill.

TANTALIZER

FIRST COCKEREL---Champion, Boston (1916)---BARRED ROCKS

He is a great grandson of my Boston King, 1st Cockerel Boston (1913), one of the greatest sires in the world.



Just consider—this cockerel class was composed of 43 birds, representing 20 of the leading breeders of the East. On my total of eight entries I won 1-3 cockerel, 4 pullet, color special, 3rd cockerel bred hen, 3rd cockerel bred pullet, 4th cockerel bred pen. Bear in mind that my birds have been consistent winners at the Eastern shows for the past 6 years. Not the largest breeder in the country, but what birds I have rank with any of them. A postal will bring my mating list. My prices will suit you.

W. W. CARPENTER
A Name That Means GOOD BARRED ROCKS
EAST PROVIDENCE, R. I.

Splendid Opportunity

To secure an established and desirable poultry and fruit farm. Profits have increased every year. Modern improvements. Close to large city. \$10,000 cash required to obtain possession. Balance in payments. Net profits last year, over \$5,000. For particulars address Poultry Plant Sale,

American Poultry Journal,
542 S. Dearborn St., - Chicago, Ill.


Poultry Bands

Pigeon Bands—Nest Tags

All goods guaranteed to be just as represented.

ALUMINUM BANDS with raised figures, price postpaid, 12-15c, 25-20c, 50-30c, 100-50c.

SPIRAL CELLULOID BANDS, 10 different colors; price postpaid, 12-15c, 25-25c, 50-40c, 100-65c.



COLORS CELLULOID, with Aluminum Back. Any color. Two large black numbers in each band; price 12-30c, 25-50c, 50-80c; 100, \$1.50.

The National Poultry Band Co.

Send for Catalog. **Newport, Ky.**

\$3.00 Buys This COOP and RUN

Practical, durable, easy to clean. Run detachable. Use this coop and get away from the all-metal coops.



SANITARY CHICKEN COOP

Circular free.

SANITARY COOP CO., Winter Ave., **INDIANAPOLIS, IND.**

CHAMPION LEG BAND



Aluminum, numbered to suit, with large raised figures. Postpaid 100-50c, 50-30c, 25-20c, 12-15c. Initials extra 10c per letter per 100; 50 or less 5c. More than one initial with cut figures. Circular free giving price on Small Chick, Superior, Riveted and Pigeon Bands. Sample for stamp.

T. CADWALLADER Box 1602 Salem, Ohio

THE SUSSEX AN ALL-AROUND FAMILY FOWL.

By DR. J. H. PRUDHOMME,
Thurmont, Md.

AT THE PRESENT time it is doubtful if there exists any one breed that challenges the attention of poultry fanciers as does the Sussex, England's noted egg-broiler-table fowl, or the all-around family fowl.

The Sussex comes to us with ancient pedigree. They are classed with the Dorking, which is the oldest of all English breeds, having been introduced into England, it is said, by the soldiers of Caesar at the time of the Roman conquest of Britain.

Sussex are now bred in four colors—Speckled, Red, Light and Brown—sufficient color patterns to meet the tastes of the most fastidious.

The Speckled is the oldest of this variety. This is a tri-color fowl, resembling in color type the Mille Fleur Booted Bantam, and they are triple mottled, as it were, having a slate under color, with brownish red bar tipped with white, with colored white and main tail feathers. The English Standard markings of white flight and tail feathers in the Speckled Sussex having been tabooed by American fanciers. The Speckled is the most distinctive color pattern of the four varieties. There are none of similar markings and color among our Standard breeds.

The Red Sussex are very similar to our Rhode Island Reds, having the same black markings, but different in type,

and weight, and color of shank and toes—the Sussex being heavier than Rhode Island Reds. In the latter variety the under color should be "red to the skin," while in the Red Sussex the under color



S. C. Buff Orpington cock, first and grand champion at Canton, Ill., 1915. Owned and bred by H. M. Woods, Carlinville, Ill.

should be slate in the female and "slate shading to red" in the male; the surface color should be a dark shade, "mahogany red" being used to describe the surface color. A noted authority claims that the Red Sussex male is the darkest, richest

colored of any red fowl, the plumage being set off by white shanks and toes, which are characteristic of the best grade of English and Continental table fowl. Further, it is claimed for the Red Sussex that the heavy red coloring will not fade out in summer as is customary with the plumage of other Red fowls, the plumage of which by mid-summer generally presents a faded, mottled appearance.

The Light Sussex have the same markings characteristic with the Columbian Wyandottes. The Brown Sussex should be somewhat similar in color pattern to the Brown Leghorns.

In type the Sussex differ from the Orpington, as also from the R. I. Reds. The typical Sussex should be long in body, long straight back, broad shoulders, with full, well meaty breast; the feathering should be close and not so fluffy like the Orpington. The above characteristics appertain to the breed and are found in typical specimens. Breeders should strive to maintain these dominant features.

As layers, one of England's foremost poultrymen says that after testing every known breed he is bound to confess that no breed can compete with the Sussex as winter layers.

As broilers the Sussex have no superior. The ease with which the chicks may be raised is a strong point in their favor. The usual vigor of the breed being manifested in the chicks from the day they are hatched, making for rapid development that soon puts them out of harm's way. A Western breeder says of the Sussex: "Last year I placed a



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Seymour, Indiana

Tompkins' Rhode Island Reds SINGLE and ROSE COMBS

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limited lot of eggs under one hen and gave her the chickens which she hatched, so that each chick would have the same care. Part of the eggs given her were fresh eggs from vigorous stock of another variety which I had at home, while the Sussex eggs were imported from England and were at least three weeks old when set. Thus the home eggs had this advantage. But even with this considerable advantage the Sussex feathered out and reached frying size much sooner than the other variety. The pullets matured earlier. Now, when we consider that the Sussex attain the size of the Plymouth Rocks it makes it a variety worthy of investigation."

As table fowl the Sussex holds, probably, the first place par excellence, to wit, quoting from a contemporary writer: "When the Sussex were introduced into the London market as dressed poultry, they made the biggest hit of any breed ever produced on that market. It is safe to say more chickens go into the London market than into any other market in the world, and I know for a fact that in dressed poultry in the London market alone there are more Sussex fowl than any other three breeds combined, which proves beyond a doubt or question that as table fowl they have no equal. At the Dairy Show, London, where they specialize in having a big classification in dressed table fowl, Sussex have won the great prizes for the 'best pair of pure bred table fowl' for over ten or twelve years, and this year they equaled all others with a pair of cockerels shown, winning cup, medal, and all the leading honors available for dressed poultry, weighing, when dressed, twenty-five pounds. This will give the reader some idea of the size, vigor and vitality of this wonderful breed."

American Poultry Association Election.

At time of going to press, we had not been able to secure any official report on result of the nomination ballot of the American Poultry Association.

Apparently members either did not know who to vote for as candidates on nominating ballot, or they had but little interest in the matter. From reliable sources we are assured that out of the supposedly 6,500 or more members of the American Poultry Association only 585 voted the nominating ballot.

The leading names on nominating ballot—as stated to us—were:

President, E. E. Richards.....423 votes
Vice-president, A. A. Peters...279 votes
Secretary, S. T. Campbell.....585 votes

For Executive Board there appears to be more competition: In district 2, the leading names were, Thomas M. Poole and Harry M. Lamon. In district 5, Harry H. Collier, L. C. Byce, Robert G. Bailey and J. D. Veach. In district 6, John S. Martin, W. W. Coates and Richard Oke.

Cleveland, the second week in August, led as time and place of meeting.



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2nd Cockerel and 2nd Pen,
Madison Sq. Garden, 1915.
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Andrews' White Wyandottes

Great Win at Boston, 1916

in one of the largest and best classes ever shown—win 1st and 5th Cock, 1st and 2d Hen, 1st and 4th Cockerel, 2d, 3d and 6th Pullet, 1st Pen, Best Display. They have also won at Boston every year for 18 years. Buy your eggs from a strain that has been bred right and has utility value combined with fancy. Cockerels, Trios and Pens for sale. Send for Mating List. Eggs from Prize Matings.

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1st Cock	1st and 4th Hen
2nd Cockerel	1st and 4th Pullet

Our 1st Pullet won cup offered for Best Orpington Hatched in 1915. If you want

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Diamond Corn Gluten Meal is the most concentrated and lowest priced corn-protein on the market. Guaranteed 40% protein, 1.5% fat, 4% fibre.

This is the reason that Diamond Corn Gluten Meal is the chief ingredient in the feeding formulas used by successful poultry men.

Mix Diamond Corn Gluten Meal with your low protein starchy grains for a month. Watch your egg yield and be convinced.

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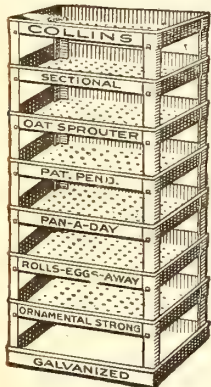
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W. H. COLLINS, 336-D Washington St., NEW YORK

WHY I BREED BUCKEYES.

By LINDLEY T. PLACE.

I HAVE always been interested in poultry, especially pure bred chickens, but had never found a variety that stood for my ideal of what a breed should be.

When I first started with Buckeyes, I found my chance of getting ahead better than with an older breed that had been boomed by breeders who had the means of monopolizing the trade. I also found the Buckeyes not only beautiful, but combined utility with beauty, and why not keep beautiful pure bred birds?

With food prices high (and going still higher), no one can keep scrub stock of any kind, as it costs no more to keep pure breeds.

Although they were made Standard in 1905, their good qualities are still unknown to many breeders.

The reason for this is, that before they were fairly established the originator's health failed and she was obliged to give up the business for a time, altho she is raising a few choice birds and the birds are not only being boomed by her, but by many other fanciers who have the means and the talent for so doing.

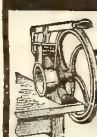
Therefore I can truthfully say that the Buckeyes are to be one of the world's best breeds and the demand for good Buckeyes far exceeds the supply, as they are rapidly growing in popularity and have come to stay.

For the benefit of those who are not familiar with the breed, I will write a short description.

They are strictly an American breed and originated in Ohio. Their blood line comes from the Cornish, Black Breasted Red Games, Buff Cochins and Barred Rocks. From the Cornish comes the pea comb. In appearance they resemble the Cornish, being strongly Oriental in type, the thighs stout and muscular, the breast broad and rounded at sides, showing lack of fullness. The Buckeyes are a dark mahogany bay in color. They are large birds with small pea combs, abundant feathers, and are of an active temperament, which makes their productiveness a sure thing. Their eggs are a soft brown in color and of good size. The market demands are met by a heavy carcass encased in a clean yellow skin.

They fill every requirement and to those who are not fully satisfied with what they have or to those who are just starting in the business let me advise you to buy Buckeyes. I have bred them for several years and have found them satisfactory. Pleased customers in nearly every state, as well as foreign countries, attest to their value for beauty and profit.

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EASIEST run, Fastest Cutter, Strong, Substantial build. Bone scrap means more eggs, higher per centage fertility. Own a "Crown" Cutter and have fresh bone for every feed. Dry Bone, Grain and Shell Mills. Hand and Power sizes. Free illus. catalogue. Est. 36 years. WILSON BROS., Dept. 6 Easton, Pa.

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Won at Buffalo, the past 5 yrs., 4 firsts and 3 seconds on ecls., 3 firsts and 3 seconds on pils., and all firsts on hens. Choice birds, or eggs for hatching.

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we will furnish you settings of eggs, 15 each, of 7 breeds, namely: Regal Plymouth Barred Rocks, Regal White Leghorns, Regal White Wyandottes, Regal Anconas, Regal Single Comb Rhode Island Reds, Regal Campines, Single Comb Wyandottes. We will deliver Parcel Post Insured. Guaranteed fertile every egg for the price \$1.65. Let your orders come.

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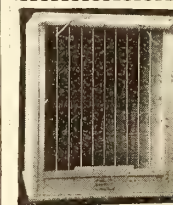
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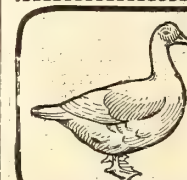
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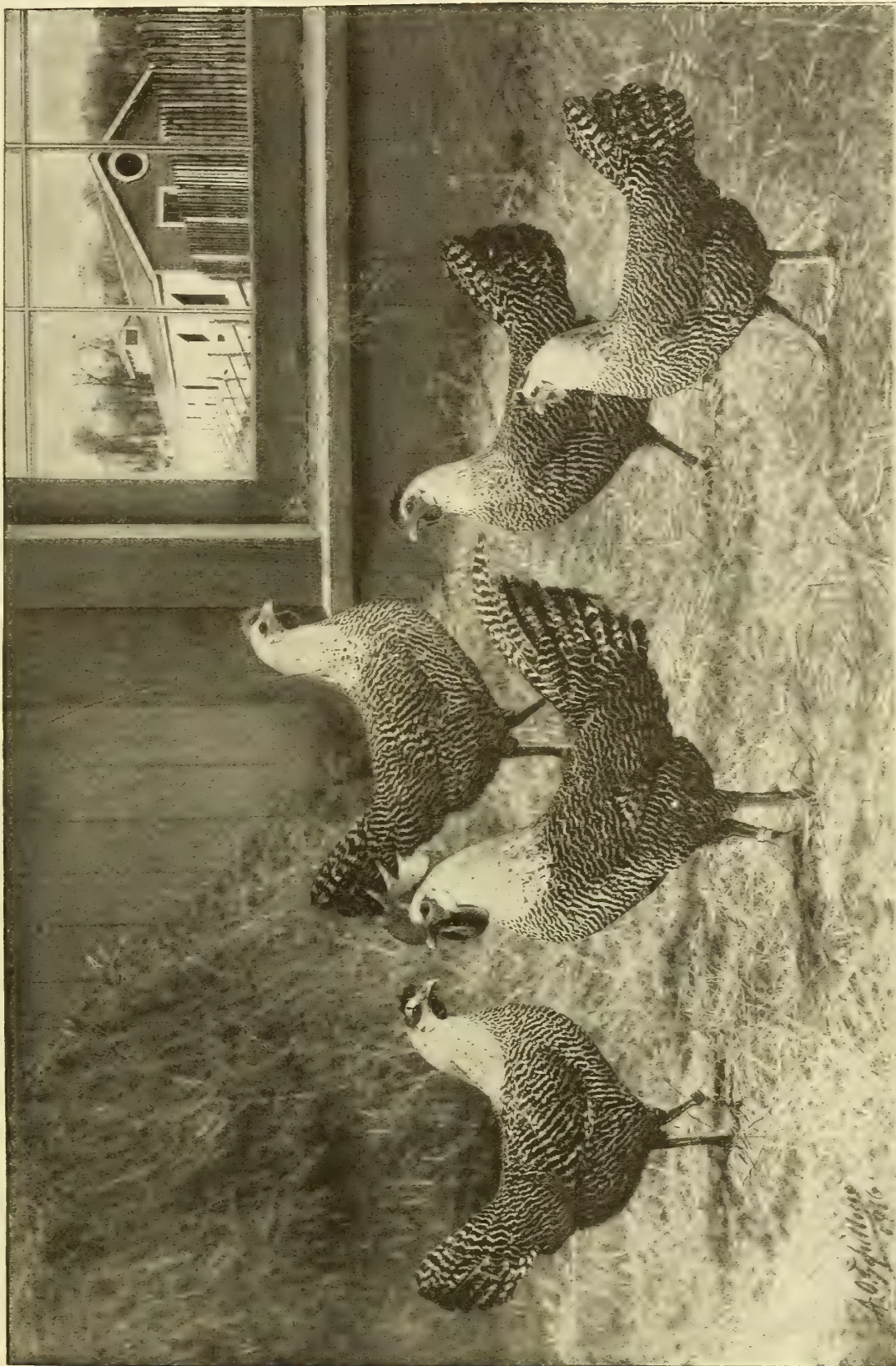
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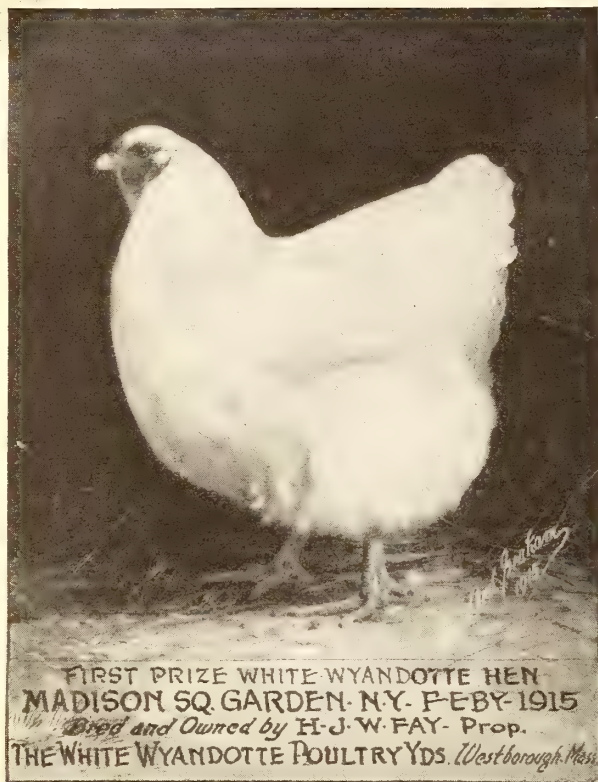
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First Single Comb White Leghorn pullet at Detroit. Bred and owned by Rosedale Egg Farm, Port Huron, Mich.

Associations and Shows

Secretaries are Requested to Send in News Items of Interest About Their Shows for This Department

AWARDS AT THE HILLSDALE, MICH., SHOW.

Paul L. Ward, Secretary.

BARRED PLYMOUTH ROCKS—E. M. Hepner, Quincy, 1 cock, 1 ckl; E. E. Heimbaugh, 2-4 plt; C. R. Withington, 3 hen; A. E. Karner, Riga, 2-3-4 ckl; H. Anthony, 3 cock, 1-2 hen, 1-2 ckl, 1-2-3 plt, 1 pen; W. M. Welch, Reading, 2 cock, 2 hen; C. E. Watkins, 4 ckl; L. A. Jones, 3 ckl, 4 plt.

BUFF PLYMOUTH ROCKS—O. L. Wright, Jonesville, 1 ckl, 1-2 plt; Harley Bates, 1 cock, 1 hen; Adams Bros., Litchfield, 2 cock, 2 hen, 2-3 ckl.

PARTRIDGE PLYMOUTH ROCKS—E. C. Hull, Riga, 1 cock, 1-2 ckl, 1-2-3-4 plt; Chas. Bates, 3 cock; Zina Wright, 1-3 hen.

PARTRIDGE WYANDOTTES—Paul D. Cahow, Reading, 1-4 cock, 2-3 hen, 1-2 ckl, 3-4 plt, 1 pen; Von W. Osborn, 3 cock, 1 hen, 3 ckl, 1-2 plt; Chas. Bates, 2 cock, 4 ckl.

WHITE WYANDOTTES—Guy Mitchell, 1-3 cock, 2 hen, 3 ckl, 4 plt; I. N. Collins, 3 plt; C. R. Withington, 3 hen, 2 plt; Glen Kies, 2 cock, 1 hen, 1-2 ckl, 1 plt.

COLUMBIAN WYANDOTTES—All to Grant Rickerd.

SILVER LACED WYANDOTTES—All to Henry Gettings.

BUFF WYANDOTTES—All to J. H. Adams, Litchfield.

BLACK LANGSHANS—J. A. Spero, La

Grange, Ind., 1 cock, 1-2-3-4 hen, 2 ckl, 2-3-4 plt, 1 pen; Fred Dickinson, Jonesville, 1 ckl, 1 plt.

S. C. ANCONAS—J. A. Spero, 1 pen; Vernon Powers, 1 ckl, 4 plt; J. L. Farnham, Waldron, 3-4 hen, 3 ckl, 3 plt; Sunnybrook Farm, 1-2 hen; Chas. Bates, 2 ckl, 1-2 plt.

S. C. WHITE LEGHORNS—E. B. McKercher, 1-3 hen, 3 ckl, 1 pen; A. R. Hinkle, 4 ckl; Adams Bros., 4 plt; Ezra Kesler, Blissfield, 1-3 hen, 1-2 ckl, 1-2 plt; Sunnybrook Farm, 1-2 cock, 4 hen, 3 plt; Chas. Bates, 3 cock.

R. C. BROWN LEGHORNS—Chas. Derr, Litchfield, 2 plt; E. E. Himebaugh, 1 cock, 1-2 hen, 3 ckl, 3-4 plt; D. E. Spotts, 1-2 ckl, 1 plt, 1 pen.

S. C. BROWN LEGHORNS—O. L. Wright, Jonesville, 2 ckl, 2 plt, 1 pen; Sunnybrook Farm, 1 ckl, 1 plt.

S. C. BUFF LEGHORNS—Sunnybrook Farm, 1-3 plt; Geo. Baylis, Jackson, 1 cock, 1-2 hen, 1-2 ckl, 2-4 plt.

S. C. BLACK LEGHORNS—Sunnybrook Farm, 2-3 plt; Chas. Bates, 1 plt; Paul Ward, 1-2 hen.

SILVER CAMPINES—Will M. Fogg, Jonesville, 2 hen, 1-2 ckl, 1-3 plt, 1 pen; C. D. Westcott, Jerome, 1 cock, 1-3 hen, 2-4 plt.

GOLDEN CAMPINES—All to Harley Bates.

R. C. RHODE ISLAND REDS—I. L. Mitchell, Coldwater, 1 ckl; Dr. O. Boyce, Jonesville, 2 ckl, 1 pen; R. N. Sanderson,

1 cock, 3 ckl, 1-2-3-4 plt.

S. C. RHODE ISLAND REDS—I. L. Mitchell, 2 plt; A. R. Hinkle, 1 pen; E. E. Eddy, 1-2 ckl, 1-3 plt.

S. C. BUFF ORPINGTONS—R. J. Stanfield, 4 cock, 2 plt; W. D. Taylor, 2-3 ckl, 4 hen, 1-3 plt; J. B. Springstead, 2 cock, 1-3 hen; E. J. Watkins, Osseo, 1-3 cock, 2 hen, 1 ckl, 4 plt, 1 pen; Proctor Bros., 4 ckl.

WHITE ORPINGTONS—J. H. Adams, Litchfield, 2 ckl, 2 plt.

BLACK ORPINGTONS—All to C. A. Kyser.

S. C. BLACK MINORCAS—Chas. Derr, 1 hen, 1 ckl, 1 plt; Chas. Bates, 2-3 plt.

BUCKEYES—All to Harley Bates.

HOUDANS—Glen Kies, 1 hen, 1 ckl.

AWARDS OF THE RENNELAER, IND., SHOW.

BARRED PLYMOUTH ROCKS, cockerel bred—Jesse Snyder, 1-2 cock, 1-4 hen, 1-2-3-4 ckl, 2-3-4 plt, 1 pen; Edgar Steward, Fair Oaks, 3 cock, 2-3 hen, 1 plt, 2 pen.

BARRED PLYMOUTH ROCKS, pullet bred—Edward M. Wade, Monticello, 1 cock, 1 ckl, 2 pen; Cecil Fisher, Remington, 3 ckl, 1-2-3-4 plt, 1 pen; Sophia Hudson, 2 ckl.

WHITE PLYMOUTH ROCKS—Guy T. Dooley, Kniman, 1 ckl, 1-2-3-4 plt, 1 pen.

PARTRIDGE PLYMOUTH ROCKS—Mann Spittler, Thayer, 1-2 hen, 1 ckl.

S. C. BROWN LEGHORNS—W. H. Wort-



S.C. WHITE LEGHORNS

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Day Old Chicks, 6 to 8 Weeks Old Chicks, Cockerels and Eggs from Trap-nested Females with Big Egg Records

English Bred Birds (Barron's Strain). Also day old Chicks from fine Rhode Island Red and Barred Rock stock.

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Acknowledged Everywhere the World's Greatest Laying Strain. Unequalled in Standard Qualities

Remember that we are the **ORIGINATORS** and for 35 years specialty breeders of the justly celebrated **WYCKOFF** Strain of S. C. White Leghorns, the most profitable strain of poultry in America today. Place your orders at headquarters and make no mistake. **EGGS FOR HATCHING** in any quantity from the grandest of matings. Send for catalog and testimonials from satisfied customers from all over the world.

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Do you want eggs that will hatch and chicks that will live from pure bred stock with plenty of size, true type and bred for heavy egg production? We are specialty breeders and exhibitors and not simply a hatchery. All eggs and chicks from same birds we raise our own winners. Barred, Buff, White, Partridge Rocks, White, Buff, Partridge, Silver Wyandottes, Buff, Black, White Orpingtons, S. and R. C. Reds, Light Brahmas, Black Langshans, S. C. White, Brown Leghorns, Silver, Golden Campines, Anconas, S. and R. C. Black Minorcas. Catalog with pictures, show records and prices free. Order at once for early chicks and eggs.

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Box 500

STERLING, ILL.



1st Cock, New York State Fair, 1914

1st Pullet, Grand Central Palace, N.Y., 1914

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S. C. White Leghorns

HATCHING EGGS

100% Fertility Guaranteed

Eggs from husky, vigorous yearling or older hens, mated with cockerels full of vitality. All bred for egg production, right on our own farm. All eggs shipped promptly.

DAY-OLD CHICKS

Delivery Guaranteed

Every chick hatched from our own eggs, and delivery at your express station guaranteed. Chicks, the husky kind, that thrive. Get started right. The right kind are worth more.



White Leghorn Hatching Eggs from the Million Egg Farm

Write for free booklet, giving price, description and other information.

Winners on S. C. White Leghorns for years at shows East and West. Here are some of our latest—1st old pen, Chicago Coliseum, 1915; 1st pen, Madison Square, Feb., 1915. 4 firsts, Buffalo, 1915.

White Plymouth Rocks

have been winning at Madison Square and Boston for 10 years. Among our recent winners are—1st pen, 1st hen, Madison Square, 1916. All firsts, New York State Fair, 1915. The Rancocas strain of White Rocks is today one of the oldest and stands among the greatest leading strains. It has for years produced winners at the big shows. This strain has been carefully bred along well-defined lines for fifteen years by the same breeder.

Send for mating list, with description of matings, winners, prices of eggs. We can always furnish you with birds to win, or stock and eggs that will produce winners.



1st Cockerel, Madison Square Garden, 1913



1st Hen, Madison Square Garden, 1913

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Box 638

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Suss-X

Red and Speckled

At Greater Chicago Show we won FIRST PEN and other prizes. At Big Detroit Roundup Show we won more than all competitors combined, winning all the firsts.

Closing Out Campine Sale

Pens of exhibition quality, \$15.00. A few hatching eggs for sale from Chicago First Prize Pen of Speckled Sussex.

L. C. Brackett, Hopkins, Mich.

ley, 1 cock, 2-4 hen, 1-2-3-4 ckl; John A. Johnson, Lowell, 1-3 hen, 1-2 plt; Blanch Peterson, 4 plt.

S. C. WHITE LEGHORNS—Esther Carr, 1 ckl; Lucy Van Hook, 1-2-3-4 plt.

WHITE WYANDOTTES—Thomas Cain, 1 cock, 2-3 ckl, 2-3-4 plt; J. M. Sauser, 2 cock, 4 ckl, 1-2-3-4 hen, 1 plt, 1-2 pen; Arthur Mayhew, 1 ckl.

S. C. WHITE ORPINGTONS—C. W. Postill, 1 cock, 1-2-3-4 plt, 1 pen.

DARK CORNISH—John Webber, 1 cock, 1-2-3-4 hen, 1 ckl.

S. C. RHODE ISLAND REDS—Raymond McCarty, Lowell, 1-3 hen, 1-2-3-4 plt; Albert Linback, 2 hen, 1 ckl; Wilda Stankie, 2 ckl.

SILVER CAMPINES—J. M. Sauser, 1-2 hen, 1 ckl, 1-2 plt, 1 pen; Mann Spittler, 2 ckl, 3-4 plt.

BUFF ORPINGTONS—Albert Linback, 1 cock, 1-2 hen, 1-2-4 ckl, 3 plt; R. L. Budd, Fair Oaks, 3 ckl, 1-2 plt; E. J. Duvall, 4 plt.

LIGHT BRAHMAS—A. F. Long, 1 hen, 1 plt; Edgar Steward, 2 hen, 2 plt.

AWARDS AT THE ST. CLOUD, MINN., SHOW.

Henry C. Nierenarten, Secretary.

BARRED PLYMOUTH ROCKS—Croke-Bangsund Co., Two Harbors, 1 cock, 3 ckl, 3-4 plt; John Maihs, 2-3 cock, 5 hen, 1 ckl, 1 pen; Wm. Neutzling, 4 cock, 1-2 plt; Sam O. Spaeth, 5 cock; Julius Schmidt, 3-5 ckl, 5 plt, 2 pen; Andy F. Kehr, 2 hen, 3 pen; Harvey Wilson, Clearwater, 4 ckl; Ed Roth, Mora, 1 hen; W. B. Wiley, 3-4 hen.

WHITE PLYMOUTH ROCKS—A. A. Lagergren, 1 cock, 5 ckl, 5 plt; Fred D. W. Thias, Two Harbors, 1-3 hen, 1 ckl, 1-4 plt, 1 pen; Jos Reichert, 2-4 hen, 3 ckl; W. B. Wiley, 5 hen; Jacob A. Lahr, 2 ckl, 2-3 plt; Chas. Scharenbroich, 4 ckl, 2 pen.

BUFF PLYMOUTH ROCKS—Ed Roth, 1 hen.

PARTRIDGE PLYMOUTH ROCKS—Andy Goedert, 1 cock, 1-2-3-4 hen, 1 ckl.

R. C. RHODE ISLAND REDS—Fred D. W. Thias, 1 cock, 2-3-4 hen, 4 plt, 2 pen; Leo J. Lauer, 2 cock, 2-3 ckl; S. W. Maxson, 1 hen, 1 ckl, 1-2-3 plt, 1 pen; Phillip Schwab, 5 hen, 4-5 ckl, 5 plt.

S. C. RHODE ISLAND REDS—Dr. F. C. Lee, Duluth, 1 cock, 1-2-3 hen, 1 ckl, 1-2-3-4-5 plt, 1-2 pen.

S. C. ANCONAS—Ogden Poultry Ranch, New London, 1 ckl, 1-2 plt.

BLUE ANDALUSIANS—Fred D. W. Thias, 1 ckl, 1-2-3 hen, 1 plt, 1 pen.

LIGHT BRAHMAS—Chas. Scharenbroich, 1-2 ckl, 1-3 plt.

SILVER CAMPINES—E. W. Grunwald, 1 ckl, 1-2 hen, 1-2 plt, 1 pen.

GOLDEN CAMPINES—Sam O. Spaeth, 1-2 ckl, 1-2 plt.

PARTRIDGE COCHINS—Robt. Kuehn, 1 cock, 1-3-4 hen; John Maihs, 2 hen; Jacob Rassier, 1 ckl, 1-2 plt.

SILVER SPANGLED HAMBURGERS—Mr. and Mrs. Mitchell, Crookston, 1-2 cock, 1-2-3 hen, 2-3-4 ckl, 1-3-4-5 plt, 1 pen; Model Poultry Yards, LaCrosse, 1 ckl, 2 plt.

BLACK JAVAS—P. N. Kolling, 1 cock, 1-2 hen, 1-2 plt; Jacob Rassier, 3-4 plt.

BLACK LANGSHANS—Geo. Jacobson, 1 cock, 1-2 hen.

S. C. BROWN LEGHORNS—Mr. and Mrs. Mitchell, 2-3 cock, 1-2-3-4-5 hen, 2-3 ckl, 1 plt, 1 pen; Joar Walstedt, Sauk Rapids, 1 cock, 1 ckl, 2-3-4-5 plt.

R. C. BROWN LEGHORNS—Croke-Bangsund Co., 1 cock, 1 hen, 1 ckl, 1-2 plt; Ed Roth, 2 hen, 2 ckl, 3 plt; Herman Schoener, 4-5 plt.

S. C. WHITE LEGHORNS—Gunnard Larson, Sauk Rapids, 1 cock, 4 hen, 1 pen, 2 plt; Joe Nole, 1 cock, 3 hen, 4 ckl, 5 plt; Mr. and Mrs. Mitchell, 2 cock, 1-2 hen, 3 ckl, 2-4 plt; Wm. Hopte, 3 cock, 5 hen, Croke-Bangsund Co., 1-2 ckl, 1 plt.

R. C. BUFF LEGHORNS—Fred D. W. Thias, 1 cock, 1-2-3-4 hen, 1 pen; Andy Goedert, 1-2-3 ckl, 1-3-4 plt, Sam O. Spaeth, 4 ckl, 5-6 plt.

S. C. BLACK LEGHORNS—Robt. Kuehn, 1 cock, 1-2-3-4 hen, 1 ckl, 1-2-3 plt, 1-2 pen; Joe Mikolitch, 2 ckl, 3-4 plt.

SILVER DUCKWING LEGHORNS—Fred D. W. Thias, 1 cock, 1-2 hen, 1-2 plt, 1 pen.

S. C. BLACK MINORCAS—Robt. Kuehn, 1 hen, 1 plt; Mrs. B. A. Coup, 2 hen.

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Remember, you take my word for nothing. I state only official records made at National Laying Contests.

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\$8.69 worth of Eggs by BARON-ESS V, the 282-egg hen, at North American Contest, 1913-14. Four others laid 274, 271, 258 and 252 eggs. The five laid 1337 eggs, an average of 267, or \$8.21 per hen.

I have a flock of 27 Hens that gave net profit per hen of \$4.67. These are the three Contest Flocks I bought of Barron, and which he had at Pennsylvania, Connecticut and Missouri. All my Wyandottes are bred from these.

In Leghorns—

I am breeding the Highest Pedigree Cockerels in the World, out of the 288-Hen, winner at Newport, Eng. This affords new winning blood for the Barron breeder. Others, 284, 256, 255, etc.

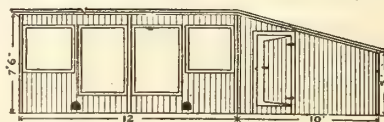
In Buff Rocks—

280, 265, 263, 240, etc. I guarantee all contest birds.

All Breeders tested by Storrs' College. Free of white diarrhoea.

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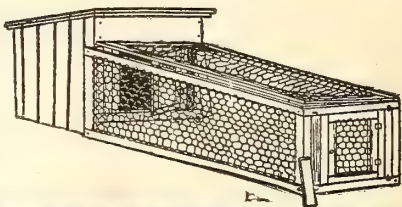


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S. C. White Orpingtons

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Seven entries and 7 places at this year's (1915) Forest City Fair, Cleveland, largest show in Mid-West. GEO. H. SINGLETON, 14530 Detroit Ave., LAKEWOOD, OHIO

Thornycroft Buff Leghorns

Have won at Madison Square, Pittsburg, Buffalo, New York State Fair, and Hagerstown, within a year. They win in any competition. Write your wants. THORNYCROFT BUFF LEGHORN FARM WASHINGTON, PA

R. C. BLACK MINORCAS—Robt. Kuehn, 1 cock, 2-3-4 hen, 2-3-5 ckl. 1-3-4-5 plt. 1-2 pen; John Walstedt, 1-5 hen, 1-4 ckl. 2 plt.
S. C. WHITE MINORCAS—Joe Riechert, 1-2-3 cock, 1-2-3 hen, 1-2-3-4 plt; Sam O. Spaeth, 1 ckl. 5 plt.

S. C. BUFF ORPINGTONS—G. A. White, Monticello, 1-3 cock, 2-3 hen, 2 ckl. 1-3-4 plt. 1-3 pen; John L. Dominik, 2 cock, 1-4 ckl; H. C. Nierengarten, 4 cock, 1 hen, 2-4 plt. 2 pen; H. W. Smith, Osakis, 5 cock, 5 ckl. 4-5 pen; John Yellolees, Winnipeg, 4-5 hen, 3 ckl.

S. C. WHITE ORPINGTONS—V. H. Kingsbury, Monticello, 1 cock, 1-2-3-4 hen, 1-2-3 ckl. 1-2-3-4 plt. 1-2 pen.

S. C. BLACK ORPINGTONS—John Spaniol, 1 cock, 1 ckl. 3 hen, 1 plt; Otto Zapp, 2 cock, 1-2-4-5 hen, 1 pen; Frank Jung, 3 cock, 3 hen, 2 ckl. 2-3-4 plt. 2 pen.

SILVER WYANDOTTES—Neva James, Paynesville, 1 cock, 1 hen, 1 ckl. 1-2-3-4-5 plt. 1 pen.

GOLDEN WYANDOTTES—Ed Roth, 1 hen.

WHITE WYANDOTTES—Nelson Poultry Yards, Monticello, 1-2-5 cock, 1-2-3-4-5 plt. 1-2-3-4 ckl. 1-2 pen; Ed Wikman, 3 cock; Wm. Munsinger, 4 cock, 3 hen, 2 plt. 3 pen; Jacob A. Lahr, 5 ckl. 5 plt.

BUFF WYANDOTTES—Fred D. W. Thias, 1 cock, 1-2-3 hen.

PARTRIDGE WYANDOTTES—Geo. W. Walton, Valva, N. D., 1 cock, 1-2-3-4 hen, 1-2 ckl. 1-2-3 plt. 1 pen.

SICILIAN BUTTERCUPS—Chas. Scharenbroich, 1-2 hen, 1 ckl. 1-2-3 plt.

BRONZE TURKEYS—Mrs. H. B. Hobart, Alexandria, 1 cock, 1 hen.

BUFF TURKEYS—Mrs. H. B. Hobart, 1 ckl. 1 plt.

AWARDS OF THE PARIS, MO., SHOW.

J. W. Jackson, Secretary.

BARRED PLYMOUTH ROCKS—J. K. Curtright, 1-3 cock, 1-2-3 hen, 2-3-4 ckl. 1-3 plt. 1-3 pen; J. A. Ayers, La Plata, 2 cock, 4-5 hen, 2-4-5 plt; Mrs. C. D. Roberts, Holliday, 1-5 ckl; R. A. Curtright, 4 cock, 4 pen; J. K. Greer, 5 cock, 5 pen.

WHITE PLYMOUTH ROCKS—R. Porter, 1-3-4 cock, 1-2-4-5 hen, 1-3-4-5 ckl. 1-3-5 plt. 1-3 pen; E. J. Rouse, 3 hen, 2 ckl. 2-4 plt. 2 pen; R. E. Trussell, 2 cock, 5 pen; Harry Chapman, 5 cock.

PARTRIDGE PLYMOUTH ROCKS—N. B. Webster, Keytesville, 1-2 cock, 1-2-3-4-5 hen, 1-2-3-4 plt. 1 pen.

S. C. RHODE ISLAND REDS—W. H. Jackson, 1-2 cock, 1-2-3-4 hen, 2 ckl. 2-5 plt. 1-4 pen; S. H. Rickey, Clarence, 1-5 ckl. 1-3 plt. 2 pen; H. L. Mius, 3 ckl. 4 plt. 3 pen; Mrs. J. H. Yowell, 3 cock, 5 hen; J. W. Chapman, 4 ckl. 5 pen.

R. C. RHODE ISLAND REDS—W. B. Cottingham, Moberly, 1 cock, 1-2-3-4 hen, 1 plt. 1 pen.

WHITE WYANDOTTES—E. E. Ash, 1 cock, 1-2-3-4 hen, 5 ckl. 5 plt. 2-4 pen; Chas. Ragsdale, Moberly, 3 cock, 5 hen, 2-3 ckl. 1-2 plt. 3 pen; Geo. W. Cole, La Plata, 2 cock, 1-4 ckl. 3-4 plt. 1 pen.

PARTRIDGE WYANDOTTES—H. F. Meier, 1-2-3-4-5 plt.

BUFF ORPINGTONS—Mrs. J. M. Craig, 1-4 cock, 4 plt. 1-5 pen; Mrs. J. N. McDaniels, Arbela, 5 cock, 1-4-5 hen, 3 ckl. 2 pen; J. W. Jackson, 2-3 cock, 2-3 hen, 5 ckl. 1-5 plt. 3-4 pen; Carl Dean, Arbela, 1-2-4 ckl. 3 plt; W. E. McFarland, 2 plt.

WHITE ORPINGTONS—W. E. Beacon, 2-5 cock, 5 ckl. 5 pen; A. R. Bondurant, 1 cock, 2 pen; H. W. Sherwood, Clarence, 3-4 cock, 1-2-4-5 hen, 4 ckl. 1-3-4 plt. 3-4 pen; W. H. Sears, Clarence, 3 hen, 1-2-3 ckl. 2-5 plt. 1 pen.

BLACK ORPINGTONS—L. P. McDonald, Moberly, 1 cock, 1-2-3-4 hen, 2-3 ckl. 1-3-5 plt. 1 pen; H. W. Shatger, 1 ckl. 2-4 plt.

S. C. WHITE LEGHORNS—Mrs. C. A. Painter, 3-4-5 cock, 5 hen, 3-5 ckl. 3-5 plt. 3-5 pen; C. H. Rickey, Clarence, 1-2 cock, 1-2-3-4 hen, 1-2 ckl. 1-2-4 plt. 1-2 pen; O. C. Dowdy, Madison, 4 ckl. 4 pen.

S. C. BROWN LEGHORNS—Charles E. Pogue, 1-2 cock, 1-2-3-4-5 hen, 1-2 ckl. 3 plt. 1-2 pen; Mrs. J. T. Scobee, Perry, 3 cock, 3-4 ckl. 1-5 plt. 3 pen; Mrs. J. M. Barnes, 4 plt.

S. C. BUFF LEGHORNS—J. A. Estel, 1 cock, 1-2 hen, 1-2 plt. 1 pen.

BLACK LANGSHANS—Mrs. W. F. Kirkland, 1 cock, 1-2-3-4-5 hen, 1-2 ckl. 1-2-3-4 plt. 1-2 pen.

WHITE LANGSHANS—Mrs. W. F. Kirkland, 1 hen, 1 ckl. 1 plt.

SILVER SPANGLED HAMBURGS—J. W. Chapman, 1 ckl. 1-2-3-4 plt.

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White Wyandottes, Barred Rocks and S. C. Rhode Island Reds - \$10 per 100
White and Brown Leghorns, \$9 per 100. Eggs for Hatching. Prompt shipments. Stock guaranteed.
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NYE'S S. C. WHITE LEGHORNS

All farm raised, laying and exhibition qualities combined.

EGGS FOR HATCHING

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from grand exhibition pens and two large utility flocks. Also LIGHT BRAHMAS and ROUEN DUCKS. Send for free mating list. A few cockerels left for sale.

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CHICKS for Profit 8 cents and up

Are obtained from Wyngarden's famous strains of White and Brown Leghorns, Barred Rocks and Anconas, which are bred for heavy laying and show qualities.

We have about 5,000 selected breeders from the best strains in America.

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We guarantee safe arrival. Catalogue free.

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EGGS FOR HATCHING from Chicago Winners. Express prepaid. Prices reasonable. Send today for free catalogue. We guarantee to please every customer.

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The farm with no dissatisfied customers.

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WHY DON'T YOU BREED

Winter Laying Leghorns

AND MAKE SOME MONEY?

Dr. Heasley's S. C. Buffs outlaid all Leghorns for January in Missouri Egg Contest—laid 40% above 200 for a customer—won Club Special on shape at World's Fair and Championship at Chicago Coliseum Show. We've proven our claims. Bred for Eggs but Fit to Show.

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ROOSEVELT'S S. C. W. LEGHORNS

especially bred for heavy egg production from high average flock. Orders placed with us will fill your expectations.

Chicks, 15c each	\$15.00 per 100	\$120.00 per 1000
Eggs, \$1.50 per 15	\$ 6.00 per 100	\$ 50.00 per 1000

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ROOSEVELT POULTRY FARM

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The practical CHICK Feeder. Easy to clean and fill. Made of galvanized iron, size 10x4 inches. One trial will convince you. Price, 25c each, or mailed for 32c, 3 postpaid, 90c.

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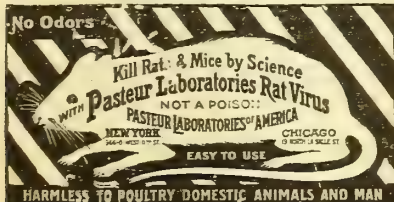
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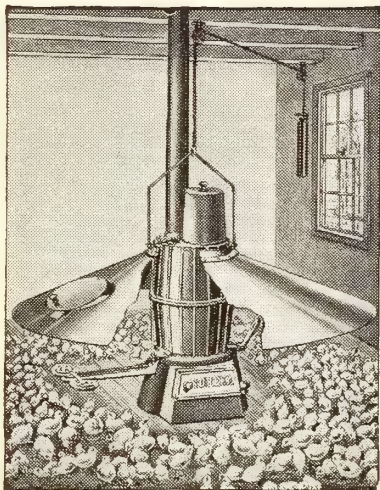


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Fancy-Utility bred. Our pullets gave 50% egg yield Nov. 1st, and are keeping up the good work right thru the cold weather. We guarantee every egg or bird we sell; you take no chance with us. Eggs for hatching from \$1.50 to \$5.00 per 15. Mating list free. J. W. Klein, Kiel, Wis.

Cooke's Black Langshans

Winners at the
Largest Shows

Won this year at Milwaukee, 1st and 3rd cockerel, 2nd and 3rd cock, 1st, 3rd and 4th hen, and 1st and 2nd pullet (nine entered, all placed). Many prizes won at Racine, including 1st cockerel and grand champion of the show, all varieties competing. My White Leghorns made a grand win this year at Racine. Sale of Black Langshan Cockerels now on. Prices reasonable. Eggs for hatching, stock for sale. Limited number of pairs, trios and breeding pens at prices to suit in both breeds.

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HOMESTEAD SILVER CAMPINES THE VIGOROUS STRAIN

At the big Boston Show, January, 1916. At the largest winter show of the season—Cock, 1-2-3-5-6; hen, 1-2-3-4; cockerel, 1-3-4; pullet, 1-3-5-6; 1st and 2d exhibition pen; 1st display; special for best cock, hen, cockerel, pullet and pen.

Palace Show, New York, 1915. At the second largest show of the season, Frank L. Platt, Judge—1-4 cocks, 1-2 hens, 1-5 cockerels, 2-4 pullets, 2nd exhibition pen, 1st display, special for color and type, 1st hen, special for color, 1st cockerel.

New York State Fair, 1915. The first big show this season—2nd cock, 1st hen, 3-5 cockerels, 2-3 pullets; 1st old exhibition pen, 2nd young exhibition pen.

Won at Boston, 1915. 13 regular prizes—4 firsts, special for best display, best cock, hen, cockerel and pen.

The comment on the quality and condition of our birds at the above shows was universally—wonderful!

We have many more good birds at our Homestead Campine Farm, and if you are interested we shall be pleased to send you one of our new catalogs. Our aim always is to give full value and satisfaction. We would suggest to our prospective purchasers they book their orders as soon as possible that they may not be disappointed, for from present indications the demand for both hatching eggs and stock will be greater than the supply.

We have mated about twenty pens for 1916, all headed by prize winners and we are giving our patrons the full benefit of every pen and every prize winner and not a single egg is shipped from our farm that we would not use for our own purpose.

HOMESTEAD CAMPINE FARM

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WAYLAND, MASS.

SMITH'S S. C. BUFF LEGHORNS — I HAVE NO OTHER BREEDS

The largest and best breeder of Buffs in the world. Fair at San Francisco in 1915. My birds are show grand layers and show birds for the past 17 years. 1916: 15 pens mated with one male and one female. \$11.00 per 50, \$20.00 per 100 and up.

F. S. SMITH

Winners at fifteen of the largest shows, including Hagerstown, Chicago, and the World's color and type and are bred to lay the year around. I have taken great care in producing. Can furnish breeding stock, baby chicks and eggs by the thousands. Thirty-one pens for Eggs \$2.00, \$5.00 and \$30.00 per 15, and \$10.00 per 100 and up. Baby chicks \$6.00 for 25.

Box C. and D.

HAMILTON, O.

AWARDS OF THE EDON, OHIO, SHOW.

BARRED PLYMOUTH ROCKS—Dr. J. E. Blosser, Edgerton, 1-2-3-4 cock, 3-4 hen, 1-2-3-4 ckl, 1 pen; S. S. Wineland, Bryan, 1-2 hen, 1-2-3-4 plt.

BUFF PLYMOUTH ROCKS—George Scott, 1 cock, 1-2-3-4 hen, 1-2 ckl, 1-2-3-4 plt, 1 pen.

PARTRIDGE PLYMOUTH ROCKS—S. S. Wineland, 1 cock, 1 ckl, 1-2-3-4 plt, 1 pen.

WHITE PLYMOUTH ROCKS—P. E. Thomas, Fayette, 3 hen, 1-2 ckl, 1 plt; H. A. Steffe, Helmer, Ind., 1-2 cock, 1-2-4 hen, 3-4 ckl, 2-3-4 plt, 1 pen.

WHITE WYANDOTTES—L. L. Strausborger, 1-2-3 cock, 1-2-4 hen, 1 ckl, 1-2-3-4 plt, 1 pen; Hiram Long, Edgerton, 2-3 ckl, 2 pen; Jacob W. Gearhart, 3 hen.

R. C. RHODE ISLAND REDS—I. G. Kaufman, 1-3 ckl, 1-2-3-4 plt.

S. C. RHODE ISLAND REDS—Stroman & Howarter, Helmar, 2 cock, 1-2-3-4 hen, 2-3-4 ckl, 1-2-3-4 plt, 1-3 pen; W. M. Irish, Edgerton, 1 cock, 1 ckl, 2 pen.

WHITE ORPINGTONS—Amos Steffe, Helmer, 1 cock, 1-2 hen, 1-2-3 ckl, 1-2-3-4 plt, 1 pen.

WHITE LEGHORNS—J. W. Gearhart, 1-2 hen.

BUFF LEGHORNS—George Scott, 1 cock, 1-2-3-4 hen, 1-2-3 ckl, 1-2 plt, 1 pen.

S. C. BLACK MINORCAS—Jacob W. Mumaw, 1 cock, 1-2-3 hen, 1-2 ckl, 1-2-3-4 plt, 1 pen.

SILVER CAMPINES—Jacob Mumaw, 1-2-3-4 hen, 1-2 ckl, 1-2-3-4 plt, 1-2 pen.

HOUDANS—Mrs. L. M. Braden, 1-2-3 hen, 1 ckl, 1 plt, 1 pen.

AWARDS AT THE CHIPPEWA FALLS, WIS., SHOW.

R. R. Woodruff, Secretary.

BARRED PLYMOUTH ROCKS—C. H. Rickey, Augusta, 1 cock, 4 plt; J. C. Burkart, Eau Claire, 2 cock, 2-3-4 hen, 3 pen; Mrs. J. F. Gotten, 3 cock, 1-2-4-5 ckl, 2 pen; J. L. Frederick, 4 cock; E. J. Theodens, Augusta, 1 hen, 4 pen; F. B. Seville, Augusta, 5 plt; L. T. Abercrombie, 3 ckl, 1-2-3 plt, 1 pen.

WHITE PLYMOUTH ROCKS—L. T. Abercrombie, Waupaca, 1-2 cock, 1-2-4 hen, 1 ckl, 1-2-3-4 plt, 1 pen; E. J. Wilson, Augusta, 4 cock, 3 hen, 2-3 ckl, 5 plt, 2 pen; H. H. Morgan, Rice Lake, 5 hen, 4 ckl; Ray Johnson, Augusta, 5 hen.

BUFF PLYMOUTH ROCKS—Bert Frederick, Augusta, 1 ckl, 1 plt; Louis Mandelert, 1-2-3-4 hen; Carl Rasmus, 2-3 ckl, 2-3-4-5 plt, 1 pen.

PARTRIDGE PLYMOUTH ROCKS—Felix La Bree, Rice Lake, 3 cock, 3 hen, 1 plt.

S. C. RHODE ISLAND REDS—A. J. Amundson, New Auburn, 1 cock, 5 hen, 1-2-3-4 ckl, 1 plt, 1 pen; J. R. Costerisan, 2 cock, 1-2-3-4 hen, 3-4 plt, 2 pen; W. G. Royer, Owen, 3 cock, 5 ckl, 2 plt, 3-4 hen; Frank Weigand, 5 cock; Wm. Dorland, 5 plt.

R. C. RHODE ISLAND REDS—Ralph Kienholz, Stanley, 1 cock, 1-3 hen, 3-4 ckl, 1-2-5 plt, 1 pen; A. H. Ahrens, Eau Claire, 2 cock, 1-2-5 ckl, 5 plt; J. L. Herbst, Sparta, 3 cock, 2 hen; 4 plt; Alex Tremblay, Cobban, 5 ckl, 3 plt, 2 pen.

WHITE WYANDOTTES—Chas. G. Andrews, Hudson, 1 cock, 2-4-5 hen, 2-3-4 ckl, 1-2-3-4 plt, 1-3 pen; Walter Smith, 2 cock; J. L. Frederick, 3 cock, 1-3 hen, 5 ckl; Mrs. C. Jost, 1 ckl, 5 plt, 2 pen.

SILVER WYANDOTTES—C. J. Repp, 2-4-5 hen, 1-2 ckl, 1-2-3-4-5 plt, 1 pen; Delmar Smock, 1 cock, 5 ckl; J. L. Fred-

erick, 3 hen, 3 ckl; Jos. Trudelle, 4 ckl.

GOLDEN WYANDOTTES—J. L. Frederick, 2-3-4 ckl, 1-2 pit; Bert Frederick, 1 ckl.

S. C. WHITE ORPINGTONS—White Orpington Poultry Yards, Rice Lake, 1 cock, 2-4 hen, 1-3 ckl, 1 pit, 1 pen; D. W. Davis, Stanley, 2 cock, 1-5 hen, 4 ckl, 2 pit, 2 pen; Frank Dallas, 2 ckl, 3-5 pit; E. M. Rogers, Rice Lake, 3 hen, 4 pit; O. Gilbertson, 5 ckl.

S. C. BUFF ORPINGTONS—Mrs. R. C. Rodecker, Holcombe, 1 cock, 1-2-3 hen, 2-3 ckl, 1-4 pit, 2-3 pen; R. R. Woodruff, 3-4 hen, 1-4-5 ckl, 2-3-4 pit, 1 pen; Chris Arneson, 2 cock; J. C. Stumm, 5 hen.

S. C. BLACK ORPINGTONS—L. S. Fairman, Broadhead, 1 cock, 2-4-5 hen, 1 ckl, 1 pit, 1 pen; P. M. Chapman, Alma Center, 2 cock, 3 pit, 2 pen; A. L. Putnam, 3 cock, 3 hen, 2-4-5 ckl, 2-4-5 pit, 3 pen; R. W. Iliff, Jr., Alma Center, 4 cock, 1 hen, 4 pit; Bert Frederick, 3 ckl; Verner Elstran, 5 hen.

S. C. BLUE ORPINGTONS—F. W. Jenkins, 1-2 cock, 1-2-3-4-5 hen, 1-3-4-5 ckl, 1-2-3-4-5 pit, 1-2 pen; E. M. Rogers, Rice Lake, 2 ckl.

LIGHT BRAHMAS—R. J. Emmerson, 1-2-3-4-5 ckl, 1-2-3-4-5 pit, 1 pen.

BLACK LANGSHANS—Mrs. J. P. Slater, 3 pit.

S. C. WHITE LEGHORNS—J. L. Frederick, 2 cock, 4-5 hen, 2 pen; R. W. Iliff, Jr., 1-2-3 hen, 2-4 ckl, 1-2-5 pit, 2 pen; Henry Kosmos, Eau Claire, 1 ckl, 3-4 pit, 1 pen; Otto E. Bahlke, Eau Claire, 3-5 ckl; C. M. Crain, 4 pen.

S. C. BROWN LEGHORNS—C. H. Rickey, Augusta, 1 cock, 1-2-3-4 hen, 1-3 ckl, 1-2 pit, 1 pen; Carl Johnson, 2 ckl, 3-4-5 pit, 2 pen.

S. C. BUFF LEGHORNS—P. M. Chapman, 1-3 ckl, 1-2-3-4 pit, 1 pen; W. H. Chapin, 4-5 ckl, 2 pen; J. L. Frederick, 2 ckl, 5 pit; C. J. Lind, Colfax, 3 cock.

R. C. BUFF LEGHORNS—J. L. Frederick, 1-2 hen, 1-2 ckl, 1-2-3-4 pit, 1 pen.

R. C. WHITE LEGHORNS—Ed. Loughrea, 1 ckl.

GOLDEN CAMPINES—C. J. Lind, 1 hen, 2 ckl, 1-2 pit.

LAKENVELDERS—Norman Felix, 1 cock, 1-2 hen.

S. S. HAMBURGS—Mrs. F. G. Govin, Elk Mound, 1-2 cock, 1-2-3-4-5 hen, 1-2 ckl, 1 pit, 1-2 pen; Andrew Hanson, Jr., 3 cock.

S. C. ANCONAS—H. A. Young, Augusta, 2 cock, 1-2 ckl, 1-3-4 pit, 1 pen; M. A. Stellick, Sparta, 1-2 hen, 3 ckl, 2 pit, 2 pen; Mrs. Dr. Ihle, 1 cock.

AWARDS OF THE MUSKEGON HEIGHTS, MICH., SHOW.

(Muskegon, unless otherwise given.)

EXHIBITION BARRED PLYMOUTH ROCKS—Geo. Murphy & H. F. De Witt, 1-2-4 cock, 3-4 hen, 3-4 ckl, 3-4 pen; pit-bred 1-4 cock, 1-3-5 pit, 1 pen; ckl-bred 1-2 cock, 2-3-5 hen, 2 pit, 1 pen; J. H. Hess, 1-5 hen, 2 ckl, 2-3-5 pit, 1 pen; pit-bred 2 cock, 1-2 hen, 2-5 ckl, 2 pen; ckl-bred 1 ckl, 1-5 pit, 2 pen; John Bodendofer, 1 ckl, 1-4 pit, 2 pen; pit-bred 3 ckl, 2-4 pit, 3 pen; Guy Jones, 3 cock, 2 hen; ckl-bred 1 hen, 3 pit; Floyd Bailey, ckl-bred 2 ckl, 4 pit, 3 pen; Geo. Longhurst, 4 ckl-bred hen.

WHITE PLYMOUTH ROCKS—James Bugby, 3 cock, 4-5 hen, 3-5 ckl, 3 pen; Dr. E. Geo. Gray, Ludington, 2 hen, 1-2 ckl, 1-2-3-4 pit, 1-4 pen; Fruitvale Egg Farm, Montague, 1-2-4 cock, 1-3 hen, 2 pen; R. O. Hamill, Shelby, 5 cock, 4 ckl, 5 pit, 5 pen.

PARTRIDGE PLYMOUTH ROCKS—I. J. Fles, 1 cock, 1-2-3-4-5 hen, 1 ckl, 1-2-3 pit, 1 pen.

WHITE WYANDOTTES—Daniel Wurtz, 1-2 cock, 1-2-3-4-5 hen, 1-2 ckl, 1-2-3-4 pit, 1-2 pen.

SILVER WYANDOTTES—Louis Zuidema, 1-2-3-4 hen, 1 ckl, 1 pen.

GOLDEN WYANDOTTES—Jarvis Doris, 1 hen, 1 ckl.

BLACK WYANDOTTES—Joe Bourrema, 1-2-3-4 hen.

PARTRIDGE WYANDOTTES—Gerhard Pieczyuski, 4 cock, 2 hen, 2 pit, 3 pen; William Hofs, Grand Rapids, 2 cock; H. S. Nobel, 1-3-5 cock, 1-3-4-5 hen, 1 ckl, 1-2-3-4 pit, 1-2 pen.

WHITE ORPINGTONS—C. A. Keefer, 1 cock, 1-2-3-4 hen, 1 pen.

BUFF ORPINGTONS—C. A. Keefer, 1-2 cock, 1-2-3-4 hen, 1-2 ckl, 1-2-3-4 pit, 1-2 pen.

BLACK ORPINGTONS—Jacob Achterhoff, 1 cock, 1-2 hen, 2 ckl, 1-2-3-4-5 pit, 1-2 pen; Wm. Seastrom, 1 ckl.

R. C. RHODE ISLAND REDS—O. E. Hawley, Ludington, 1 cock, 2 hen, 2 ckl, 4 pit, 2 pen; Arthur De Baker, 2-3-4-5 cock, 1-3-4-5 hen, 1-3-4-5 ckl, 1-2-3-5 pit, 1-3-4 pen.

S. C. RHODE ISLAND REDS—Hill & Willoughby, Grand Rapids, 1 cock, 1 hen, 1-2 ckl, 2-3-4-5 pit, 1 pen; O. E. Hawley, Ludington, 3-4-5 ckl, 2 pen; Arthur De Baker, 2 cock, 1 pit.

S. C. WHITE LEGHORNS—Ryan Bolthuis, 1-2 cock, 2-3 hen, 1-2 ckl, 4-5 pit, 1-5 pen; James Wilkins, Ludington, 1 hen, 4 ckl, 3 pit, 3 pen; Garret Hoeker, 4-5 hen, 3 ckl, 1 pit, 2 pen; John Olson, 5 ckl, 2 pit, 4 pen.

R. C. WHITE LEGHORNS—C. D. Vos, 1-2

Harnly's Quality White Orpingtons World's Champions

Won Championship White Orpington male two years in succession, on different males (these cocks now head two of my best pens). Championship White Orpington male, Chicago Coliseum Show, December, 1914, (defeating the 1914 and 1915 Madison Square Garden first prize winners). Grand Championship White Orpington male at Panama-Pacific International Exposition (competing with the whole world).

At the World's Fair Won the Highest White Orpington Honors

Grand Championship White Orpington male, American Poultry Association medal, California White Orpington Club special, first prize pen (five birds taking first prize, no other White Orpington breeder had more than one bird win first place), second hen (55 competing), 2nd and 7th pullet, 3rd cock (one only competing) won in each class I competed.

From September 1st, 1914, to September, 1915, won 127 premiums at big shows, 44 first prizes. Some magnificent stock for sale. Start right this season. Get bred-to-lay stock that will produce winners. **EGGS**—Book your orders now so that you will not be disappointed.

FERTILITY GUARANTEED. FREE CATALOGUE.

REWARD OFFERED—At San Francisco my registration books, containing the addresses of hundreds of visitors interested in my exhibit, to whom I had promised catalogs, were stolen. Any help in the regaining of this property will be rewarded.

Mrs. J. H. Harnly, 2304 Elisha Ave., Zion City, Ill.



QUEEN KATHERINE III
A winning Boston Pullet, 1916

Grand Champion IVANHOE

Has proven his title by winning 1st Cock, Shape Special and Champion Male at Boston, 1916. In competition with 90 Barred Rock males shown by 25 exhibitors (4 more birds than the entire open class at Madison Square Garden this season). Three places on cockerels, two places on pullets, four places on pens. This, with **Grand Champion Cock**, makes us the highest or largest winner in these three classes.

At Madison Square Garden, three first prizes and best display in competition with international winners on Single Comb Brown Leghorns.

A few eggs for hatching. Send for new mating list.

GROVE HILL POULTRY YARDS
Box 555, Waltham, Mass.

WM. E. BRIGHT, Prop.

F. G. COOK, Supt.

Hubbard's Buff ORPINGTONS

Winners at Madison Square Garden and Pittsburgh, Jan. 1916, and winners at all of the largest shows in the United States in the hands of my customers. If you want quality birds that win, get the Hubbard Strain. Hatching eggs at reasonable prices. Write for mating list.

C. H. HUBBARD, Mgr., FOXHURST FARM, Box 52, LIME ROCK, CONN.

WHITE WYANDOTTES

We won at Bridgeton, N. J., November, 1915, 1st and 3d cock, 1st and 3d hen, 1st and 4th cockerel, 1st and 2d pullet, and 2d pen, two large silver cups for best display of Wyandottes. Also Philadelphia, Baltimore and Pittsburgh winners. Our birds are big winter layers, with records of 200 eggs and over; free range stock in the finest condition. Eggs from all pens, including all of our Philadelphia and Bridgeton winners, \$2 per 15, \$5 per 50, and \$8 per 100. Chicks from the same pens \$5 per 25, \$9 per 50 and \$18 per 100. A good hatch and safe arrival of chicks guaranteed. Send for free catalog.

CARR BROTHERS CELTIC POULTRY FARM

Box R.

VINELAND, N. J.

DAWDY'S DARK CORNISH

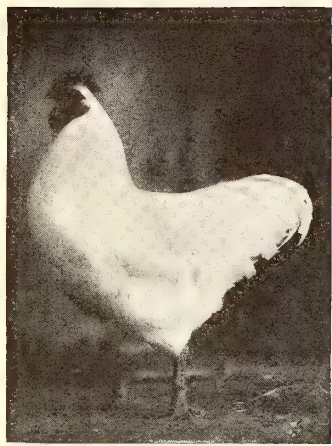
Won First Prize Pullet, Chicago, December 1915; St. Louis, November 1915. 1st Cock and 2nd Hen, 1st and 3d Pullet, 4th Cockerel. Young and old stock for sale. Real Cornish type. Satisfaction guaranteed. Write today. **DAWDY & DAWDY, Box M, Greenville, Ill.**

McLean's Single Comb Rhode Island Reds

Nonpareil Strain. Grand Palace: 1st hen and shape special, also 5th pen. At Springfield: winner of 1st display cup. At the great Waterbury-Hartford show: Winner of Rhode Island Red state cup of America. **MATING LIST NOW READY. S. G. McLEAN, SOUTH GLASTONBURY, CONN.**

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SPECIAL OFFER
To place this book in the hands of breeders of Poultry, I will mail it free of charge to any address. After reading it if you do not find it is worth many times the price asked you may return it at my expense. **PRICE, \$2.50**



1st and Champion White Rock Cockerel,
Boston, 1916.

At the Pre-eminent show of America, held at
Boston, 1916, our

Wh. Plym. Rocks

Made a most wonderful record in one of
the strongest classes ever shown. This
record win tells its own story.

1-2-3-4 Pullet; 1-4-6 Cockerel;

5-6 Hen 2-4 Pen

Champion male and best display. Our circular
gives matings and prices free on request.

W. F. HAYWARD WESTBORO, MASS.

Quality White Wyandottes

72 Winnings this Season

I can furnish you with high grade
stock and eggs at reasonable prices.
Book egg orders now. Chicago's
largest breeder of White Wyandottes.

M. F. MARTIN

3859 Park Avenue CHICAGO, ILL.

NIAGRADOT

Berlin, Ont., Jan. 7th, 1916.

Dear Mr. Marshall:

Am ready for eggs now. Can by past
experience expect winners for early fall
shows. Won 1-2 cock, 1-2-3 hen, 1-2
cockerel, 1-2-3-4 pullet; best cock in
show and many specials.

A. S. UTTELY.

BUY BIRDS OR EGGS AND DO

LIKEWISE.

Catalog free. Eggs, Exhibition, \$5.00;

Utility, \$2.00.

Marshall & Marshall

Niagara Falls, Canada Box J

WHITE WYANDOTTES

Silver Wyandottes

"There is Money in Silvers"

I WILL SELL EGGS \$3.00 for 15
\$5.00 for 30

I have a splendid lot of big, open laced birds—
splendid layers. Also can spare a few high class
show birds. Correspondence invited.

HENRY STEINMESCH ST. LOUIS, MO.

WARD'S CHAMPION DARK CORNISH

(Exhibited as Ward & Chilver)

score the most remarkable victory in Cornish
history at the Palace, New York, show, De-
cember, 1915; 631 points for best display to
nearest competitor's 330. For further infor-
mation about this great victory and price
list, write

John W. Ward Jr., Box 7, Pennington, N. J.

cock, 1-2-3-4 hen, 1-2 ckl, 1-2-3-4 plt, 1-2
pen.

S. C. BLACK LEGHORNS—Louis Zuidema,
1 cock, 1-2-3-4-5 hen, 1 pen.

S. C. BUFF LEGHORNS—John Borger-
ding, 1 cock, 1 ckl; Garret Hoeker, 1-2-3-4
hen, 3 ckl, 4-5 plt, 1 pen; H. H. Baker, 1-2-3
plt, 2 pen.

EXHIBITION S. C. BROWN LEGHORNS
—John Portenga, 1 cock, 1-2-4-5 hen, 1 plt,
1 pen; C. Fykema, 3 hen, 1-2-4 ckl, 3-5 plt,
2-3 pen; Peter Wiener, Wyandotte, 2-4 plt;
Louis Zuidema, 3 ckl.

S. C. BROWN LEGHORNS—C. Dykema,
plt-bred 1-4 hen, 1-2 ckl, 1-2-3 plt, 1 pen;
John Portenga, 1 cock, 2-3-5 hen, 2 pen; C.
Dykema, ckl-bred 2-3-5 hen, 1-2 ckl, 2-4-5
plt, 2 pen; John Portenga, 1 cock, 1-4 hen,
1-3 plt, 1 pen.

BLUE ANDALUSIANS—P. Essenberg, 1-2-
3-4-5 hen, 1-2 ckl, 1-2-3-4 plt, 1 pen.

SPECKLED SUSSEX—C. A. Keefer, 1-2-3
hen, 1-2 ckl, 1-2-3-4 plt, 1 pen.

PARTRIDGE COCHINS—Jarvis Doris, 1-2-
3-4 hen, 1 ckl, 1 pen.

HOUDANS—Wm. Hoffs, Grand Rapids, 1
cock, 5 hen; Frank Krause, Ludington, 2
cock, 1-2-3-4 hen, 1 pen.

ENGLISH RED CAPS—Louis Zuidema,
1-2-3 hen.

S. C. BLACK MINORCAS—Wm. Vander-
molen, 1 cock, 1-2-3 hen, 3 plt, 1 pen; Ben
Brondyke, 1 ckl, 1-2-4-5 plt, 2 pen.

S. C. MOTTLED ANCONAS—Dick Bron-
dyke, 1 cock, 4 hen, 1-3-4-5 ckl, 1-3-5 plt, 2
pen; Joe Bouwsma, 2 cock, 1-2-3-5 hen, 2
ckl, 2-4 plt, 1 pen.

LAKENVELDERS—John Demminga, 1
cock, 1-3-4-5 hen, 2 ckl, 2-4 plt, 1-3 pen;
Alfred Meameaux, 2 hen, 1 ckl, 1-3 plt, 2
pen.

AWARDS OF THE APPLETON, WIS., SHOW.

Wm. F. Mueller, Secretary.

BARRED PLYMOUTH ROCKS—W. H.
Eldridge, Plymouth, 1-3 cock, 1 hen, 1 plt,
2 pen; A. A. Myse, 2 cock, 5 hen, 2 plt-bred
pen; Henry Boldt, 4-5 cock, 3-4-5 ckl, 3 plt-
bred pen; Mrs. O. V. Daniels, Antigo, 2 hen,
1 ckl; Heinleben Bros., La Crosse, 3 hen, 4
plt; A. F. Shafkramski, Stevens Point, 4
hen; W. P. Jagow, La Crosse, 2 ckl, 2-5 plt,
1 pen; C. & J. Grassl, 1 hen, 1 ckl, 1 plt;
E. A. Hamilton, Oconto Falls, 2 ckl.

WHITE PLYMOUTH ROCKS—L. C.
Schultz, Greenville, 1 hen, 2 ckl; John G.
Bennetts, Ahlmeek, Mich., 1 ckl, 1 plt.

SILVER WYANDOTTES—M. W. Pease,
Hortonville, 1 cock, 1 hen, 2 ckl, 2-3 plt;
W. M. Kimball, 2 cock, 3-4-5 hen; Louise
Resch, Menasha, 2 hen, 1 ckl, 1-4-5 plt.

WHITE WYANDOTTES—A. J. Shannon,
1-2-4-5 cock, 1-2 hen, 3-4 ckl, 4 plt, 2-3 pen;
A. W. Hoslet, Green Bay, 3 cock, 5 hen, 1-5
ckl; Charles Prei, Waukesha, 3-4 hen, 2
ckl, 1-5 plt, 1 pen; Henry Hendricks, De-
pere, 2-3 plt.

BUFF WYANDOTTES—Mrs. M. L. Smith,
Elderon, 1 cock, 1 hen, 1 ckl, 1-2-3 plt, 1
pen.

GOLDEN WYANDOTTES—J. E. McCall,
Waupaca, 1 ckl, 1-2-3-4 plt, 1 pen.

PARTRIDGE WYANDOTTES—Oneida
Poultry Yards, 1 cock.

BLACK WYANDOTTES—Frank Rodgers,
Marion, 1 ckl, 1-2-3-4 plt; Edward Reardon,
Kaukauna, 1 pen.

S. C. RHODE ISLAND REDS—Joseph A.
Bestler, 1 cock, 4 plt; Matt Rahm, 2 cock;
George Lausman, 1 hen, 1-2-4 ckl, 3 plt, 1
pen; Wm. A. Von Berg, Mosinee, 2 hen, 5
ckl; Edward Nabbeled, 3 ckl; Schaub &
Son, Marion, 1 plt; C. B. Clark, Neenah, 2
plt, 2 pen; Edward Bessman, 5 plt.

R. C. RHODE ISLAND REDS—C. R. Bar-
ker, Oshkosh, 1 cock, 4 ckl, 3 plt; G. L.
Loos, 4 cock, 5 hen, 2-5 ckl, 2 plt, 3 pen;
John Mueller, Fort Atkinson, 5 cock, 3 hen,
1 ckl, 1 plt, 1 pen; Charles Fosse & Son, 1-2
hen, 3 ckl, 4-5 plt, 2 pen; J. B. Parish &
Sons, 4 hen.

PARTRIDGE COCHINS—W. H. Timm,
1-2-3 hen, 1 ckl, 1 plt.

BLACK LANGSHANS—G. N. Spoerl, 1-2
cock, 1 hen, 1-2 ckl, 1 plt.

S. C. BROWN LEGHORNS—Barney Schul-
de, Kaukauna, 1 cock, 3-5 plt; Frank W.
Stumpf, 2 cock, 4 hen; Otto Thiessenhausen,
3 cock, 3-5 hen, 1 ckl, 2-4 plt, 1 pen; Albert
Van Gompel, Kaukauna, 1-2 hen, 4 ckl, 1
plt.

S. C. WHITE LEGHORNS—Otto Meyer,
Greenville, 1 hen, 2 ckl; Ziegler Egg Farm,
2-3-4-5 hen, 4 plt; S. F. Taylor, Waupaca, 1
ckl, 1-2-3-5 plt, 1 pen.

R. C. BROWN LEGHORNS—Oscar Meyer,
1-2 hen; T. W. Ferg, Manawa, 1 ckl, 1-2-3-4
plt, 1 pen.

R. C. WHITE LEGHORNS—Chris Dre-
sang, 1-2-3-4 cock, 1-2-3-4-5 hen, 1-2 ckl,
1-2-3-4 plt, 1 pen.

S. C. BUFF LEGHORNS—Ferdinand
Lashn, 1 cock, 2-4 hen, 1 ckl, 4 plt; Wm.
Mueller, 2 cock, 3-5 hen, 2-3 ckl, 1-2-3 plt,
1-2-3 pen; B. C. Shimek, 1 hen.

S. C. BLACK MINORCAS—J. M. Mans-
sens, Green Bay, 1-2-3-4 hen.

R. C. BLACK MINORCAS—John Wyro,
Kaukauna, 1 cock; Carl Behrendt, Waupaca,
2 cock, 1-2-3-4-5 hen, 1-2-3 ckl, 1-2-3-4-5
plt, 1-2 pen.

R. C. WHITE MINORCAS—Matt Hruska,
1 cock, 1-2 hen; Wm. Sindahl, 1 cock.

S. C. ANCONAS—James Phinnister, West

Depere, 1-3-4 plt; Anton Choudoir, 2-5 plt.

WHITE CRESTED BLACK POLISH—
Wenzel Hasemann, 1 cock, 1-2-3-5 hen; Ed-
ward Amerpohl, Janesville, 2 cock, 4 hen,
1-2-3-4 ckl, 1-2-3-4-5 plt, 1 pen.

SILVER SPANGLED HAMBURGS—Elder
Grove Poultry Yards, Sherwood, 1-2 cock,
1-2-3-4 hen, 1-2-3-4-5 ckl, 1-2-3-4-5 plt, 1-2
pen.

BUFF ORPINGTONS—M. W. Pease, Hor-
tonville, 1-2-3 cock, 1-2-3-4-5 hen, 3-4 ckl,
1-2-3-4-5 plt, 1-2 pen; Fred Krinky, Be-
loit, 1 ckl.

BLACK ORPINGTONS—Otto Ploetz, Ma-
nawa, 1 hen, 1 ckl, 1-2-3 plt, 1 pen.

S. C. WHITE ORPINGTONS—Otto Moss-
holder, 1-2 cock, 1-2-3-4-5 hen, 1-2-3 ckl,
1-2-3 plt, 1 pen.

DARK CORNISH—Clifford Morse, Shioc-
ton, 1 hen, 1 ckl, 1-2 plt.

SICILIAN BUTTERCUPS—J. Phinnister,
West Depere, 1 ckl, 1 plt.

Juvenile Department.

S. C. RHODE ISLAND REDS—L. & C.
McCarter, 1 cock, 1 hen, 1 ckl, 1-2-3-4 plt, 1
pen; Roy Marston, 2 ckl; Allan Gallagher,
3 ckl; Edward Junge, 5 plt.

S. C. WHITE LEGHORNS—Nick Dresang,
1 ckl, 1-2-3-4-5 plt, 1 pen.

WHITE WYANDOTTES—Carl Holtz, 1
cock, 1-2 hen; Francis O'Connor, 3 hen; Al-
bert Shimek, 1 ckl, 1-2-3-4 plt.

S. C. BUFF LEGHORNS—Earl Kromer,
1-3 hen; Edward Junge, 2-4 hen; Allan
Fletcher, 1 ckl, 1 plt.

BARRED ROCKS—Clarence Boldt, 1 cock,
1 hen, 1 ckl, 1-2-3-4 plt; Carl Koepke, 1
hen; Clifford Vanderheid, 2 ckl, 5 plt.

SILVER CAMPINES—Leo. Brown, 1-2
hen, 1 ckl, 1 plt.

AWARDS AT MARION, O., SHOW.

E. Sargent, Secretary.

BARRED ROCKS—T. O. McClure, 1 cock,
1 hen, 4 plt; C. N. Thurston, 2-3-4 ckl,
1-2-3 plt; Phil Haberman, 2 cock, 3 hen;
W. B. Corson, Delaware, 2-4 hen, 1 ckl.

BUFF ROCKS—Elizabeth Black, Bremen,
2 plt; Mrs. F. Shew, Forral, 1 ckl, 1 hen,
3 plt; Earl Sargent, 1 cock, 1-4 plt.

WHITE ROCKS—J. L. Berringer, 1 pen,
1-2 cock, 1 ckl, 1-2 plt, 1-2-3 hen.

SILVER LACED WYANDOTTES—E. J.
Knauss, 1-2 ckl, 2-4 plt, 2 pen, 1-2-3 hen;
W. H. Harrington, Caledonia, 3 cock, 4 hen,
1-3 ckl, 1 pen, 1-3 plt.

R. C. RHODE ISLAND REDS—C. L.
Helsel, 2 cock, 2 plt, 1 pen; E. A. Bunnell,
Nevada, 4 ckl, 2 pen; Joe Pfeiffer, Meeker,
1 cock, 2 ckl, 1-3 plt; L. L. Noll, 1-3 ckl,
1-2-3 hen, 4 plt.

S. C. RHODE ISLAND REDS—J. P. Sei-
man, Kenton, 1 ckl; Paul Smith, Upper San-
dusky, 1 cock, 2-3 ckl, 1 hen, 1-2 plt, 1 pen.

WHITE ORPINGTONS—Uncapher and
Smith, 1 ckl, 1 plt; Roy Garver, Caledonia,
4 ckl, 2-3 plt, 4 hen; E. G. Holverstott, Ken-
ton, 1 ckl, 1-2-3 hen; Charles Key, Caledonia,
2-3 ckl, 1 pen.

BLUE ORPINGTONS—D. Landis, Caledonia,
1 pen.

BUFF ORPINGTONS—Leibendorfer and
Hoffman, Delaware, 1-2 cock, 1-2 hen, 1-2
ckl, 1-3 plt, 2-3 pen; R. W. Turner, 2-4 plt,
1 pen.

BLACK ORPINGTONS—Gus Melvln, 1
cock, 1-2 ckl, 1-2 hen, 1-2 plt, 1 pen; Chas.
Key, Caledonia, 4 ckl, 3 plt, 2 pen; E. Mc-
Quiston, 3 ckl; H. B. Sims, 4 plt.

DARK CORNISH—W. H. Siegfried, 1-2
cock, 1-2 hen, 1-2 plt, 1-2 pen.

BLACK JAVAS—Russell Crum, Caledonia,
1-2-3 plt.

WHITE WYANDOTTES—L. F. Fisher,
Bucyrus, 1 hen, 1 ckl, 1 pen.

BUFF WYANDOTTES—L. A. Hiss, Dela-
ware, 1 ckl, 1 plt, 1 pen.

WHITE FACE BLACK SPANISH—F. S.
Layton, 1 cock, 1-2 hen, 1-2-3-4 plt, 1 ckl.

S. C. BLACK MINORCAS—F. S. Layton,
1 cock, 1-2-3-4 plt; J. Berry, 1 ckl, 1-2 hen.

S. C. ANCONAS—Earl Sargeant, 1 hen,
2 ckl, 2 plt; F. S. Bader, 1 ckl, 1-3-4 plt.

GOLDEN CAMPINES—Miss Bess McCaus-
land, Prospect, 1 ckl, 1-2-3 plt.

SILVER CAMPINES—Phil Haberman, 1
cock, 2 ckl, 1 plt; M. S. Lawler, 1 pen; Chas.
Teidel, Kenton, 1 ckl, 1-2-4-5 hen.

S. C. WHITE LEGHORNS—C. R. Cun-
ningham, Delaware, 2 cock, 1-2 hen; W. E.
Craven, 1 cock, 3 ckl, 3 plt; F. M. Bender,
1 ckl, 1-2 plt; John Schmidt, 2 ckl, 4 plt; Miss
Bess McCausland, Prospect, 4 ckl.



Buff Chochin Bantams

The strain that won a reputation for
us--will do the same for you.

15 Eggs \$3.50. Circular free.

MRS. ADELAIDE C. WAINRIGHT
Department J. RED BANK, N. J.



CHICKS 8c to 15c

Rocks : Leghorns

Money back for dead ones as far as
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EASTERN NOTES.

By P. K. WHITE.

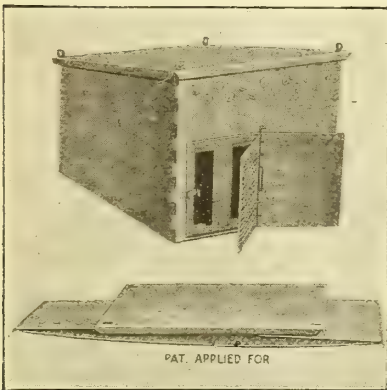
Those of our readers who know Mr. W. H. Saart of Attleboro, Mass., will, I am quite sure, be very much distressed to hear of his wife's death, which took place a few weeks ago, after a very short illness.

She was a woman who took the greatest of interest in her husband's affairs and but a short time before her death she completed arrangements to move to their farm at Foxboro, so that they could devote more time to the poultry end of their various interests. She was a lovable woman, and to know her was to like her. Always full of merriment, so that to be dull in her presence was an impossibility.

Her death has caused a very sad blow to her family and many friends. She has departed, but the memories of her and their 26 years of happy wedded life will ever be with my friend, Mr. Saart.

In our February issue on page 323, showing a picture of 1st cock S. C. R. I.

Collapsible COOPS



The above illustration shows Coop Open and Closed.

Provide a HOME for Your CHICKS

Perfectly sanitary and rat-proof. Write for particulars. Agents wanted.

Whitmore Mfg. Co. - Galva, Ill.

BUTTERMILK

Semi-Solid for Poultry or Pigs

Makes hens lay more and better eggs. Saves the lives of little chicks. Buttermilk, aside from the food value, keeps the bowels regulated and the chick in a perfect state of health which other feeds fail to do.

Buttermilk condensed to a "thick, jelly-like product," eliminating 84 pounds of water from every 100 pounds of buttermilk. You only pay freight on 16 pounds instead of 100. It is 98% digestible. The "Ideal Food" for little chicks and pigs.

Approximate Analysis

Protein 18%, Carbohydrates, (milk sugar) 21%, Ash or salts 4%, Lactic Acid 4%, and Fat 3%.

Write for Full Particulars and Prices

CONSOLIDATED PRODUCTS CO.

Dept. C 1029 W. Adams St., Chicago, Ill.

Red, it is stated that this bird was bred by Rock Ledge Farm, Southboro, Mass. This is an error; they are the owners, but did not breed same.

The same is true with the 4th S. C. White Leghorn shown on page 322, owned by Willow Tree Poultry Farm (McKean Bros.), Beverly Farms, Mass.

On page 516 of our March issue is shown a picture of a prize Barred Rock winner, owned by W. W. Carpenter, East Providence, R. I. Thru error it was stated he was a great grandsire of Santee. This should be Tantalizer, 1st cockerel, Boston, 1916.

CORRECTIONS.

The 3d prize Single Comb Buff Leghorn pullet at the Grand Central Palace Show, 1915, was won by Glenwood Poultry Yards, 30 Glen Road, Rutherford, N. J., instead of Glenwood Poultry Farms, West Caldwell, N. J.

An error was made in last month's issue in the caption under the White Rock male owned by P. J. Olle, Racine, Wis. In this number Mr. John Grant and Mr. Olle were both given credit for winning 1st cock in the White Plymouth Rock classes. Mr. Grant won 1st cock and Mr. Olle 1st cockerel. We are glad to make these corrections at this time.

In our report of the Chicago Coliseum Show in the January issue we neglected to mention the fine win made by Houston & Hofius, So. Charleston, Ohio, in the Red Sussex classes which was in detail as follows: 2 cock, 1-4 hen, 1 chl, 1 pit, 2 old pen, 2 yng pen.

There was also an error made in regard to the photo of the Golden Campine male appearing on page 437 same issue. This particular specimen won 1st cock at the last Madison Square Garden Show instead of 1st cockerel as stated under the photograph. This was not the bird that won 1st at the World's Fair, San Francisco, 1915. The winners referred to above are all owned by Martling Hennyery, P. O. Box 186-N, Ridgefield, N. J.

Correction of caption under cut of Columbian Wyandotte cockerel of Leo A. Lee, page 434 of the March issue. This should read: 1st prize Columbian Wyandotte cockerel at the World's Panama-Pacific Exposition, San Francisco, November, 1915. Owned by Leo A. Lee, 5626 Wilson Ave., Chicago, Ill. This bird was on exhibition only at the Greater Chicago Show, January, 1916; it being another cockerel of Mr. Lee's that won 2nd prize at this show.

An error was made in the March issue in the ad. of H. L. Rikhoff, Occidental Bldg., Indianapolis, Ind. This should have read Single Comb Brown Leghorns instead of White.

Page 563, same issue, Chas. McClave was given credit for winning 1st cockerel in Rouen ducks, Chicago January Show. Mr. B. M. Owens, Shiloh, Ohio, won 1st cockerel, while Chas. McClave won 2d.

PREPARE FOR WAR
on the DRONES! Install

"Ideal" TRAP NESTS

Show which hen laid the egg. Easily used where others are impossible. Write NOW for prices and proof to

F. O. WELLCOME, Box J, YARMOUTH, ME.

Stock and Eggs for Sale

from our prize winners at all the leading shows.

White Crested Black Polish
White Silkies
Black Cochins Bantams
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Plain White Polish Bantams

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Send for FREE booklet—"Repairing and Building" for full information concerning our products.

BIRD & SON, Established 1795
35 Neponset Street East Walpole, Mass.

LAYWELL WH. WYANDOTTES

Bred for Vigor, Laying ability and exhibition quality. Pens mated by Arthur G. Duston. Made clean sweep at the Vermont State Fair, 1915.

Eggs from pens 1-5.....\$5.00 per 15
6-11.....2.00 15

Utility Matings \$1.00 per 15; \$5.00 per 100.

Send for new circular and mating list.

LAYWELL POULTRY FARM
Box A Lyndonville, Vermont, U. S. A.

THE BIRDS THAT LAY AND PAY

BLACK Langshans

As in previous years we have again made a wonderful win at Boston, 1916, 1st hen, 1st cockerel, 2d cock, 1st pen. On White Langshans, one entry, and won 1st pen. Tell us what you want, we can supply you at prices that are right.

IVES, IVES and IVES, GUILFORD, CONN.

THE FAVORITE
LEG BANDS

Six Sizes

WITH RAISED FIGURES

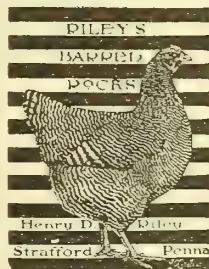
Made from Aluminum, strong, durable, smooth edges.

THE CAPITAL

PRICES, EITHER KIND:
12 for 15c. 25-25c. 50-40c. 100-65c.

CHAS. L. STILES

232-J N. 3rd St. COLUMBUS, OHIO Adjustable



Whenever you see the
"Bars" think of Riley's
Rocks--Barred of course

Riley's Barred Plym. Rocks

Eggs for Hatching—Season 1916

Have you placed your orders for eggs to hatch your winners for the coming year? I have the best pens I have ever mated up, headed by winning birds that have produced some of the big winners the past season. My eggs are the best that you can obtain anywhere and you positively get my best. I sell Baby Chicks. Be sure and send for my mating list.

Henry D. Riley, Box B Strafford, Chester Co., Pa.

Spangled Wyandottes

The newest variety of the ever-popular Wyandottes. This is the coming breed. They have the merit to make them one of our most popular breeds within a short time. Start right by getting a string of blue ribbons now while winning is easy. They won at Panama Exposition and Chicago, 7 firsts and 2 championship ribbons in 8 entries. Eggs for sale. Also some fine pairs and trios.

L. COOK, Originator

OAKVILLE, IOWA

MINORCAS Giant Strain S. C. BLACKS

Have again proven their superiority at Chicago, Cleveland and Indianapolis. Present day mating list of real Minorcas of the present day winning type. Large, pure white eggs that DO hatch.

JOHN L. BROWN

1515 W. 7th Street

ANDERSON, IND.

Banks' S. C. Reds

Winner A. P. A. Gold Medal

Best Cockerel, Harrisburg, Pa., Dec., 1915

Satisfaction guaranteed.

Send for Mating List.

M. H. Banks, Dillsburg, Pa.

Rockdale
White Plym. Rocks

Better-Bred Eggs \$3.00 for 15.

DEYO'S, Station 1, Dodgeville, Wis.

Monmouth Day-Olds

Get Baby Chicks that are backed by a record. Monmouth S. C. Buff Leghorns were unrivalled at Madison Square Garden. Awarded 1st Cock, 2nd Hen, 1st, 3rd and 4th Cockerel, 1st and 3rd Pullet and Best Display. April hatched pullets will make early fall layers. The cockerels will make ideal June broilers.

S. C.
BUFF

LEGHORNS

S. C.
WHITE

"The Twentieth Century Dual-Purpose Fowl"

Monmouth Leghorns are quick growers, vigorous and hardy. They thrive in all climates. Noted for heavy egg production. Secure Baby Chicks and Hatching Eggs from these prize-winning strains. Write now for price and mating list.

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N. Y. Office, 103 Park Ave.

Monmouth Farms

John Lockwood, Supt.
Box 23, FRENEAU, N. J.

LAYBILT S. C. WHITE "Made-in-America" Leghorns

LARGE—GREAT LAYERS—PURE WHITE

STRONG DAY-OLD CHICKS—now \$12.00 per 100. Discount 500 or over. Guaranteed delivery alive and lively. Hatch every week. **SELECTED HATCHING EGGS, \$1.00-15; \$5.00-100.** 90% fertility guaranteed. The most for the money. Circular. **EVERFRESH EGG FARM - Box A - IONIA, MICH.**

BABY CHICKS

from Morse's White Leghorns assure good luck. They live and lay. Selected hatching eggs. 187 eggs per hen last season in flocks of 1000 each. Our birds won wherever shown. Free illustrated catalog describing plant and stock; giving egg and show records, and information for beginners

RUFUS MORSE : : BELDING, MICHIGAN

Three Firsts—Five Seconds—Three Thirds—Three Fourths—Three Fifths
Our 1915-16 Combined Winnings, Chicago and Madison Sq. Garden—Home-Raised Birds.

Eggs, Baby Chicks, Breeding Stock, **Rankin's Reds** Will Help You

WRITE FOR THE FINEST MATING LIST OF THE YEAR

SCHENLEY HEIGHTS POULTRY FARM, Box 8, Commonwealth Bldg., PITTSBURGH, PA.

Barred Rocks, Black Langshans, Light Brahmas

Over 60 prizes won this season at 4 leading Ohio shows, including the Forest City Exposition and Cleveland Winter Show. Eggs for hatching from our finest exhibition matings, \$2, \$3, and \$5 per setting.

MOORELAND POULTRY FARMS - MENTOR, OHIO

DAY-OLD CHICKS and HATCHING EGGS

From standard bred, free range flocks of Barred, White, Buff Rocks—Silver, White, Buff Wyandottes—S. C. Rhode Island Reds—S. C. White Leghorns—Silver Campines. Will have 3000 chicks for sale, and ship only strong, vigorous, healthy chicks that will mature true to variety. Write for Prices.

PLAINFIELD HATCHERY : Box B : PLAINFIELD, ILLINOIS

Hansen's Buttercups

Eggs from first pen, every bird a prize winner, \$5.00 per 15. Eggs from utility pens, every one headed by a prize winner, \$2.00 per 15, \$10 per 100. Write for mating list.

DR. M. A. HANSEN - OSAGE, IOWA

Whitecrest Farm S.C.W. Leghorns and W. Wyandottes

Our winnings at the Cleveland Show, January, 1916—Cup for best display Leghorns; cup for best display of W. Wyandottes; cup for best display in the Mediterranean class. Also cup for best cock, hen, cockerel and pullet in W. Wyandottes. Twelve times winners of best display at Cleveland. Stock and eggs. Circular free.

H. C. & C. W. SIXT - WEST PARK, OHIO

AMERICAN DOMINIQUE

America's Oldest Fowl won at Old Glory Show, Boston, 1916. 2d and 4th cock, 1st and 2d hen, 1-2-3 cockerel, 1-2-4 pullet. Write for prices on stock and eggs.

C. W. BESSE - JEFFERSON, MAINE

Increase your egg production 100%. Read advertisement on page 655.

WINNINGS OF A. P. J. ADVERTISERS.

Quincy Poultry Farm, Quincy, Ill., S. C. White Leghorns at Quincy, Ill., 1915: 1-2 hen, 3-4 pit, 1 pen; champion female of show. On S. C. R. I. Reds at Burlington February 1-5, 1916: 3 ckl, 2-4 hen. On R. C. R. I. Reds at Quincy, 1915: 2 ckl, 2 pit, 1 pen. At Illinois State Fair, 1915: 2 cock, 5 ckl, 1 pen. On White Wyandottes at Quincy, 1915: 2-3 cock, 1-2 ckl, 1-2-3-4 pit, 1 pen. At Chicago, 1915: 1 hen.

J. C. Fishel & Son, Box J, Hope, Ind., White Wyandottes at Indiana State Fair, September 6-11, 1915: 1-2-3 cock, 1-3-5 hen, 3 ckl, 1 pit, 1-2 yng pen, 1-3 old pen. At Kentucky State Fair, Louisville, Ky., September 13-18, 1915: 1-3 cock, 1-3 hen, 1-2 pen. At Illinois State Fair, Springfield, Ill., September 20-25, 1916: 1-2 cock, 1 hen, 1-3 ckl, 2-3 pit, 5 yng pen, 1 old pen. At Great St. Louis Fair, St. Louis, Mo., October 2-7, 1915: 1-2 cock, 1-2 hen, 2-3 ckl, 1-2 pit, 1-2 pen. At Panama-Pacific Exposition, San Francisco, Cal., November 16-25, 1915: 2-4-5 cock, 1 hen, 2-6 ckl, 4 pit, 2-5-6 pen; championship for the best White Wyandotte female in show.

John W. Ward, Jr., Box 7, Pennington, N. J., Dark Cornish at the Palace New York, December 7-11, 1915: 1-3-4 cock, 3 hen, 2-5 ckl, 2-5 pit, 2-5 pen, best display, best male and other specials. Judge Charles T. Cornman.

W. H. Ward, Nickerson, Kans., Light Brahmas at Arkansas Valley Show, January 3-7, 1916: 1-2 cock, 1-2-3-4 hen, 1-2 ckl, 1-2-3-4 pit, 1 pen, best pen of Brahmas and best cock bird in show, American class excepted. Judge W. Southard. At Kansas State Show, January 10-15, 1916: 1-2 cock, 1-2-3-4 hen, 1-2 ckl, 1-2 pit. Judge Card.

Red Feather Farm, Box 100, Tiverton 4 Cors., R. I., R. C. R. I. Reds at Providence December, 1915: 1-2-3 cock, 1-2-3 hen, 1-2-4 ckl, 1-2-3 pit, 1 pen, shape on cock and hen, color on cock and pullet and gold specials. In S. C. R. I. Reds: 4 cock, 1 hen, 2 ckl, 5 pit, 2 pen, shape special. On S. C. R. I. Reds at Madison Square Garden, December 31st, 1915-January 5th, 1916: 1 hen, 1 pit, prize and shape special on hen. In R. C. R. I. Reds: 1-4 hen, 4 ckl, 1 pit, 2 pen, 2d display, color and shape special. On R. C. R. I. Reds at Boston, 1916: 1-4-5 hen, 1-3-6 ckl, 4 pit, 2 pen, shape and color special. On S. C. R. I. Reds at Boston, 1916: 4-6 cock, 1 hen, 3 pen, shape special.

S. H. Andrews, 208 2nd St., Mineola, N. Y., S. C. Black Orpingtons at Syracuse, N. Y., Jan., 1916: 2-4 pit. At Mineola, N. Y.: 1-2 cock, 1-2 hen, 1-2 ckl, 1-2 pit, 1 yng pen, 1 old pen. At Brooklyn, N. Y.: 1-3 hen, 1-2 ckl, 1-2 pit; special for best ckl. At Grand Central Palace, N. Y.: 3 hen, 3 ckl, 3-5 pit, 3 pen.

Orchard Farm, Noroton Heights, Conn., S. C. Rhode Island Reds at Brooklyn, N. Y., Nov., 1915: 2-4-5 cock, 1-2-4-5 hen, 2-4 ckl, 1-2-5 pit, 1 yng pen, 1-2 old pen; special for best display. On R. C. Rhode Island Reds: 1-2 cock, 1-2-3-5 hen, 1-5 ckl, 1-2 pit, 1 yng pen, 1-2 old pen; special for best display, best cockerel in the show. Judge, Lester Tompkins.

C. H. Leitner, R. F. D. No. 4, Elgin, Ill., S. C. Buff Leghorns at Rochester, N. Y., Jan., 1916: 2 cock, 3 hen. Judge, Nixon.

Dr. M. A. Hansen, Osage, Iowa, Sicilian Buttercups at the Greater Chicago Show, Jan., 1916: 2 ckl, 3-4 pit. Judge, Dr. Clark. At Milwaukee, Wis., Jan., 1916: 1 cock, 1 hen, 2 pit, 2 ckl; two specials. Judge, J. C. Johnston.

L. C. Brackett, Hopkins, Mich., Speckled Sussex at Greater Chicago Poultry Show, January, 1916: 5 ckl, 1 yng pen. On Red Sussex, 4 cock, 3 pit. At Detroit Show: 1 ckl, 1-2 pit. On Campines at Detroit Show: 1-3 hen, 3 ckl, 1 pen.

S. G. McLean, So. Glastonbury, Conn., S. C. Rhode Island Reds at the Waterbury-Hartford Show, 1916: 1-2 cock, 3 hen, 1-4 ckl, 1-4 pit, 2 pen; special for best display, shape specials and R. I. Red State cup. Judge, L. W. Bean.

Barred Rocks—At Boston, 1916, we entered 2 birds and won 1st PULLET, also 4th Pullet bred cockerel. This wonderful win, and there were 10 exhibitors. Stock and eggs, just like these winners. **Beard Brook Poultry Farm Wakefield, Mass.**



Mount Air Farm WHITE ORPINGTONS

MAKE ANOTHER REMARKABLE RECORD—Great Round-Up at Detroit Show, February, 1916

Winning 1st and 2d Hens; 1st and 3rd Pens; 1st, 2nd and 3rd Cockerels; 1st, 2nd 3rd Pullets; 3rd and 4th Cocks. Grand Silver Cup, best display all Orpingtons competing. Silver Cup, Heaviest Male in whole show. This, along with our winning at great Hagerstown Fair, proves our strain have the high exhibition quality so much desired. Eight Grand Matings containing our winners. Send for Mating List.

C. B. WOLFE, Proprietor

POWELL, OHIO

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ANCONAS.

ANCONAS—BOTH COMBS. Stock for sale at a bargain. Eggs in season. J. H. Van Dever, Tiffin, Ohio. 3-5

PRIZE WINNING S. C. Anconas. Laying and exhibition qualities combined. Dr. Gilbert's Ancona Yards, Melrose, Wis. 3-5

ANCONAS—WINNERS. Augusta, Columbia and Sumter. Eggs, \$1 to \$5 per setting. Incubator lots \$5 per 100. Ninety per cent fertility guaranteed. Epperson Ancona Yards, Sumter, S. C. 3-5

MILLER'S ANCONAS WIN anywhere. Trapped for egg production. Eggs and chicks reasonable. Catalog free. M. L. Miller, Johnstown, Pa. 2-4

SINGLE COMB ANCONAS. Sheppard strain. Stock, eggs and baby chicks. Prices low. Miss L. L. Garvin, Rural Box 36, Wheeling, W. Va. 2-5

SHEPPARD'S STRAIN ANCONA EGGS from free range stock, \$1.50 per 15. Edw. W. Meyer, Laurenceburg, Ind., R. 2, Box 28. 2-5

BRED TO LAY AND WIN Single Comb Anconas. Grand type and color, large, vigorous, dark birds, descendants from Sheppard's 2nd pen, cocks all have record of dams laying over 222 in one year. Eggs \$2, \$3 and \$5 per 15; utility \$1.50. Mating list free. Satisfaction guaranteed. Walter Jacobs, Box 154, Johnston City, Ill. 4-5

ANCONAS—COCKERELS from marvelous winter layers, \$2.00 each. Hatching eggs. Prices reasonable. H. O. Bernhardt, Sturgeon Bay, Wis. 4

SINGLE COMB ANCONA settings, \$1.00 up. R. B. Watkins, Gaither, Md. 4-6

ANCONAS EXCLUSIVELY—Is your main object eggs, especially winter eggs? Then write for some convincing facts about our strain of these famous egg makers. Stock, eggs, baby chicks. William U. Glover, Sheridanville, Pa. 4

SINGLE COMB ANCONA eggs from vigorous, fine mottled stock, \$2 per 15 eggs. J. W. Grim, Iowa City, Iowa. 2-4

ANCONAS—BOTH COMBS. Blue ribbon winners. Baby chicks. Eggs from trap-nest stock, bred for production, at 5c, 8c and 10c each. J. C. Saunders, Wauseon, Ohio, R. 5. 3-6

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ANCONA EGGS \$1.50 for 15; \$8 per 100. Chicks 25c each. C. G. Miller, Demonstration Farm, South Paris, Me. 4-6

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HIGH CLASS SINGLE Comb Anconas, two yards, \$1.50 and \$1 per 15 selected hatching eggs. Louis Seifert, New Riegel, Ohio. 2-4

S. C. MOTTLED ANCONAS—Leading strain. Eggs from high scoring, heavy laying stock, \$2 per 30. Satisfaction guaranteed. Ethel Matthews, Niles, Mich. 4

SINGLE COMB ANCONAS, heavy layers, hatching eggs, 15 for \$1.25. Progressive Poultry Farm, Interlaken, N. Y. 2-5

ANCONA COCKERELS, Sheppard Strain, eggs in season. F. M. Brooks, Kenton, Ohio. 2-4

BIEHLER'S SINGLE COMB ANCONA setting eggs, \$1.50. Baby chicks, 15 cents. John Biehler, Box A, Strasburg, Ill. 2-5

SINGLE COMB MOTTLED Anconas—Unsurpassed for beauty and profit. Bred to lay, do lay. Good shape and color. Eggs from carefully selected matings, \$2.50 per 15. T. W. Cain, Diana, W. Va. 2-4

ANCONAS BIEHLER'S Strain. Eggs, \$1.50 per 15. J. Wolf, Wheeler, Ill. 2-4

HATCHING EGGS THAT will hatch. Sheppard's S. C. Anconas. High grade birds and egg prices right. Place orders early. A. H. Volberding, Watseka, Ill. 2-4

SINGLE COMB ANCONAS—Dark, well mottled, good type, extra heavy layers. Eggs, 15 for \$2; 30 for \$3.50; 50 for \$5. Satisfaction and safe arrival guaranteed. Mrs. Ella Whitwood, Hudson, Ill. 2-5

ANCONAS—SHOW BIRDS, stock and eggs for sale. George Blencoe, Alma Center, Wis. 2-4

CHAUTAUQUA ANCONAS—Both combs. Eggs and baby chicks. Seventh year. Circulars. William Rathbun, Jamestown, N. Y. 2-4

C. A. KNIGHT, Olena, Ohio, Ancona specialist. Cockerels, eggs and chicks. Free catalog. Unequaled show record. 2-4

ANCONAS—SINGLE COMB. Won 1st, 5th pullet; 4th cockerel, three entries, Missouri State Show, 1915. Trap nested breeders. Eggs, \$2 per 15; three settings, \$5; 100 for \$10. Baby chicks. H. E. Errett, Box A, Nevada, Mo. 2-4

SHEPPARD STRAIN S. C. Anconas—Eggs from prize winners \$1.75 per fifteen. D. C. Hudson, Byesville, O. 3-5

TRAP-NESTED ANCONAS. Bred for eggs. Show winners. James Green, Sellersburg, Indiana. 12-4

WILSON'S FAMOUS ANCONAS—Best Winter layers. Eggs \$1.50 for 15; \$7 per 100. Catalog free. J. M. Wilson, Jonesburg, Mo. 3-4

VANE'S ANCONAS—GREATEST Winter Egg producers. Eggs \$2.50 per setting. W. R. Vane, Momence, Ill. 3-5

I HAVE BRED AND exhibited Single Comb Anconas 8 years, winning 1st prizes at St. Louis, Mo.; Terre Haute, Ind.; Springfield, Olney, Peoria, Robinson, Kankakee and Newton, Ill. Eggs from special mating containing 1st pen, Kankakee, \$3 per 15. From utility breeders, \$1 per 15; \$5 per 100. P. E. Gregoire, Newton, Ill. 3-5

DR. FOQUET'S FAMOUS Champion Strain Anconas. Winners at the leading shows. Both combs. 100 choice cockerels. Egg list now ready. Dr. J. H. Foquet, Oil City, Pa. 3-5

S. C. ANCONAS. Sheppard's famous strain, farm range, best stock. Eggs, \$1 per 15; \$4 per 100. Mrs. Jerry Brinker, Mt. Erie, Ill. 3-5

SHEPPARD'S WORLD renowned Anconas, the birds that all Anconas are judged by. See display ad inside front cover. H. Cecil Sheppard, Box M2, Berea, Ohio. 11-15 1 yr

GRUBE'S SINGLE COMB Anconas—Silver cup winners, South Charleston, Dayton and Springfield, O. Great egg strain. Eggs from selected matings \$1.50 per 15. G. P. Grube, Route 3, Springfield, O. 3-5

PRIZE-WINNING, WINTER-LAYING Anconas—Single Comb birds of excellent quality. Winners at Springfield and St. Louis. Eggs \$5 per 100; 2 settings \$2. Stock for sale. Cress Hill Farm, Hillsboro, Ill. 3-4

HAWLEY'S SINGLE COMB Anconas are winners again. Write about stock or eggs. Satisfaction guaranteed. C. L. Hawley, Montrose, Colo. 3-5

ANCONA EGGS FOR hatching from great layers. Dr. J. E. Berry, Powhatan Point, O. 3-5

ANCONAS—"SHEPPARD STRAIN" eggs now for sale from prize winners and heavy layers. Prices reasonable. Pearl Hart, Mt. Victory, O. 3-5

ANCONA SINGLE COMB eggs for hatching, from farm range stock; two settings for \$3. Carl Ebert, Whittemore, Ia. 3-5

S. C. ANCONA hatching eggs. Sons and grandsons of Lady Washington 289 egg, mated to Cecil Sheppard strain, 256 egg. Prices \$5, \$7.50 and \$10 per 100. Willow Brook Farm, E. B. Bergen, Harlingen, N. J. 3-5

ANCONAS—HIGH CLASS—line bred. Prices moderate. Stock, eggs. Mrs. W. B. Kent, Coatesville, Pa. 3-5

BUSEY'S ANCONAS—WINNERS at Chicago and Illinois State Fair. Mating list free. Allen Busey, Urbana, Ill. 2-4

OUR SINGLE COMB Anconas win—their parents won; it runs in the family. Hatch winners. Get our mating list. G. A. Bell, Carnegie, Pa. 3-5

CREDE'S SUPERIOR S. C. Anconas—Winners at both Chicago's big shows. Chicks and eggs for sale. Send for folder. Wm. Crede, 670 Slade Ave., Elgin, Ill. 3-5

ANDALUSIANS.

QUALITY ANDALUSIANS—Both combs. Stock and eggs. San Francisco Winners. L. A. Taylor, Gibsonburg, Ohio. 2-4

PURE BLUE ANDALUSIAN, bred from true blue prize stock for years both for true markings and large white eggs. Am booking orders for eggs. First pen, \$2.50; second pen, \$1.50 per fifteen eggs. Gustave Kneussl, Ottawa, Ill. 2-5

ANDALUSIAN EGGS for sale from prize winning stock. Allena Streitenberger, Chillicothe, O. Route 8. 3-5

PRIZE-WINNING BLUE Andalusians—Stock and eggs for sale. Dr. J. H. Foquet, Oil City, Pa. 3-5

DOLLAR FIFTY FOR FIFTEEN Blue Andalusian eggs. Post paid. L. Leavitt, Smithfield, Ill. 3-5

ANDALUSIANS—CANADIAN—English egg strains. Eggs, 15, \$1.50. Fertility guaranteed. J. Brasser, Lewiston, N. Y. 3-5

ANDALUSIANS—WINNERS AT National shows. For color, type, size and utility purposes unexcelled. Eggs, \$5, \$3, \$1 per 15. L. C. Boggs, Box 17, Bloomington, Indiana, Route 9. 3-5

COUNCILL'S BLUE ANDALUSIANS. Won twice as many first prizes at Madison Square Garden, Hagerstown, Grand Palace, Syracuse and Buffalo Club Show during 1915 as all competitors combined, besides 30 specials. Eggs \$2.50 per 15. V. H. Council, Warrenton, Va. 2-4

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S. C. BLACK MINORCAS—Farm raised and vigorous. Better prepared than ever to furnish stock, eggs and baby chicks of superior quality. Prices reasonable. Write J. D. Primm, Athens, Ill. 3-5

SEVENTEEN ROSE COMB Black Minorca eggs \$1 per. Paul Wagner, Clayton, Mo. 3-5

BLACK MINORCA PRIZE Winners; farm bred; the big egg kind; a few good ones for sale. Booking eggs, 15 for \$2.50. Also Buff and White Leghorns. H. F. Kidder, Goshen, Ind. 3-5

SINGLE COMB BLACK Minorca eggs from large, strong stock. Good type, heavy layers, large eggs. Cockerels. H. H. Wallis, Delavan, Wis. 4-6

MINORCAS—SINGLE COMB Black. Day-old to six weeks chicks. Eggs. Catalog, stamp. Failing Poultry Farm, Lafargeville, N. Y. 4-6

DEYO'S MINORCA FARM—Single Comb Black Minorcas. Bred exclusively 20 years. Heavy layers. 15 eggs \$1.50; \$7 per 100. B. C. Deyo, New Paltz, N. Y. 2-4

S. C. BLACK MINORCAS—Eggs, 15 for \$1.50. Fred B. Raber, York, Pa. 4

SINGLE COMB BLACK Minorcas—Large, excellent colored birds. Write for catalog. L. C. St. John, Haynesville, O. 4-6

PAUL'S EXTRA CHOICE yearling, to eight overweight hens, eggs \$2 for 15; pullet pens, \$1.50. Type and color guaranteed. Cockerels. T. D. Ewing, Smith's Grove, Ky. 4-5

S. C. BLACK MINORCAS—Great layers of large white eggs. \$1.25 for 15, prepaid. E. D. Lockwood, So. Westerlo, N. Y. 4-5

S. C. BLACK MINORCAS. Eggs that hatch, from Chicago winners, at reasonable prices. Satisfaction guaranteed. Write at once. Mrs. Tella E. Watts, West Concord, Minn. 4

SINGLE COMB BLACK MINORCAS—Eggs for hatching from exhibition stock that has only lost first once in three years' showing. Northrup Strain. Send for mating list. J. L. Burgwin, Coats, O. 3-5

SINGLE COMB BLACK Minorca eggs for hatching at reasonable prices. M. C. Cross, Joliet, Ill. 3-5

EXTRA LONG BODIED Single Comb Black Minorcas. Chicks after March 15th at 10 to 20 cents each. Eclipse Minorca Farm, Port Trevorton, Pa. 3-5

CHAMPION S. C. BLACK MINORCAS—Winners at Madison Square, Palace, Philadelphia, Hagerstown, Atlanta, Memphis, Augusta. Eggs from five small, choice, all-star matings, each headed by Madison Square or Hagerstown prize males. Write for circular. R. H. Anderson, Lynchburg, Va. 3-5

CLARK-NORTHUP STRAINS R. C. B. Minorcas. Lay lots of big white eggs. Hatching eggs a specialty. \$5.00 per 100. Chicks for May delivery, \$14.00 per 100. Illustrated catalog free. April chicks all sold. Willow Brook Egg Farm, West Berne, N. Y. 2-4

BLUE GRASS STRAIN Single Comb Black Minorcas; large vigorous stock; bred for quality and heavy egg production. Good hatch guaranteed. Orders filled promptly. Eggs, 15 for \$2; 100 for \$8. Leon Salisbury, Waynesville, O. 3-5

ROSE COMB BLACK Minorcas exclusively (Northrup Strain); 15 eggs \$1.50; \$7 per 100. J. R. W. Deyo, New Platz, N. Y. 3-5

SINGLE COMB BLACK Minorcas—Eggs from stock of highest quality at reasonable prices. F. J. Truby, Lombard, Ill. 3-5

SINGLE COMB BLACK Minorcas. Eggs for sale from our prize winning and utility pens; also a few choice cockerels. W. E. Mansfield, 3411 Lafayette St., St. Joseph, Mo. 2-4

CHAMPION ROSE COMB Black Minorca—Show winners. Order eggs early. Reliable Poultry Farm, Springfield, Minn. 3-5

R. C. BLACK MINORCA eggs. Circular free. Show winners. Jay Folger Beswick, Berea, O. 2-4

ROSE COMB BLACK Minorcas exclusively. Stock and eggs for sale. Beller's Minorca Farm, Killbuck, Ohio. 1-4

SINGLE COMB BLACK MINORCAS, good shape, size, color. Cockerels, pullets, large egg laying strain. H. H. Wallis, Delavan, Wis. 1-4

S. C. B. MINORCAS—12 years' experience. Quality of stock a specialty. Choice cockerels for sale. Eggs for hatching. Address John H. Beachy, Middlebury, Ind. 2-4

ROSE AND SINGLE COMB Black Minorcas of highest quality. Cockerels from best exhibition stock. Orders for hatching eggs booked now at reasonable prices; fertility guaranteed. New York and New Jersey Poultry Farms, Orangeburg, N. Y. 2-4

SINGLE COMB BLACK MINORCAS—Large, heavy birds, good color, type, carriage, heavy layers large white eggs. 15 for \$2; 30 for \$3.50; 50 for \$5. Satisfaction and safe arrival guaranteed. Mrs. Ella Whitwood, Hudson, Ill. 2-5

S. C. BLACK MINORCAS, blue ribbon winners big Canton Show. Eggs and stock for sale. R. A. Kintz, 1952 Market Ave. S., Canton, Ohio. 2-4

SINGLE COMB BLACK Minorcas. Hatching eggs from heavy laying stock. \$1.00 per \$15; \$5.00 per 100. Frank L. Miles, Dundee, N. Y. 2-4

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WHITE MINORCAS. Both combs. First prize winners wherever shown. Eggs for hatching. Mrs. James Osborne, Fabius, N. Y., Box J. 3-5

WHITE MINORCAS—Madison Square champions. Harvey Teetz, Gloversville, N. Y. 3-4

ROSE COMB WHITE MINORCA Eggs. Limited number of settings. Reasonable. A. L. Prichard, Mannington, W. Va. 2-4

RICHLAND POULTRY YARD, Waynesville, N. C., Single Comb White Minorcas exclusively. Cocks, cockerels. Eggs, \$2.00 per 15. 2-4

WHITE MINORCAS, both combs. Prize winners at Wisconsin State Show. Write. F. W. Schmidt, Princeton, Wis. 2-4

MEISELBACH'S SINGLE and Rose Comb White Minorcas winning again in the hands of our customers the most blue ribbons this season. Stock and eggs. Harry Meiselbach, Melrose Park, Ill. 2-4

SINGLE COMB WHITE Minorca eggs for hatching at \$2 per 15 or \$3.50 per 30. Louis Watermann, New Bremen, O. 3-5

SINGLE COMB WHITE Minorcas—Beautiful birds. Good layers of large white eggs. Eggs \$1.50 per 15; \$4 per 50; \$7 per 100. E. H. Wisen, Homer, Neb. 3-5

SINGLE COMB WHITE Minorcas. 16 years a breeder. Old and young stock. State what you want. Harry Leibold, Delaware, O. 3-5

HUMMEL'S STRAIN Single Comb White Minorcas. Martin Koch, Wadesville, Ind. 4

SINGLE COMB WHITE MINORCA eggs, \$1.50 per 15; \$2.50 per 30. Fred C. Hacke, Lone Tree, Ia. 4

ROSE COMB WHITE Minorcas. Winners at the Chicago Coliseum Show, December 10-15, 1915. Won 1-2-3 pullet, 1-2-4 cockerel. No old stock shown. Few fine cockerels for sale. Eggs for hatching. E. Fetzner, Melrose Park, Ill. 2-4

OUR WHITE MINORCAS cannot be excelled. See display ad. Thos. Brogden, Box C, Rush Lake, Wis. 2-4

ROSE COMB WHITE MINORCA Eggs, from blue ribbon winners at Panama-Pacific Exposition and St. Louis Coliseum shows. C. E. Miller, Jerseyville, Ill. 2-4

SINGLE COMB WHITE Minorca eggs for hatching, from large two-year-old hens. Largest eggs of any breed. W. E. Rice, Spartansburg, Pa. 2-4

PETERSON'S SUPERB WHITE Minorcas, great layers. Silver cup winners. Wm. Almon Peterson & Bro., Galesburg, Ill. 2-4

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BUFF MINORCAS. The real thing. We originated and standardized them. 4 firsts, 4 seconds, 8 specials World's Fair. Lindgren Bros., Kingsburg, Cal. 3-5

BUFF MINORCAS — Meadowgold strain. John L. Thomas, 64 Mill St., Binghamton, N. Y. 3-5

S. C. BUFF MINORCAS. Only 2 pens mated, both headed by first prize Chicago winners. Eggs, \$5.00 per 15. E. Schmidt, Hazelrigg, Ind. 2-4

BUFF MINORCAS—Eggs \$5 per 15. Pen direct from California. All infertile eggs replaced free. Hacker Poultry Co., Marissa, Ill. 4-6

BUFF MINORCAS. Lindgren Bros. strain. Herman Elke, Chaska, Minn. 4-5

BUFF MINORCAS, GOLDEN strain beats them all. Stock and eggs. Circular. William Williams, 1102 W. 52d, Los Angeles, Cal. 4-6

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FOR SALE—S. C. Black Orpington eggs from prize winning stock, \$3 per 15 eggs. C. F. Lauterbach, Jr., Box 123, Petersburg, Va. 3-5

QUALITY STRAIN SINGLE Comb Black Orpingtons. Eggs from three choice matings \$3 and \$5 per 15. Grand breeding cockerels for sale. O. M. Brown, Box G, Slater, Iowa. 3-5

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50 EGGS \$3. WELDAY'S 200-egg Black Orpingtons. 15 eggs guaranteed to produce winners at any show, \$3. Cockerels, hens. Startling catalog. Welday, Seville, O. 3-5

S. C. BLACK ORPINGTON eggs. Heavy laying strain. Limited number of settings; \$3 per 15. F. F. Stevens, Canaan, Conn. 3-5

BLACK ORPINGTON eggs, \$1 per 13, from fine large birds. H. Merriam, Ashburnham, Mass. 3-5

FOXHURST STRAIN S. C. Black Orpington hatching eggs, \$3 for 15. H. F. Johnson, 1 Boardman St., Worcester, Mass. 4

SACRIFICE SALE OF BLACK Orpingtons—utility and exhibition. Foxhurst Farm and Rose strains. Closing out to devote full time to pastorate. Write for prices. Hatching eggs. Rev. Charles M. Kreidler, Elmira, N. Y. 4

BUFF ORPINGTONS.

MARTZ STRAIN BUFF Orpingtons. Eggs, \$1.50 for 15. Choice pullets, \$2.00 each. Cockerels, \$3.00 each. H. P. Chambers, Romeo, Mich. 3-5

SINGLE COMB BUFF Orpington eggs for hatching at 5c each; \$4 per 100. Anna Motry, Kansas, O. 3-5

FOSTER'S BUFF ORPINGTONS—Winners at Chattanooga, Louisville, Chicago Coliseum, Indianapolis. Eggs \$2.50. Catalog. G. H. Foster, Bloomington, Ind. 3-5

EGGS FOR HATCHING from grand pens, \$2, \$3 per 15. Cockerels bred from our winners \$2, \$3 each. Wonderful soft, even shade of buff. J. H. Tietz, Girard, Ill. 3-5

BUN'S BUFF ORPINGTON eggs for hatching, \$3 per 15. Frank Bunbury, Niles, Mich. 3-5

BUFF ORPINGTON EGGS—\$1 and \$2 per 15; \$5 per 100. Write for mating list. Mrs. Earl Sutherland, Coatesville, Ind. 3-5

BUFF ORPINGTONS—Buff to the skin. Bred from pen that won 1st at Carbondale. Good layers. A. H. Floyd, Golconda, Ill. 3-4

HEAVY LAYING STRAIN Buff Orpington eggs, \$1.50 per 15. Odithia Farms, Stanley, N. Y. 3-5

GOLDEN FEATHER FARM—S. C. Buff Orpingtons from Cook direct. Large even colored breeders. Eggs 15 for \$1.50; 30 for \$2.75; 50 for \$3.50; 100 for \$5.50. Orders filled promptly. Frank Myers, Oakwood, O. 3-5

BUFF ORPINGTONS, MARTZ Strain—Prize winners. Eggs \$1.50 to \$1.75 per 15. Glen Echo Poultry Farm, 6500 Hamburger, St. Louis, Mo. 3-4

ROSE COMB BUFF ORPINGTONS exclusively. Eggs for hatching from Blue ribbon winners. Arthur T. Schleder, Lena, Ill. 3-5

S. C. BUFF ORPINGTON eggs for hatching. Farm range, \$1.50 for 15. \$6 per 100. A. E. Hulse, Mingo, Iowa. 4-6

SINGLE COMB BUFF Orpingtons—Heavy laying strain. Eggs \$1 per 15. Charlie McGrath, Scioto Mills, Ill. 4-6

TWO PENS BUFF ORPINGTONS. 12 hens and Kaup strain cock bird or 12 pullets and Martz strain cock. \$25 each or \$45 for both. Setting eggs \$1.50 per 15. R. K. Bissell, 14 Scrimgeour Rd., Worcester, Mass. 4

S. C. BUFF ORPINGTON hatching eggs, \$1 per 15; \$5 per 100; from range. Either pen, \$2 per 15; prize winning strains. Mrs. Eldon Luper, Avon, Ill. 4-6

SINGLE COMB BUFF ORPINGTON eggs, \$1.50 per 15; \$2.50 per 30. Fred C. Hacke, Lone Tree, Iowa. 4

SINGLE COMB BUFF ORPINGTONS exclusively; free range stock. Eggs \$3 per 50; chicks, \$3 per 25. Martz Strain. Emile Burnier, Assumption, Ill. 3-5

SINGLE COMB BUFF ORPINGTON egg, from prize winners, 15 for \$3; utility \$1 and \$2. M. H. Williams, Daleville, Ind. 3-5

SINGLE COMB BUFF Orpington—Eggs from our winners at Trenton, \$2.50 per 15; other choice matings, \$1.50 per 15; \$6 per 100. Order early. Last season returned hundreds of dollars to customers for orders we could not fill. Raymond, Anderson, Ravenrock, N. J. 3-5

EGGS FROM \$35 PEN S. C. Buff Orpingtons. \$2 per 15; cockerels \$2 each. J. A. Mayer, Frankfort Heights, Ill. 3-5

BUFF ORPINGTON EGGS—Fertility guaranteed. Cook strain direct, \$1.50 and \$2 setting. Hy Wolfe, Marissa, Ill. 3-5

ROSE'S ORPINGTONS—When buying eggs you want the best. Our American Champion Buff and Black Orpington pens are headed by winning males. Madison Square Garden, N. Y.; Chicago; Coliseum, Boston. \$10 per 15. Guarantee hatch of 10 chicks. Mating list free. Hugh A. Rose, Fonthill, Ont., Can. 3-5

BUFF ORPINGTON EGGS and stock. Indianapolis winners. Big bone type. soft buff. Eggs \$2, \$4, \$6 per 15. Mating list free. E. Wiley, Trafalgar, Ind. 3-5

SINGLE COMB BUFF Orpingtons. Cook and Owen's strain. Choice stock reasonable. August W. Schroeder, St. Peter, Ill. 12

FASHION PLATE BUFF Orpingtons. Martz strain direct. As good as the best. Eggs, \$4.00 per 15. Geo. M. Selfridge, Niles, Mich. 2-4

BUFF ORPINGTONS. Eggs, \$2.00 per setting. W. T. Elrod, Marissa, Ill., Box A. 2-4

BUFF ORPINGTONS. Eggs, \$2.00 per 15, prepaid. Catalog free. Hacker Poultry Co., Box C, Marissa, Ill. 2-4

BUFF ORPINGTONS. Queen quality. None better. 100 eggs \$5.00. Square Deal Poultry Farm, Aurora, Ill. 2-4

S. C. BUFF ORPINGTONS. Cook and Owen's strain. Eggs, \$5.00 per 100. J. Wolf, Wheeler, Ill. 2-4

GOLDEN ROD BUFF ORPINGTON eggs for hatching, from our Peoria, Springfield, Quincy and contest winners, scoring 90 to 95%. Prices reasonable. Ten chicks guaranteed. Mating list free. Richard Seward, Lewistown, Ill. 2-4

BUFF ORPINGTONS. Best colored, winter lays and large boned, low set birds. Granger strain. Imported from England. Prices for both sexes, \$2.00 to \$5.00; \$10.00 for trios. Mrs. Chas. G. Trask, Independence, Iowa. 2-4

GOLDEN CHAMPIONS—BUFF Orpingtons. Winners Dubuque, December, 1915, third, fourth hens, third cockerel, first cock. Circular. H. Armstrong, Greeley, Iowa. 2-4

S. C. BUFF ORPINGTON eggs for hatching. Best at most reasonable price; \$3.00 and \$5.00 per 15. Sylvester Stevens, Marion, Ind. 2-4

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BLUE ORPINGTONS—IMPORTED stock. Mating and price list free. J. J. Armstrong, Farley, Iowa. 3-5

BLUE ORPINGTONS. Extra fine birds reasonable. Rev. W. Berberich, Groton, New York. 11-15-16

WORLD'S FAIR, San Francisco, Cal. 1 cockerel, 1 hen, 2 pullet. Madison Square, New York, 9 birds entered, 7 won. Write Dr. Creath, Ottumwa, Ia., Box A. 2-4

ROYAL BLUE ORPINGTONS of great size and color; two shipments imported from England by myself last spring. Eggs, \$3.00 and \$5.00. Dell Shepherd, Olney, Ill. 2-4

BLUE ORPINGTONS. Imported stock. No better stock for sale. 15 eggs, \$3.75; 30 eggs, \$7.00. Baby chicks, 10 for \$6.00; 20 for \$10.00. Orders booked now. Write, Alex M. Glew, Farley, Iowa. 2-4

BLUE ORPINGTON eggs, \$2.00 per 15, prepaid. Catalog free. Hacker Poultry Co., Marissa, Ill., Box C. 2-4

BLUE ORPINGTONS. Eggs from choice pen, \$3.00 per 15. E. Schmidt, Hazelrigg, Ind. 2-4

BLUE ORPINGTONS—Cockerels. Eggs \$2, \$3 and \$4 per setting. John Unangst, Freeport, Ill. 4-5

DIAMOND JUBILEE ORPHINGTONS.

DIAMOND JUBILEE ORPINGTONS—Direct from Cook's. Eggs \$3 per 15. F. E. Pritchard, Tekonsha, Mich. 3-5

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WHITE ORPINGTONS. Choice pullets, yearling hens and cockers for sale. Prices reasonable. Large, vigorous, farm reared stock. Best strains. Eggs, \$5.00 per 100. Sunnyside Orpington Farm, Sandwich, Ill. 3-5

EGGS—S. C. WHITE Orpingtons (Kellerstrass-Owens strain). We guarantee perfect hatches from our healthy, line bred, Crystal White Orpingtons. \$2 per 15; \$5 per 50. Trouville Poultry Farm, Skillman, N. J., Box E. 3-5

EXHIBITION WHITE ORPINGTONS. Eggs for hatching from my first prize winners at Chicago, Des Moines, Burlington and Ottumwa, 1915-1916. Write for mating list. Mrs. Louis Montague, Box 292, Ottumwa, Iowa. 3-5

SINGLE COMB WHITE ORPINGTONS. Large boned kind. Good layers. Eggs, \$1.50 per 15; \$2.75 per 30. Also Barred Rocks. Circular. Miss Delilah M. Moon, Route 2, Martinsville, Ohio. 3-5

WHITE ORPINGTON EGGS, \$3.00, from prize winners, scoring to 95%. Eight firsts at two shows. Mating list free. N. Roy Bowman, Albany, Wisconsin. 3-5

SINGLE COMB WHITE Orpington eggs from my famous heavy winter layers, \$2.00 per 15; from my exhibition matings, \$4.00 per 15. Satisfactory hatch guaranteed. J. Stokes, Canton, Illinois, Route 6. 3-5

WHITE ORPINGTONS, the heavy winter layers. Eggs from selected stock that is guaranteed to please you, only \$3.00 per 15. Henry Baer, R. 3, Peoria, Ill. 3-5

WHITE ORPINGTON setting eggs, \$1.50 per 15. H. F. Smith, Glen Ellyn, Ill. 3-5

S. C. WHITE ORPINGTONS. Bred from a \$500 pen mated by Kellerstrass, large white, high scoring birds. A. H. Floyd, Golconda, Ill. 3-4

CHICAGO COLISEUM WINNERS. White Orpington stock and eggs. Orpington Farm, Appleton, Wis. 3-5

KELLERSTRASS STRAIN WHITE Orpingtons. Eggs, \$5.00 per 100. Jno. Dupre, Antioch, Ill. 3-5

WHITE ORPINGTONS. Aldrich-Woolery strains direct, mated right. Eggs, \$2.00 and \$5.00 per 15. Supply limited. Satisfaction guaranteed. Clifford Wills, Salt Lick, Ky. 3-5

ALDRICH AND OWEN STRAINS. Cockerels, \$2.00 up. Eggs, \$1.50, \$3.00, \$5.00 per 15. Art F. Linders, Box K 106, Baldwin, Ill. 3-5

SINGLE COMB WHITE Orpingtons. Cook and Owen's strain. Choice stock reasonable. August W. Schroeder, St. Peter, Ill. 12

WHITE ORPINGTONS of quality. "Aldrich" and "SB" strains. Winners Brookfield, Ill., and Hammond, Ind. Cockerels and hatching eggs. Write for mating list. S. B. Brennan, 3140 Irving Ave., Berwyn, Ill. 2-4

S. C. WHITE ORPINGTON baby chicks from trapested flock, 100 for \$15.00; eggs, 100 for \$5.00. Safe delivery guaranteed. Cedarhurst Poultry Farm, H. E. Hussey, Princeton, Ill., R. D. 8. 2-4

WHITE ORPINGTONS. America's best blood strain. 100 eggs \$5.00. Square Deal Poultry Farm, Aurora, Ill. 2-4

SINGLE COMB WHITE Orpingtons, large, heavy, good type, color, heavy winter layers. Eggs, 15, \$2.00; 30, \$3.50; 50, \$5.00; 100, \$8.00. Satisfaction and safe arrival guaranteed. Mrs. Ella Whitwood, Hudson, Ill. 2-5

SINGLE COMB WHITE Orpingtons from Archwood Yards, Sussex strain, great, large, low down, massive type, extremely white, grand winter layers, grow like weeds. Eggs, 15, \$1.50; 50, \$4.00; 100, \$7.00. Lee W. Morgan, Independence, Indiana. 2-4

S. C. WHITE ORPINGTONS, the big winter layers. Eggs, \$2.00 per 15. Gustave Keller, Mountain Home, Ark. 2-4

WHITE ORPINGTON COCKERELS. A fine bunch at \$2.00 and \$3.00 each. Eggs, \$2.00 to \$3.00 per setting. Utility, \$6.00 per 100. Split Rock Poultry Farm, La Salle, Ill. 2-4

WHITE ORPINGTON WINNERS. Best strains. Bargains. Stock, eggs. Mrs. Amos, Kendallville, Ind. 4-6

WHITE ORPINGTON COCKERELS—\$3 to \$5. Fine birds from the pure Aldrich strain of prize winners and heavy layers. Road's End Farm, Highbridge, Mich. 4

WHITE ORPINGTONS—Milwaukee winners. Stock and eggs. Mapleawn Poultry Yards, Alma Center, Wis. 4-6

WHITE ORPINGTONS from one of America's best strains. Must close them out as our time is devoted to White Leghorns. \$36 takes all we have left—seven hens and two cocks. Willow Tree Poultry Farm, Beverly Farms, Mass. 4

SINGLE COMB WHITE Orpington stock. Eggs, \$2 setting; \$10 per 100. R. Gunderson, Egan, S. D. 4-5

SINGLE COMB WHITE ORPINGTON eggs from high scoring, from imported chickens. Rare chance, \$1 for 12. Cockerels, pullets cheap. Pherson, Bainbridge, Ind. 4-6

SPECIAL PRICES on S. C. White Orpington eggs, \$1 per 15; \$5 per 100. Guy Modglin, Metropolis, Ill. 4

QUALITY WHITE ORPINGTONS. Winners wherever shown. Eggs, \$2.00 per 15; \$6.00 per 100. George Layman, Greenville, Illinois. 4-5

SINGLE COMB WHITE ORPINGTONS, from Aldrich and imported strains. 15 eggs, \$1.50; 50, \$4.00; 100, \$6.00. Baby chicks, 25, \$5.00; 50, \$9.00. Sunflower Poultry Yds., Grafton, Ill. 4

R. C. WHITE ORPINGTONS.

ROSE COMB WHITE Orpingtons, favorite fowl; to commend them, they lay in winter when eggs are high. Best table fowl. Hardy, docile, beautiful. Prize winners when shown. My strain has these qualities. Eggs and stock for sale. Frank A. Brassington, Cleveland Heights, O. 2-4

WHITE ORPINGTON HOME. Rose Comb White Orpingtons, best laying and prize strain. Stock and eggs reasonable. Hatch guaranteed. Earl L. Cook, Munnsville, N. Y. 2-4

PARTRIDGE ORPINGTONS.

PARTRIDGE ORPINGTONS. Eggs from first prize Chicago pen, \$5.00; other pens, \$3.00 per 15. E. Schmidt, Hazelrigg, Ind. 2-4

PARTRIDGE ORPINGTONS. Eggs, \$2.00 per 15, prepaid. Catalog free. Hacker Poultry Co., Marissa, Ill., Box C. 2-4

ORPINGTONS.—SEVERAL VARIETIES.

HENS, PULLETS, COCKERELS, cocks \$2, \$3, \$5 and up. S. C. Black and White Orpingtons. Best strains bred from prize winners. Also eggs for hatching \$2 and \$3 per 15. W. F. Gruetzmacher & Sons, Wauertown, Wis. 4

R. C. BUFF AND S. C. BLUE Orpingtons. Won seven firsts at New York Palace and Madison Square. Eggs, \$3 and \$5 per setting. B. C. Roecker, Phillipsburg, N. J. 3-5

EGGS FOR SALE—White Orpingtons, \$1.00 per 15; \$5.00 per 100. Blue Orpingtons, \$1.50 per 15; \$8.00 per 100. From farm raised stock. Ed. Schumann, Madison, Ind. 3-5

ROSE COMB BUFF, Black, White Orpingtons. H. C. Faulkner, Marshall, Mich. 3-5

FOR THE BEST Orpingtons, any variety, send to their originators, William Cook & Sons, Box A, Scotch Plains, New Jersey. Catalog free. 11-15-tf

THINK! EGGS FROM CHOICE pens Buff and White Orpingtons. All breeders trapped-nested. Settings, \$1.60. Gramann, Marine, Ill. 2-4

HENS, PULLETS, COCKERELS, cocks \$2, \$3, \$5 and up. S. C. Black and White Orpingtons. Best strains bred from prize winners. Also eggs for hatching \$2 and \$3 per 15. W. F. Gruetzmacher & Sons, Wauertown, Wis. 4

POLISH.

WHITE CRESTED BLACK POLISH—Eggs from No. 1 stock. Eggs, \$2.00 per 15. Fred M. Haas, Machias, N. Y. 3-5

TWO-FIFTY FIFTEEN Bearded Silver Polish eggs. Postpaid. L. Leavitt, Smithfield, Ill. 3-5

WHITE CRESTED BLACK Polish. Cockerels, \$5.00 and \$10.00. Eggs, \$2.50 and \$5.00. Pullets and chicks upon request. Noah Graybill, Walla Walla, Wash. 2-4

FOR TEN YEARS my White Crested Black and Silver Bearded Polish have won more first prizes at the Chicago shows than all other competitors together. Trios from \$7.00 up. Eggs, \$2.00 setting. Frank Kuskuska, Berwyn, Illinois. 3-5

WHITE AND BLACK POLISH, winners Cleveland, Indianapolis, Colium and Milwaukee. Eggs \$4 for 15. List free. Theo Hewes, Indianapolis, Ind. 4-6

WHITE CRESTED BLACK POLISH won championship at World's Exposition, six gold medals, seven silver medals. Blue ribbon winners from coast to coast. Mrs. Rose E. Knauss, Altoona, Pa. 4

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EGGS FROM SELECT pens of R. I. Reds or Barred Rocks. Write to August Larson, Albertville, Wis. 3-5

S. C. REDS—EGGS, \$1.00 per setting. Fine quality. R. L. Crigler, Covington, Ky. 3-5

MY SINGLE COMB REDS won seven 1sts, four 2nds, three 3rds, three 4ths, two best displays, shape and color on male and female at three shows. Mating list free. Eggs, \$5.00 for 30. Charles C. Morse, St. Charles, Illinois. 3-5

SINGLE COMB REDS. Ten years exclusively. Heavy laying strain. Eggs, pens, \$2.00, \$3.00 per 15; range, \$4.00 per 100. Lela Mahon, St. Peter, Minn. 3-5

ROSE COMB REDS. Eggs for hatching from our blue ribbon pens, \$2.00 per 15, or \$3.50 per 30; utility, \$5.00 per 100. Fertility and a square deal guaranteed. Order from this adv. Brookside Farm, Albion, Ill. 3-5

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SINGLE COMB REDS that are Red. Two pens. Eggs, \$2.00 and \$1.25 per setting of 15 eggs. Utility eggs, \$4.00 per 100. Satisfaction guaranteed. B. B. Walrath, Arlington, Iowa. 3-5

SINGLE COMB RHODE ISLAND Red utility chicks, strong, thrifty ones. March, \$15, April 12, May \$10 per 100. Wm. H. Guile, Norwich, N. Y., Route 2. 3-5

ROSE COMB REDS. Hatching eggs from selected birds. Heavy layers, vigorous, free range flock of splendid type and color. 15, \$1.00; 100, \$5.00. Otto May, Attica, Ind. 3-5

EGGS FROM HEAVY LAYING S. C. Reds. Only a few settings offered. \$2 for 15. F. M. Kaley, Bridgeport, Ill. 3-5

ROSE COMB RED. Eggs for hatching from this year's winners at Chicago, Peoria and Streator, \$2.00, \$3.00 and upwards. Send for mating list. Dr. F. W. Koehler, Peru, Illinois. 3-5

ROSE COMB REDS. Kaufmann and Winheim strain. Large eggs from heavy laying, farm range hens, \$1.00 per 15; \$5.00 per 100. Edward Glendening, Delhi, N. Y. 3-4

MY SINGLE COMB REDS, winners at Evansville, Louisville and Mt. Carmel. Great layers. Mating list free. Philip A. Seifert, Mt. Vernon, Indiana. 3-9

ROSE COMB RHODE ISLAND REDS. Cockerels and pullets for sale. Eggs from three grand matings of Bean bred prize winners. Write for mating list. J. M. Holt, Marshalltown, Iowa. 3-5

TOMPKINS SINGLE COMB REDS, bred for eggs. Strong, vigorous stock. 15 eggs, \$1.00; 50, \$2.50; 100, \$4.00. Albert Bonsall, Salem, Ohio. 3-5

SINGLE COMB RHODE ISLAND Reds exclusively. Eggs for hatching, mated pens, \$2 per setting of 15. Utility flock, \$1 per setting, \$5 per 100. Tompkins strain. Henry Kelting, Martinton, Ill. 3-5

PRIZE WINNERS—WINTER layers, R. I. Reds, stock and hatching eggs. First pen \$5 setting; second pen \$3; third pen, \$2. Write now. Lincoln Poultry Farm, Alexandria, Ind. 4-5

SINGLE COMB REDS—Great laying strain. Beautiful deep red, hardy. White diarrhea unknown. 15 eggs \$1.50; select pen, Bean cockerel \$2. Scott Gilham, Hartford City, Ind. 4

TRAP-NESTED S. C. R. I. Reds, winners at the egg laying contests. Stock and eggs guaranteed. Chicks, 100 for \$20; eggs, 100 for \$7. Sycamore Farm, E. P. Usher, Jr., Mgr., Grafton, Mass. 4

EGGS FROM WINNING pens of R. C. Rhode Island Reds, \$1.50 and \$2 for 15. Chiles' strain Partridge Rocks \$3 for 15. John Wolgast, Danforth, Ill. 4-6

BRED-TO-LAY ROSE Comb Reds, 15 eggs \$1.50. Circular free. Cyrus Butler, Brookville, Pa. 4

S. C. REDS—Fine dark red cockerels \$3. Eggs for hatching. Stock for sale. Send for mating list. Mrs. J. C. Lower, Worden, Ill. 4

OUR BLOOD RED STRAIN Single Comb Reds have that depth of color so much sought after. Big boned long bodied type produced by years of scientific breeding. Trap-nest record in egg production. Winners at principal Western shows. Eggs. Best matings \$5, others \$2, run of pens \$10 per 100. F. L. Reinhart, Ottumwa, Iowa. 4

ROSE COMB RED eggs for you. Fertility guaranteed. Prices right. John Heuser, Depauw, Ind. 4-6

RHODE ISLAND RED EGGS for hatching from the kind that lay \$1.50 for 15. Ben H. Fetrow, Belmond, Iowa. 4

PRIZE WINNERS, WINTER layers R. I. Reds. Stock and hatching eggs; first pen, five dollars setting; second pen, three dollars; third pen, two dollars. Write now. Lincoln Poultry Farm, Alexandria, Ind. 4-5

SINGLE COMB REDS—Fine stock. Cocks, \$2.50; cockerels, \$2.25; pullets, \$1.75; hens, \$1.60. Eggs, \$1 for 15; \$3 for 50; \$5 for 100. Nintzel Bros., Oshkosh, Wis. 3-5

FOOTE'S "RED STRAIN" of S. C. Reds, have the red under color, no smut. Blue ribbon winners. Bred to lay. Eggs \$3 per 15. S. J. Foote, Plymouth, Wis. 4-5

ROSE AND SINGLE Comb Rhode Island Red hens and pullets. Good breeders \$1 and \$2 each. Ben Hayes, Steger, Ill. 4-5

TRAP-NESTED SINGLE Comb Reds. Heavy Winter layers. Eggs \$1.50 for 15; \$7.50 for 100 prepaid. Mrs. Fred Adler, Elgin, Minn. 4

SINGLE COMB REDS a specialty for years. Eggs from extra fine large brilliant red prize winners, heavy layers, only \$2 per 15. Satisfaction guaranteed. P. O. Petty, Sumner, Ill. 4

"LEMBKE'S REDS" known by their winnings. Good as the best. Better than the rest. Safety first. Eggs for hatching—either comb. Anna Lembke, Salt Lake City, Utah. 4-6

SINGLE COMB REDS. Choice stock reasonable. Eggs \$1 per 15; \$4 per 100. Mrs. Fred Schroeder, St. Peter, Ill. 4

BIG SCORED DEEP brilliant R. C. Reds, long back, low tail, yellow legs, nice combs, red eyes. Eggs 25 cents each. Highland Farm, Hedrick, Iowa. 4-6

ROSE COMB REDS. Hatching eggs from 10 quality matings. Fertility guaranteed. Run of first 5 pens, \$5.00 per 15; last 5 pens, \$3.00 per 15. Wilsmere Farm, Gates Mills, Ohio. 4

EVERITT'S STRAIN ROSE COMB Rhode Island Whites. Special prices on eggs and chicks. Also cockerels, cocks. Fredk. Havig, Route 2, Osage, Iowa. 4

SINGLE COMB REDS of highest quality. Beautiful, dark, brilliant red color, of large size, good type. Heavy laying strain. Fine breeding cockerels for sale. Mating list free. G. A. Harper, Batchtown, Ill., R. 8. 3-5

SINGLE COMB REDS of best breeding. Eggs from select pens. Prices moderate. A. A. Truby, Lombard, Ill. 3-5

SINGLE COMB REDS of quality. Settings from pens headed by winners at Greater Buffalo and Rochester shows delivered to your home \$2.00 per setting. Clarence B. Utter, Sayre, Pa. 3-5

OSBORN'S S. C. REDS. Pen 1, Scranton blood, with correct type and rich red color. Eggs, \$3.00. Pen 2, Crowther blood, trapped-nested by me eight years; heavy laying strain. Eggs, \$2 fifteen. Chas. G. Osborn, Bowling Green, Ky. 3-4

SINGLE COMB REDS that are Red to the skin. Special mating, \$3.00 for 15; utility, \$1.00 for 15. Geo. Reiling, Burnt Prairie, Ill. 3-5

UMBARGER'S GARNET REDS made almost a clean sweep at Terre Haute, Indiana, last December in the hottest class of Single Comb Reds ever shown there. Champion male heads best pen. Special prize winners in all pens. Eggs, \$3 and \$5 per 15. Large boned line-bred cockerels, brilliant color, fine type. Satisfaction guaranteed. Russell H. Umbarger, Woodland Home Farm, Westfield, Illinois. 3-5

S. C. RHODE ISLAND Red eggs. \$1.25 setting. Woodland Farm, New Lenox, Ill. 3-5

SINGLE COMB REDS of highest quality. Tock and eggs for sale, at all times. Mrs. Louise Schroeder, St. Peter, Ill. 11

ROSE AND SINGLE Comb Reds, Buschmann strain. Choice stock, reasonable. August W. Schroeder, St. Peter, Ill. 11

IMPERIAL REDS for color. As Red as the finest. 2-4

RHODE ISLAND REDS, both combs. Thompkin, Bean, Grother strains. Seventy cockerels, twenty pullets; \$2.00 to \$5.00. Eggs in season. Free mating list. Write now you want. Z. Turner, Eleroy, Ill. 2-4

S. C. R. I. REDS. Tompkins' and Scran-ton's strain. We have the best lot of young stock we ever raised. Eggs for hatching, \$6.00 per 100. Mapleglen Farms, Jackson Corners, N. Y. 2-4

LARGE, GOOD TYPE, dark brilliant Single Comb Reds, heavy all year round layers. Fine winter layers. Eggs, 15, \$2.00; 30, \$3.50; 50, \$5.00; 100, \$8.00. Satisfaction and safe arrival guaranteed. Mrs. Ella Whit-wood, Hudson, Ill. 2-5

ROSE COMB RHODE ISLAND REDS. Blue ribbon winners at several shows. Eggs for hatching. Four pens mated. Get my 1916 mating list, free to you. Thomas J. Britton, Kentland, Ind. 2-4

IMPERIAL REDS for layers. Egg rates 170 to 274. 2-4

S. C. R. I. REDS. Tompkins' and Scran-ton's strains. Eggs for hatching a specialty; \$1.00 per 15, \$6.00 per 100, \$25.00 per 500. J. S. Bergh, Jackson Corners, N. Y. 2-4

ROSE COMB REDS. Great laying strain. Fine cockerels, hens, pullets, \$1.00 up. Eggs. Circular. Albert Daily, Frankfort, Ohio. 2-4

EGGS FROM RHODE ISLAND REDS scoring up to 93%, \$1.50 per 15. Quality high; price low. Why pay more? A trial order is all I ask. Den Tomlinson, Browns, Ill. 2-4

IMPERIAL REDS for you. The most sat-isfactory strain. War prices on cockerels and eggs. W. L. Miller, German Valley, Ill. 2-4

RHODE ISLAND WHITES.

ROSE COMB RHODE ISLAND WHITES. Eggs, \$2.00 per 15. Fred M. Haas, Machias, N. Y. 3-5

ROSE COMB WHITES. Best laying show strains. Cockerels, \$2. \$3. Eggs, 15, \$1.50; 50, \$4; 100, \$8. Catalog. Col. Warren Rus-sell, Winfield, Kans. 3-5

SHOREWOOD BUSINESS-BRED Rhode Island Whites. Leading trap-nested strain. Pedigreed layers. Records 261, 248, etc. Blue ribbon winners. Both Single and Rose Combs. Chicks, eggs and breeders. Shore-wood Farms Co., Box J, Saugatuck, Mich. 3-5

R. C. RHODE ISLAND Whites. Eggs in season. Fertility guaranteed. L. C. Huber, Batesville, Ind. 2-4

THE GREATEST RHODE ISLAND White farm in the world. Rose and Single Comb. Trios, \$6; pens, \$10. Eggs and baby chicks. Catalog free. Henry Eichelmann, Waterloo, Ill. 2-4

HEADQUARTERS FOR ROSE Comb Rhode Island Whites. I am the oldest breed-er of this breed. Eggs and stock for sale from this wonderful laying strain. Free catalog. C. A. Foster, Colonial Poultry Yards, Akron, Ohio. 4-6

ROSE COMB RHODE ISLAND Whites. At the Rhode Island White Club Show at Louis-ville, Ky., November 22-27, 1915, in competi-tion with best Whites in the world. I won 1st, 2d hens, 1st pullet, 5th cock, 2d pen. Every bird I entered won. Write for mating list. J. T. Patrick, Route 4, North Vernon, Ind. 4

RHODE ISLAND WHITE eggs, \$1.50 per 15. Both combs. Winter layers. John Roth, Morton, Ill. 2-4

IF YOU WANT RHODE ISLAND Whites that always win, get Swift's mating list. White Cochins and Silkies Bantam. W. E. Swift, Waverly, Ill. 3-5

ROSE COMB RHODE ISLAND Whites. Trap-nested stock. Eggs from New York and Panama-Pacific International Exposition winners. Send for mating list. G. S. Bolter, Little Valley, N. Y. 2-4

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BARRED ROCKS. Thompson strain. Choice stock reasonable. August W. Schroeder, St. Peter, Ill. 11

ROSEMOUNT BARRED ROCKS — Ever better; Cleveland first prize winners. Illus-trated catalog now ready. Let's get ac-quainted. Franklin, Pa. 2-7

SPRING CREST BARRED ROCKS. Large farm raised cockerels, \$2 to \$8. Eight years breeding for eggs will improve yields of your flocks. Fifteen eggs, \$2. Walter C. Smith, Spring Crest, Wauwatosa, Wis. 2-4

PARKS' 200 BARRED ROCKS. Some good cockerels for sale. Eggs, 15, \$1.50; 50, \$3.50. Write Ed B. Murphy, Box 4, Carmel, Ind. 2-4

RINGLET BARRED ROCK eggs and baby chicks. Quality stock. Satisfaction guar-anteed. Correspondence solicited. Oliver Thurnau, St. Jacob, Ill. 2-4

HAWKINS' BARRED ROCKS. Eggs, 15, \$2.00; 30, \$3.00. Catalog free. Methodist Minister, Springfield, Ky. 2-4

BARRED ROCK EGGS from special mat-ing that will produce fine exhibition males and heavy laying females. 15 eggs, \$1.50; 30, \$2.50; 100, \$5.00. Order direct from this ad. Riverview Poultry Yards, Yale, Mich. 2-4

BARRED ROCKS. Ringlets. Eggs, 100, \$3.50; 30, \$1.75; 15, \$1.00. E. P. Churchill, Allerton, Iowa. 2-4

DO NOT ORDER BARRED Plymouth Rock eggs for hatching until you see our January folder. It's a revelation. Shows original photographs of breeding pens; prices and guarantee. Write today. Peerless Poul-try Plant, Ogdensburg, N. Y. 2-4

E. B. THOMPSON'S Ringlets direct. Ex-tra choice cockerels, females and eggs, big vigorous stock; bred from winners; best New York winning blood from proven breeders. Have spared neither pains nor money. Wil-liam Huckle, Waverly, N. Y. 2-4

RINGLET PRIZE MATINGS. Eggs, \$2.00 per setting. Rev. W. W. Cole, Angelica, N. Y. 2-4

RINGLET BARRED ROCK Eggs. Stock direct from Thompson, \$2.00 for 15, \$3.50 for 30. Can ship in zero weather without chill-ing. New way of packing. 95% fertility guaranteed. Brookwood Poultry Farm, Cary Station, Ill. 2-4

QUALITY BARRED ROCKS. Eggs from our winners at Illinois State Show, Aurora, and Streator. Both matings. Mating list upon request. Laufer Bros., Millbrook, Ill. 2-4

FOREST HOME FARM PULLET-BRED Barred Rocks. Won 2d cock, 2d cockerel, 2d, 3rd hen, 3d, 4th pullet, 1st pen. Louis-ville show this season. Get eggs or baby chicks from prize winners. Also registered Jerseys and Durocs. W. D. Bean, Prop., Corydon, Indiana. 3-5

BARRED ROCKS—RINGLETS. Thomp-son's winning lines direct. Cockerels, \$3 and \$5 each. Eggs, exhibition matings, \$3 per 15; utility, \$5 per 100. Satisfaction guaran-tee. Circular. F. L. Gould, Table Grove, Illinois. 3-4

BARRED ROCKS. Both matings. Forty females for sale. Eggs from blue ribbon winners, \$3.00. Geo. Sandborg, Galesburg, Ill. 3-5

FANCY BARRED ROCK eggs, \$1.50 and \$2.50 for 15. E. B. Thompson Ringlet strain. Fifteen years experience breeding Barred Rocks. Three prizes Virden show, 1915. J. H. Hart, Thomasville, Ill. 3-5

BARRED ROCKS. Thompson-Holterman strains. Eggs from large, healthy, prize winning and high scoring birds, \$2.50 per 15. Quality and fertility guaranteed. Mrs. J. M. Wales, Springfield, Mo. 3-4

BARRED PLYMOUTH ROCK and White Wyandotte hatching eggs. Heavy laying strains. \$1.50 per 15 eggs. Paul Wilke, 388 Desplaines Ave., Forest Park, Ill. 3-4

BARRED ROCKS — Large bone. Farm range. \$1.50 per 15. Miss Jessie Barclay, Route 3, Macomb, Ill. 4

THOMPSON'S BARRED ROCK eggs for hatching, \$1.50 for 15. Clifford Edgerton, Tunnel, N. Y. 4-6

PURE RINGLET BARRED ROCKS—Eggs from stock direct from Thompson at reason-able prices. C. F. Youngman, Box B, Wau-toma, Wis. 4

BARRED ROCK EGGS from large and splendid laying stock, \$1 per 15; \$4.50 per 100. Also pullets. L. F. Thompson, Hope, Ind. 4-5

BARRED ROCKS—DAY-OLD CHICKS to six weeks chicks. Stock, eggs. Catalog. Faifling Poultry Farm, Lafargeville, N. Y. 4-6

BARRED ROCKS—BRADLEY strain; free range. 15 eggs \$1 prepaid; 100 eggs \$4 not prepaid. Mrs. Ella Hiel, Avon, Ill. 4-5

FIRST BARRED ROCK cockerel in a class of 43 at Boston, 1916, was just one of our many wins. Write for mating list. W. W. Carpenter, East Providence, R. I. 4

BARRED PLYMOUTH ROCKS — Fine stock. Cockerels, \$2.25; pullets, \$1.75; hens, \$1.60. Eggs, \$1 for 15; \$3 for 50; \$5 for 100. Nintzel Bros., Oshkosh, Wis. 3-5

BARRED ROCK EGGS, \$1 per 15; \$1.75 per 30; 10 chicks guaranteed. Won 1st cock-erel, Bushnell, score 92%. Edwin Laux, Bushnell, Ill. 2-5

PARKS' STRAIN, eggs for hatching from healthy, prolific stock in open houses on free range. Chicks hatched in mammoth incubator. Eggs, \$1.50 for 15; \$4 for 45; \$8 per 100. H. W. Taylor, Berlin, Md. 2-4

HEN HATCHED, HEN raised, Ringlet Barred Rocks. Both matings. Eggs that will produce the finest quality exhibition birds, 15 for \$4; 30 for \$7; from farm flock, same breeding, 100 for \$7; all postpaid. Cir-cular and actual photographs free. John Northon, Clare, Mich. 3-5

BARRED ROCKS—Stock and eggs. In-dianapolis, 1914 and 1915, state champion cockerel, 1st pen, 2d pen, 1st cockerel, 1st pullet, 2d and 3d hen. A limited number of birds for sale. Mating lists for eggs on ap-plication. W. H. Goddard & Sons, Orchard Place, Riverside, Muncie, Ind. 4

BARRED ROCKS — GRAND SIZE and color. Clean, narrow barred champions of the South. Memphis and Little Rock win-ners. Both matings. None better. If we don't furnish as good or better quality than higher price breeders — money refunded. Best eggs \$3 per 15. Range \$1.50 per 15. Statler's Poultry Farm, Box 180, Memphis, Tenn. 4

BUY BARRED ROCK eggs from W. L. Robinson, publisher National Barred Rock Journal, Union City, Mich., and be glad. Both matings. Free mating list. 4

SPECIAL BREEDER BARRED Plymouth Rocks, Baker and Green strain. Eggs, \$1.50, \$2 per 15. A. Rodeheffer, New Knoxville, Ohio. 4

BRED-TO-LAY BARRED ROCK. Eggs for hatching. John Watt, Forrest, Ill. 4-6

DON'T LOOK FOR large Barred Rock ad-vertisements. If you want hatching eggs that produce winners and layers, you had better get our circular. Our Barred Rocks have great winning records. Eggs, \$1.50 to \$5.00 per setting. Cockerel line only. Geo. A. Coffman, Rushville, Ill. 4-6

BARRED ROCKS. E. B. Thompson's direct. Eggs from choice matings, \$2 per 15, \$3.50 per 30; range, \$6 per 100. Pullets for sale. Mrs. Leland Redfield, Newark, Ill. 3-5

WINNERS — 270-EGG record. Catalog. W. W. Kulp, Pottstown, Pa., Box 70. 3-5

EGGS FOR HATCHING from bred-to-lay Barred Plymouth Rocks, 200-egg strain, free range, healthy stock, at \$6.00 per 100. Mrs. August Bartels, Elmhurst, Ill., Route 1. 3-5

BARRED ROCKS. Chicks and eggs, from best matings or utility. Write. Wm. Hasse-brook, St. Peter, Ill. 3-5

BARRED ROCKS, direct from Hawkins' sweepstake winners, New York and Chicago. Eggs from best stock in Central West for the money. Safety first, good hatch, safe delivery guaranteed. Prompt shipment. Circular. Eggs, 15, \$1.50; 100, \$6.50; 1,000, \$60.00. B. T. Vice, Waynesville, Ohio. 3-5

BARRED ROCK BREEDERS—Learn more about your variety, subscribe for National Barred Rock Journal, Union City, Mich., issued monthly and devoted exclusively to the Grand Old Breed. 50c a year, 3 years \$1, sample 5c. 3-16-1yr

YORK'S BARRED ROCKS. Pullet mat-ing. Eggs for sale at \$1.50 and \$2.50 per 15. Frank York, Fancier, Ringlets, Ill. 3-5

E. B. THOMPSON'S Ringlets direct. Eggs from my winners at \$3 per setting of 15; 2 settings \$5. Utility, \$1.50 per setting. Send for circular. G. E. Turner, Fisher, Ill. 3-5

E. B. THOMPSON'S Barred Plymouth Rocks, 15 eggs \$2.00. Mating list free. W. H. Settle, Gridley, Ill. 3-5

THOMPSON'S RINGLET STRAIN of Barred Plymouth Rocks, 30 eggs \$2.00; 100, \$5.00. Transportation prepaid. Frank Moore, Madison, Ind. 3-5

HOOVER HOOSIER STRAIN eggs, \$2.00 per 15, from prize stock. River Side Poultry Yards, Plymouth, Ind. 3-5

RINGLET BARRED ROCKS. Farm range. Eggs, well packed, \$5 per 100. Fertility guaranteed. Ade Stevens, Depauw, Ind. 3-4

EGGS—BARRED ROCK. Both matings. Selected pens. Won all first ribbons at Edgerton, 1916. High class competition. \$3.00 per 15. Dr. Blosser, Edgerton, O. 3-5

BARRED PLYMOUTH ROCKS—Pure bred E. B. Thompson's Ringlet strain. 26 eggs, \$1.50; \$4.50 per 100. Address Ben Custer, Route 9, Madison, Ind. 3-5

BARRED ROCKS OF QUALITY eggs from large vigorous birds. \$2.00 per 15. John C. Waldron, Paxton, Illinois. 3-5

AURORA BARRED PLYMOUTH Rock baby chicks, guaranteed to please anyone. 25 chicks, \$3.75; 50 chicks, \$7.50; 100 chicks, \$15.00; 200 chicks, \$25.00. Martin Michelson, 232 5th St., Aurora, Ill. 3-5

RINGLET ROCK EGGS, \$1.25 to \$5.00 per 15; 100, \$5.00. Both matings; two pens direct last spring. V. I. Hostettler, R. 5, Nappanee, Ind. 3-5

PARKS' 200-EGG BARRED ROCKS. Pens headed by sons of 232, 238, 246, 247 and 253-egg hens. 15 eggs, \$1.50; 50, \$4.50. Circular free. Frederick Matteson, 3808 Woodley Lane, Washington, D. C. 3-5

RINGLET BARRED ROCKS. Eggs from birds with great size and quality combined. Special exhibition matings. 15, \$3; 30, \$5. Farm range, 15, \$1.50; 45, \$3; 100, \$6. Mrs. J. M. Kemp, Kenny, Ill. 3-5

EGGS, 100, \$4.50; setting, \$1.00. Mammoth Barred Rocks, weight to 16 lbs. Howard Irvin, Polo, Ill. 3-6

BARRED ROCK EGGS. Prize exhibition and utility stock. Mating list. Photographs. Chas. Morgan, Loda, Ill. 3-5

OHIO'S FOREMOST STRAIN of Barred Rocks. Judges say you must have our strain if you want the finest. Eggs from our best exhibition matings. \$5.00 per setting. Mating list free. Enger's Barred Rock Farm, Station F, Bedford, Ohio. 3-5

E. B. THOMPSON'S RINGLETS direct. Both matings. Farm raised. \$2.00 per 15; \$3.50 per 30. Amos A. Hieser, Dewey, Ill. 3-5

BARRED ROCKS. Bradley strain direct. Snappy, vigorous. E. C. Pendleton, Golden, Illinois. 3-5

BARRED ROCKS. Eggs from a select mating of heavy layers. \$1.75 per 15; \$5 per 50; \$9 per 100. All infertile eggs replaced at one-half. R. E. Frederick, Plymouth, Iowa. 3-5

BLUE PLYMOUTH ROCKS.

BLUE PLYMOUTH ROCKS—The fowls for everybody. Regular egg machines. Winners Panama Exposition, Madison Square Garden, Chicago, Indianapolis. Mating list free. If you want a money maker try Blue Plymouth Rocks. Fishel and Hasselman, Route 11, Hope, Ind. 4-5

COLUMBIAN PLYMOUTH ROCKS.

MY COLUMBIAN PLYMOUTH Rocks have proven the world's best layers and show birds combined; win at the leading shows. Eggs and stock in season. J. M. Jones, Hornerstown, New Jersey. 3-5

CHAMPION HEAVY WEIGHT egg layers. Chicago winners. 15 Eggs \$1.50. Stock for sale. Write your wants. Erwin H. Spencer, Irving Park Sta., Chicago, Ill. 2-4

COLUMBIAN ROCKS. Lay and win. Eggs \$3, \$2 and \$1 per 15. Go. Clotzbah, Goltzy, Okla. 1-4

COLUMBIAN ROCK EGGS—\$2 and \$3 per 15. Book orders now. Satisfaction guaranteed. J. M. Dupps, Sunman, Ind. 4

COLUMBIAN PLYMOUTH ROCKS—Enslin strain. See ad on page 592. 1-16-lyr

GOLDEN BARRED ROCKS.

GOLDEN BARRED ROCKS—15 eggs \$3 or 30 for \$5. A. E. Sitz, Humphrey St., Logansport, Ind. 3-4

WHITE PLYMOUTH ROCKS.

FAIRVIEW POULTRY YARDS. You will be pleased if you buy eggs or stock at reasonable prices of John Matteson & Son, breeders of their famous White Plymouth Rocks, 271 Morgan St., Elgin, Illinois. 3-5

WHITE ROCKS—MY STOCK has been bred for egg production as well as for fancy show points, and prove to be of the best. Eggs, \$1.50 per 15. Stock for sale. Satisfaction guaranteed. R. K. Galebach, R. 6, Manheim, Pa. 3-4

WHITE ROCKS OF QUALITY. Winners everywhere. Eggs at \$1.50, \$2.50 and \$3.50 per 15. Theo. Poole, Box 20, De Witt, N. Y. 3-5

BOWEN'S WHITE ROCKS. The winning kind. Great layers. Three grand pens. Prices reasonable. Thomas Bowen, Queen City, Mo. 3-5

FISHEL WHITE ROCKS. 15 eggs, \$1, \$2; 100, \$5. Gertrude Ottinger, R. 5, Madison, Indiana. 3-5

WHITE ROCKS—FINE birds of great vigor, carefully trap nested. Eggs from choice matings, \$1.50 per 15. W. S. Jennings, Irvington, Ind. 3-5

WHITE ROCK HATCHING eggs from selected stock of exhibition quality. Poor-man's trap nested strain, \$2 for 15. O. R. Phillips, Route 2, Poland, O. 3-5

WHITE ROCKS—Midlothian-Fishel Strain direct. Heaviest layers. Trap nested. Satisfaction guaranteed. Eggs \$2 for 15. B. A. Alderson, Salem, Ill. 3-5

OWEN FARMS STRAIN White Rocks. Breeding cockerels \$3 and \$5 each. Eggs \$3 per 15. O. S. Fowler, Hopedale, O. 3-5

"COLFAX" WHITE ROCKS are generous layers of big, brown eggs—even in Winter. Stock, eggs, baby chicks with the "kick." Catalog. T. F. Richardson, Colfax, Evans-ton, Ill. 3-5

FISHED WHITE ROCKS blue ribbon winners choice stock, breeders and utility. Now booking orders, eggs and chicks. Free catalog. Whiteview Poultry yards, Mishawaka, Ind. 3-5

FISHEL WHITE PLYMOUTH Rocks, direct. Blue ribbon winners under prominent judges. In laying qualities vigor and standard requirement, they will please you. Eggs in season. Booklet free. C. R. Anthony, Millersburg, O. Route 4. 3-5

WHITE ROCK EGGS from trap nested heavy laying strain, \$3 for 15. Fertility guaranteed. Hillview Poultry Yards, Box A, Batesville, Ind. 3-5

PRIZE WINNING, WINTER laying strain White Rocks. Pens mated with Fishel strain. All my cockerels weigh 10 pounds and over, with good combs and shape to win any prize. 15 eggs \$1; 100 for \$5. Hy J. Marquardt, Waterloo, Ill., Route 5. 3-5

WHITE ROCKS, Fishel strain. Choice stock reasonable. August W. Schroeder, St. Peter, Ill. 11

HIGH CLASS WHITE ROCKS. U. R. Fishel strain direct. Eggs of great laying strain. 15 eggs \$1; 50 for \$3; 75 for \$4.50; 100 for \$5, 200 for \$10; 500 for \$25, fresh laid. Cockerels, hens reasonable. Henry Heitkamp, C 91, New Bremen, Ohio. 1-4

WHITE ROCK EGGS from prize winners at leading shows, \$2.00 per 15 delivered. Woodford Poultry Farm, Station M, Cincinnati, O. 2-4

WHITE ROCKS—EGGS from the best of matings, \$3 per 15. Ferd. W. Floyd, Box R, Dillsburg, Pa. 2-4

WHITE ROCKS — HALBACH DIRECT. Matings headed by big winners. Early developing trap nested strain. Flock average 176 eggs. Pullets lay in 4 to 5 months. Hatching eggs with liberal fertility guarantee, \$6 for 100; \$1.50 for 15. Postal brings circular. Snowflake Poultry Farm, Tallula, Ill. 2-4

FOR SALE—WHITE Plymouth Rocks (Fishel Strain Direct.) Eggs \$1 per 15; \$5 per 100. Orders filled promptly. Eggs packed carefully. Grace Eby, Osborn, Ohio, R. R. 4. 4

WHITE ROCK EGGS from best laying strain. \$1.50 per 15; \$6 per 100. Mrs. Gilbert Luyster, Franklin, Ind., R. 4. 4-6

"FISHEL" WHITE ROCKS direct. Farm raised. Prominent winners under prominent judges. In health, constitutional vigor, and Standard requirements they will please you. Eggs, \$2 per 15. Eggs from pens headed by Fishel males, \$3 per 15. Eggs from one special mating of "top-notchers," \$5 per 15. Write me. Booklet free. Plummer McCulloch, poultry judge, Mercer, Pa. 12-15-lyr

WHITE PLYMOUTH ROCKS from Boston and New York Madison Square, 1916. Eggs, chicks or stock. Money back if not satisfied. Write for catalog. Mirimichi Poultry Farm, W. H. Saart, Mgr., Box 100, Foxboro, Mass. 4

WHITE ROCKS—HIGH SCORING, trap-nested. Eggs, 15 per \$1.25. Mrs. W. F. Waltman, Birmingham, Iowa. 4

EUGENIC WHITE ROCKS; fine laying strain, extra large. Eggs, \$1.50 and \$2 per 15. Dr. J. A. B. Srofe, Leesbury, Ohio. 4-6

WHITE ROCK EGGS—A bargain if orders sent during April and May. Write Mrs. Ed. Henderson, Goodland, Ind. 4-5

WHITE ROCKS — MAGNIFICENT stock from hens of 200-egg records. Cockerels, \$5.00; pullets, \$5.00. Eggs from mating of 200-egg hens with son of 301-egg hen, 25c each; \$2.75 per 15; \$13.50 per 100. M. A. Stockley, Winnetka, Illinois. 3-5

WHITE STOCK FARM White Rocks, bred to lay and pay. Flock record, 131 eggs per hen, 1915. Stock for sale. Eggs, \$2.00, 15; \$5.00, 50; \$8.00, 100. White Stock Farm, Morrisville, Ill. 4

WHITE ROCKS—BLUE ribbon winners in every show entered past season. Owens Farm strain. Eggs, \$1.50 and \$2.00 per setting. C. E. Wesner & Son, Windsor, Mo. 4

WHITE ROCK HATCHING eggs. Guaranteed fertile, from Buffalo and Cleveland winners. Pierce & Cushion, Wellington, Ohio. 4

FISHEL WHITE ROCKS. Eggs from prize winners or utility stock. Cornelius Heinfeld, New Bremen, Ohio. 4

WHITE ROCKS—Good breeders, males and females. Eggs for hatching. Guaranteed fertility. Free circular. Hoch & Frederick, Box O, Chambersburg, Pa. 2-4

WHITE ROCKS, FISHEL Strain—Eggs from our prize winning pens and trap nested layers, \$1.50 to \$3 per 15. Send for mating list. Roselawn Poultry Yards, South Bend, Ind. 2-4

WHITE PLYMOUTH ROCKS — "They please where others fail." Eggs, \$3 per 15. Nine chicks guaranteed or orders refilled at half price. Jas. W. Morrissey, 108 W 3d St., Alton, Ill. 2-4

CROCKETT'S WHITE ROCKS line bred stock; dependable layers. Eggs, \$1.50 per 15; \$7.50 per 100. Chicks, \$18 per 100. Crockett Poultry Farm, Bridgman, Mich. 2-4

FOR SALE—CHOICE White Rock cocks and cockerels. Eggs for hatching. E. S. Hess, Kentland, Ind. 2-4

WHITE ROCKS—Fishel direct; fine laying strain; extra large eggs, \$1 for 15; \$3 for 50; \$4.50 for 100. Good percentage fertility guaranteed. George Boye, St. Peter, Ill. 2-4

WHITE ROCKS, Fishel Strain, eggs, \$5 per 100. J. Wolf, Wheeler, Ill. 2-4

HIGH CLASS WHITE ROCKS — Fishel Strain direct; 15 eggs \$1; 100 eggs \$5; 200 eggs \$9; 500 eggs \$22. George Lehmkuhl, New Bremen, O., Box 182. 2-5

WHITE ROCKS FROM famous Felch Strain. Booking settings now. Few fine ones only. Three dollars per setting. Established 1860. Broadwell Strain, Metamora, O., Fulton Co. 2-4

WHITE ROCK COCKERELS. Eggs for hatching. Write for circular. Satisfaction guaranteed. A. S. Lindsey, Hendricks, W. Va. 2-4

BUFF PLYMOUTH ROCKS.

SHAPE, COLOR, PERFORMANCE are characteristic qualities of Lehman's "Premier" Buff Rocks. Broad guarantee with every bird sold. Eggs \$3. Circular. Ed. Lehman, Goshen, Ind. 3-5

HEISER'S ALL-GOLD Strain Buff Rocks of quality eggs, \$1.25 per 15 up; chicks \$2 per dozen. Mating list free. J. A. Heiser, Fisher, Ill. 3-5

BUFF ROCKS—LIMITED number eggs from pens headed by first and fifth cocks at Chicago, 1916. Mating list. F. W. Kramer, Fort Atkinson, Wis. 3-5

BUFF ROCKS—Choice farm raised birds. Eggs \$1.50 per 13. Write C. E. Price, Rochester, Mich. 3-4

BUFF ROCKS—ALL STAR matings. Write today for catalog. E. A. Stouvenel, Savanna, Ill. 3-5

BUFF ROCK WINNERS. 15 eggs, \$1.50. Andrew Huber, Route 5, Seymour, Ind. 3-5

BUFF ROCKS, WINNERS and layers. Great shape, size and color. Cocks, cockerels, hens, pullets, chicks and eggs for sale. Chas. C. Reimohl, North Lawrence, Ohio. 11-4

BUFF ROCK EGGS for sale—From select birds, \$1.50 per 13. Dan Forth, Fenton, Ill. 4

BUFF ROCKS—HIGH class stock with the "Winter egg habit." Order eggs now. Mating list free. Marion Culver, Glencoe, Ill. 4-6

BUFF ROCKS—Winners and layers. Poley strain. Send for mating list. John Cheffer, 558 W. Merchant, Kankakee, Ill. 4-5

ASTLE'S QUALITY BUFF ROCKS will win for you. I can furnish you with eggs from winners at the Greater Chicago, 1916, show, the Chicago Coliseum, Illinois State and Kankakee. Prices reasonable. Write for mating list. Milan C. Astle, Box A, Mokena, Ill. 4-5

PARTRIDGE PLYMOUTH ROCKS.

AMERICA'S PROVEN CHAMPION Partridge Rocks and Bronze Turkeys. See our adv. on page 595. 5-15-tf

RIVERDALE PARTRIDGE PLYMOUTH Rocks won 20 awards in two shows. Eggs from 5 choice pens. Stock for sale. R. F. Schuler, Roann, Ind. 3-5

QUALITY BARTRIDGE ROCKS. Notzger strain. Eggs, \$2-\$2.50 setting. J. F. M. Greene, Hillshoro, Illinois. 3-5

PARTRIDGE ROCKS. Nofstzger strain. Eggs, \$1.50. Baby chicks and stock. Write for mating list. Satisfaction guaranteed. Geo. Miller, Nappanee, Ind. 3-5

PARTRIDGE PLYMOUTH ROCK eggs for hatching. Satisfaction guaranteed. Write for free circular. John Saam, Mohawk, Mich. 2-4

PARTRIDGE PLYMOUTH ROCKS—Won first cock, first, second hen at Quincy; first cock at Chicago; First pen, first, second hen, first, second cockerels, first pullet at Kansas City. Write me your wants. Dr. Statler, Granger, Mo. 2-4

PARTRIDGE PLYMOUTH ROCKS—Eggs from prize winners. Paul Wurtzel, Dept. 5, Freeport, Ill. 2-6

PARTRIDGE ROCKS—Eggs from large, vigorous stock, \$2 per 15; \$3 for 30; \$4 for 50; \$7 for 100. Hez. Kinter, Dillsburg, Pa. 2-4

PARTRIDGE PLYMOUTH ROCKS—Kentucky thoroughbreds. For the best, write Dr. J. Hogan Bray, Greenville, Ky. 2-4

RIVERDALE PARTRIDGE PLYMOUTH Rocks, five pens; won over 40 awards. Eggs and stock. R. F. Schuler, Roann, Ind. 4

PARTRIDGE ROCKS—Winners. Scoring 90 to 94. Mating list free. L. C. Smith, Cushing, Ia. 3-5

WOODWARD'S PARTRIDGE ROCKS will please you. Winners at Madison Square Garden, Allentown, Inter-State Fair, Trenton. Breeding stock. Eggs for hatching. Mating list free. Henry J. Woodward, Newton, N. J. 3-5

PARTRIDGE ROCK EGGS—Extra fine matings. Prices reasonable. H. M. Haerling, Floris, Ia. 3-5

PARTRIDGE ROCKS—Ckls. from prize winning stock, \$3 and \$5 each. Eggs from Partridge Rocks, R. C. Reds and Black Red Games, \$2 per 15. Victor Samp, Hackett St., Beloit, Wis. 3-5

NORTH COUNTRY PARTRIDGE ROCKS—Eggs, \$2 and \$5 per 15. Circular free. A. D. Deibert, Philadelphia, Jefferson Co., N. Y. 4

PARTRIDGE ROCKS—CHICAGO winners. Eggs for hatching at reasonable prices. Cockerels for sale at half price. Satisfaction guaranteed. Write today. Meadowlawn Poultry Yards, Dept D. C., Sand Creek, Mich. 4

PARTRIDGE ROCKS—Good as grows. Beauties. Winners. 15 eggs \$2. Jim Healey, St. Charles, Ill. 4-6

GLENWOOD STRAIN PARTRIDGE Rocks Winners at Boston and Madison Square Garden. Breeding pens and cockerels for sale at prices within reach of everyone. Write for mating list today. Glenwood Farm, West Mansfield, Mass. 4-6

SILVER PENCILED ROCKS.

I MAKE A SPECIALTY of Silver Penciled Rocks. My seventh year. Cockerels from prize winning stock \$3.50 up. Eggs \$2 to \$3.50 for 15. Satisfaction guaranteed. Eugene Ditzler, Davis, Ill. 3-5

PLYMOUTH ROCKS—SEVERAL VAR.

BUFF AND WHITE ROCKS. Eggs at farmers' prices. Buff baby chicks. Rachel Sheppard, Pearl, Illinois, R. 1. 3-6

PRIZE WINNING WINTER laying strain Partridge, White, Buff, Barred Rocks. Eggs \$2.50 for 15; \$4 for 30. J. P. Kraus, Farmington, Minn. 2-4

BUFF AND WHITE Rock cockerels. Eggs in season. Buff baby chicks. Rachel Sheppard, Pearl, Ill., Route 1. 3-5

ROCK BOTTOM ROCK Yards—All breeds Plymouth Rocks. Stock and eggs for sale. Plymouth, Ind. 3-5

RED CAPS.

RED CAPS FROM first prize winners, \$2 to \$10. S. Jones, Church Creek, Md. 3-4

ENGLISH RED CAPS exclusively. Imported and domestic. Fourteenth year. Eggs \$3 per 15; \$5 per 30. Circular free. H. G. Weidenfeller, Mineral Point, Wis. 3-5

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RED SUSSEX. Get our descriptive circular and prices on stock and eggs. Quality the best. Highland Farm, Mt. Carmel, Ill. 2-4

RED SUSSEX EGGS—Prize strain. Two, three and four dollars per setting. Thomas Murdoch, Galesburg, Ill. 4-5

RED SUSSEX EGGS from our blue ribbon winners. Red Sussex Yards, 314 King Ave., Columbus, Ohio. 4-5

RED SUSSEX—FOUNDATION stock imported from England's best breeder and included in the two very choice matings, from which we are offering a limited number of settings at \$5 per 15. Winners this year at Ohio State Show, Dayton, Canton and Wadsworth. Dr. P. S. Goss, Wadsworth, Ohio. 4

RED SUSSEX MATINGS from best imported and American stock. Trios and hatching eggs. No fancy prices. I. Sheldon Tyler, Rome, N. Y. 4

RED SUSSEX EGGS for hatching; quality Mahogany Reds; carefully mated; many first prize winners. Send for descriptive Mating List. Eggs \$5 and \$3 per 15. Zeigler & Eldridge, Plymouth, Wis. 1-6

RED SUSSEX—Importers and breeders; 12 years' experience breeding fancy poultry. No culls in our pens. Eggs two-thirds off. Only \$5 for 15 now. Lauer Bros., Queen City, Mo. 2-4

RED SUSSEX—Greater Chicago and Missouri State Show blue ribbon winners; three grand pens. Eggs \$3 and \$5 per 15. Write for mating list. Fred Landgraf, Marissa, Ill., Box A. 2-5

RED AND SPECKLED SUSSEX—Write for prices on stock. Eggs in 50 and 100 lots. See large ad. Coburn's Red Sussex Farm, St. Clair, Mich. 2-16-tf

RED SUSSEX—We prepay egg shipments and guarantee ten chicks to hatch. Our prices are low, guarantees most liberal, and we claim to have as good as the best Sussex in America—three important considerations. Four pens mated to produce that rich mahogany color. Circular. Walter G. Brown, Ipswich, Mass. 2-4

RED SUSSEX—Eggs and chicks from winners. Mating list now ready. E. B. Stacy, R. 3, Box 107 C, Lansing, Mich. 3-5

RED SUSSEX—At Cleveland on 6 entries I won 5 places. Eggs for hatching. Bert Locke, Oberlin, O. 3-5

"NOBILITY" RED SUSSEX—Dark Mahogany, slate undercolor. Stock and eggs for sale, from first prize winners. L. W. Fowler, Wabash, Ind. 3-5

RED SUSSEX—Write for circular mating list. Sussex Yards, Alma Center, Wis. 3-5

RED SUSSEX—Grand mating. Limited number of eggs for sale, \$5 per 15. Thomas Bowen, Queen City, Mo. 3-5

RED SUSSEX—My mating list ready about January 1st. Write for it. Have imported 20 birds this Fall, which will help make up my pens. W. W. Graves, Jefferson City, Mo. 3-5

SPECKLED SUSSEX.

SPECKLED SUSSEX. Choice stock priced reasonably. Rev. W. Berberich, Groton, New York. 11-15-tf

SPECKLED SUSSEX eggs, \$3 and \$5 per setting. W. T. Elrod, Marissa, Ill., Box A. 2-4

SPECKLED SUSSEX—Eggs \$3 for 15; \$5 per 30; trios, \$12. Madison Square Garden winning strain. Hacker Poultry Co., Marissa, Ill., Box A. 4-6

SUSSEX.—SEVERAL VARIETIES.

SUSSEX EGGS FOR hatching. All varieties, \$3.00 to \$15.00 per setting. Stock for sale. Dr. H. W. Conrad, Hackensack, N. J. 2-4

RED AND SPECKLED SUSSEX—Winners at Forest City Exposition. Catalog free. Chas. Hosmer, Seville, Ohio. 4

FOSTER'S RED, SPECKLED, Light Sussex. America's best expertly mated. Eggs \$3 and \$5. Catalog. G. H. Foster, Bloomington, Ind. 3-5

SPANISH.

FOR SALE—WHITE FACE Black Spanish eggs, 15 for \$1.50; 30 for \$2.50; 100 for \$5.00. Good stock for sale. Louella E. Jaqua, Portland, Indiana. 3-6

WHITE FACED BLACK Spanish stock from silver cup winners, \$2.50 and up. Eggs, \$2 per 15. J. R. Galloway, Elwood, Ind. 2-5

WHITE FACED BLACK Spanish eggs \$2 for 15. A. Moritz, Rahway, N. J. 3-5

BLUE WYANDOTTES.

BLUE WYANDOTTES—Imported direct from England, and exclusive breeder of Blue Wyandottes. Winners at the Panama-Pacific and Madison Square Garden, 1916, shows. Write for catalog. Cloyd C. Rose, Olney, Illinois. 2-4

BLUE WYANDOTTES. DIRECT importer from England. Grand in color, yellow legs. Eggs \$3 and \$5 per 15. Catalog. Frank Hendershot, Stevensville, Ontario. 3-4

BLUE WYANDOTTES—Bred from imported stock. Eggs, \$3.00 for 15. J. A. Gauntt, Vincennes, Ind. 4

BUFF WYANDOTTES.

BUFF WYANDOTTES. Standard bred and carefully selected for fifteen years. Stock and eggs. (National Club member.) Willis Brown, Slippery Rock, Pa. 3-4

BUFF WYANDOTTES—Owens has some good breeding and exhibition stock for sale at reasonable prices. Write your wants. Eggs \$1.50 to \$5 per 15. R. M. Owens, Shiloh, O. 3-5

HARDY FARM RAISED (Thorobred) Buff Wyandottes. Eggs in season. Clara Bodine, Walnut, Ill. 4-5

NOWATA FARM BUFF Wyandottes won everything at the last Erie Show November 22-27, 1915, Pa. Club meet. Silver cup and all special ribbons. Eggs \$2 per 15. Cockerels. R. A. Page, North East, Pa. 3-5

BUFF WYANDOTTES—Eggs from our Chicago winners, \$5 for 15. F. L. Waterman & Sons, Barrington, Ill. 3-5

BUFF WYANDOTTES exclusively. Eggs for hatching \$2 per 15. Jess. R. Parker, Vanceburg, Ky. 3-5

BUFF WYANDOTTES OF QUALITY—Eggs from silver cups winners at \$1.50, \$2 and \$3 per 15. Order from this ad. or send for mating list. Satisfaction guaranteed. William E. Woolley, Sidney, O., Route 5. 3-5

EGGS \$2 PER 15—Netzle's Famous Buff Wyandottes. Stock reasonable. Ben H. Netzley, Martinsville, Ill. 2-4

"GOLDCROFT" BUFF WYANDOTTES—Winners of State Meet Club cup, Indianapolis, January, 1916. Blue ribbons at other good shows. Eggs, \$2 to \$5 per setting. Satisfaction guaranteed. C. R. Montgomery, South Bend, Ind. 4-6

BUFF COLUMBIAN WYANDOTTES.

BUFF COLUMBIAN WYANDOTTES—A handsome new variety. Dr. Harwood, Malone, N. Y. 2-4

COLUMBIAN WYANDOTTES.

COLUMBIAN WYANDOTTES—Eggs from prize winners and utility stock at a living price. Fertility guaranteed. Marshall Jones, Rising Sun, Ind. 3-5

COLUMBIAN WYANDOTTES—Bred to lay. 15 eggs \$1; 100 for \$5.50. Satisfaction guaranteed. Free circular. L. S. Spafford, Martville, N. Y. 3-5

COLUMBIAN WYANDOTTE EGGS—High bred stock. Cockerels from trap nested stock mated to hens that lay. S. M. Watkins, Walnut, Ill. 3-5

COLUMBIAN WYANDOTTES—Hatching eggs from prize winners and layers. R. C. Berkey, Salem, Ind. 2-4

COLUMBIAN WYANDOTTES—My birds won sweeping victory at Panama-Pacific Exposition—first cock, hen, cockerel, pullet. Also made great record Mountain Grove Laying Contest. Free booklet. Book egg orders early. J. O. Speed, 316 Chestnut, Webster Groves, Mo. 2-4

PRIZE WINNING COLUMBIAN Wyandottes. Champion Winter layers. Stock and eggs for sale. Miss M. Doll, Frankfort & Ewing Aves, Louisville, Ky. 4

COLUMBIAN WYANDOTTES that showed their superior quality by winning more first, second and third prizes this season at Chicago, Minneapolis, Winnipeg and Minnesota State Fair, than all my competitors combined. Mating list free. Geo. A. Kersten, Washburn Park, Minneapolis, Minn. 4-16-1yr

COLUMBIAN WYANDOTTES—Michigan's champions; won more blue ribbons at leading state shows than all competitors combined. Type, color and quality. Prices very reasonable. Eggs from six exhibition matings, \$2 and \$3 per 15. Fertility guaranteed. Mating list free. Arthur Schaeck, 605 Rohms Ave., Detroit, Mich. 4

COLUMBIAN WYANDOTTES—Eggs from strong, healthy stock. 15 selected eggs, \$1.25; 100 for \$5. Satisfaction guaranteed. Terrence H. Clark, Dana, Ind. 4-5

GOLDEN WYANDOTTES.

GOLDEN WYANDOTTES—Carefully bred for 23 years. Winners at Chicago, New York and wherever shown. Eggs, \$5.00. Replace infertile eggs. Few fine males. Frank Ward, 27 Nile St., Tiffin, Ohio. 3-5

GOLDEN WYANDOTTES—BEREITER'S Beauties. Infertile eggs replaced. Mrs. Ada Bereiter, Brighton, Iowa. 4-5

GOLDEN WYANDOTTE Breeder 16 years. Eggs \$2 per 30, from best pen. Gerhard Hellman, 1512 Second St., Fort Madison, Ia. 3-5

GOLDEN WYANDOTTES—First cock, first hen, first cockerel, second pullet, first young pen, Cleveland Show, 1916. Cockerels, pullets and eggs for sale. F. C. Liles, Collins, O. 2-4

GOLDEN WYANDOTTE EGGS from pen winners at 5 shows, \$2 per setting. W. F. Burkitt, Benton, Ill. 2-4

GOLDEN WYANDOTTES. Cockerels, chicks, eggs. Mrs. Anna Chase, Centerville, Crawford Co., Penn. 2-4

GOLDEN WYANDOTTES. EGGS for hatching. H. C. Moeller, Wheeler, Ill. 4-5

PARTRIDGE WYANDOTTES.

YOUNG'S PARTRIDGE WYANDOTTES. Champions of Maine. Won every first and special offered at Sanford, Portland and Bangor. Eggs, \$2.00 per 15. B. H. Young, Bar Harbor, Me. 3-5

PARTRIDGE WYANDOTTES, White Wyandotte. Brown Leghorns. Eggs, \$1.25 per 15. Ten. Hill, Ewing, Ill. 4-5

PARTRIDGE WYANDOTTE EGGS—Pens headed by 1st Chicago Coliseum cock and Wisconsin State Show winners. W. W. Day, Janesville, Wis. 4-5

PARTRIDGE WYANDOTTES—Real champions. Won all firsts but one, all cups and specials at the last Chicago Show; 12 exhibitors and 95 specimens in class. G. S. Culver, Sandwich, Ill. 4-6

PARTRIDGE WYANDOTTE EGGS—\$1.25 for 15; \$6 per 100. Emmett Haer, Craig, Mo. 4-6

PARTRIDGE WYANDOTTES—Standard shape, color and penciling; Buff Orpingtons, Standard color. Eggs, \$1.50 per 15. James Scrubb, Urbana, Ohio. 3-5

PARTRIDGE WYANDOTTES—Eggs \$1.50 for 15. Circular. Wm. Shreve, Uhrichsville, O. 3-5

PARTRIDGE WYANDOTTES—Eggs from prize winning pens, \$1.50 per setting. Utility \$1; per 100, \$5. E. H. Casey, Ewing, Ill. 3-5

PARTRIDGE WYANDOTTE EGGS—Winning quality, \$2 per setting; reduction for larger quantities. James L. Coulter, New Wilmington, Pa. 2-5

PREMIUM PARTRIDGE WYANDOTTES—A superior strain of winners and layers. Eggs or chicks. Mating list ready. Perle Larue, Goshen, Ind. 2-4

SILVER WYANDOTTES.

SILVER WYANDOTTES—STRICTLY high class. Prize winners. Good layers. Score to 93. Eggs \$1.50 per 15; \$7 per 100. James Leggett, Hornsby, Ill. 3-5

SILVER WYANDOTTES, Tarbox strain. Choice stock reasonable. August W. Schroeder, St. Peter, Ill. 11

SILVER WYANDOTTES—Choice stock reasonable. Eggs, \$1 per 15; \$4 per 100. Mrs. Fred Schroeder, St. Peter, Ill. 4

TRAP-NESTED SILVER Laced Wyandottes. Hatching eggs, \$1 per 15. Baby chicks, \$1.50 per doz. U. Guy Eby, Cassopolis, Mich. 4-6

FOR SALE—A CHOICE lot of Silver Wyandotte cockerels and pullets, bred from blue ribbon winners. Eggs for hatching. Send for circular. Albert Wiegman, Quincy, Ill. 4

SILVER WYANDOTTES and Rouen Ducks—12 grand matings. Philadelphia, Buffalo and New York winners. Send for mating list. R. 2. M. H. Leidy, Souderton, Pa. 3-5

STERLING SILVERS—"The quality kind." Consistent winners, persistent layers. Chas. B. Wright, Marcellus, N. Y. 4-6

SILVER WYANDOTTES—Eggs, \$1.50 per 15. Winter layers. Carl Reinke, Middleton, Wis. 4

SILVER WYANDOTTES exclusively. Good layers and well marked. Cockerels and pullets for sale at \$1 to \$3 each. Samuel Schroeder, Altamont, Ill. 1-4

SILVER LACED WYANDOTTES exclusively. Twenty-second year. Clear, black and white open lacing. Eggs from prize matings, \$1.50 per 15; \$2.50 per 30. Satisfaction guaranteed. A. D. Long, Blooming Glen, Pa. 3-5

SILVER LACED WYANDOTTES—Cockerels large and beautiful birds, some weigh 8 lbs. Eggs in season. Jacob Gottfried, New Washington, O. 2-4

SILVER PENCILED WYANDOTTES—Winter layers. Eggs guaranteed. Order early. Also Rose Comb Ancona eggs. References. C. Kelsey, Imlay City, Mich. 2-4

SILVER WYANDOTTES exclusively. Blue ribbon winners for 15 years. Illinois State show 1914, seven entries, 4 firsts; 3 seconds; 3 specials; champion hen. Helfrich Brothers, Hammond, Ill. 2-4

WHITE WYANDOTTES.

REGAL DORCAS WHITE Wyandottes, bred to lay. Rare opportunity. Offer practically entire breeding stock, Cocks, Hens, Cockerels, Pullets; reduce plant account other business. Single birds, \$2.00 up; trios, \$5.00 up; pens, \$10.00 up. Satisfaction guaranteed. Order immediately. Edelweiss Poultry Farm, Sayville, N. Y. 3-4

WHITE WYANDOTTES, WHITE Orpingtons. Do not buy eggs until you have seen our mating lists. 100% fertility. Be one of our satisfied customers. J. A. Curzon, Champaign, Ill., Route 2. 3-5

TOM BARRON GUARANTEES English Wyandottes imported by me; have pedigrees of 275-283. Eggs, \$2.00 per 15. Circular free. Paul Frederickson, Holland, Mich. 3-4

WHITE WYANDOTTES, Martin and Fishel strain. Choice stock reasonable. August W. Schroeder, St. Peter, Ill. 11

WHITE WYANDOTTES—Bred to lay. Choice stock and hatching eggs for sale. Mating list free. E. Fetzner, Melrose Park, Ill. 3-5

HIGH CLASS WHITE Wyandottes—John S. Martin strain. Hatching eggs \$1 per 15; \$3 per 50; \$5 per 100. Wm. Remmert, St. Peter, Ill. 4

KEELER'S "WORLD'S GREATEST" strain—White Wyandottes. Eggs cheap. Nick Fleck, Plymouth, Ind. 4-6

WHITE WYANDOTTES EGGS—Rudy's Perfection strain exclusively. Properly mated by Judge J. G. Johnston. Young stock have run of 340-acre farm. No birds used in my matings scoring less than 91 points. Eggs, \$2 for 15; \$5 for 50; \$8 for 100. Mrs. E. B. DeMent, Kenney, Ill. 4

PURE BRED WHITE Wyandottes—Eggs, \$1 setting. V. B. Duncan, Route 8, South Bend, Ind. 4

WHITE WYANDOTTE EGGS—100 for \$4. Russell Simpson, Palmer, Ill. 4

WHITE WYANDOTTE hatching eggs, \$1.50 per 15. J. A. Nelson, 4738 N. Springfield Ave., Chicago. 4-5

WHITE WYANDOTTE EGGS from heavy laying strain, mated to cocks of Keeler strain. \$1 per 15; \$5 per 100. W. A. Johnson, Capron, Ill. 4

WHITE WYANDOTTES—REGAL-DORCAS strain. Bred to lay and win. Wherever shown. Eggs, special mating, \$2 for 15; \$3 for 30; utility, \$1 for 15; \$3 for 50; \$5 for 100. Frank Hardwidge, Poneto, Ind. 4-5

EXHIBITION AND HIGH-CLASS layers. Winners 1915-16 at Kansas City, 1st 2d and 3d cocks, 2d and 4th hens, 5th pullet, 1st best variety, 1st special, best cock. At Omaha, 2d and 3d cock, 2d pen, 2d hen. Eggs for sale. Send for mating list. Dr. C. P. Liegecot, Red Oak, Iowa. 4-6

HATCHING EGGS FOR SALE from heavy laying trap-nested, Standard bred White Wyandottes, \$1, \$2 and \$3 per 15. Frances Mansfield, 1723 No. Ind. St., Kokomo, Ind. 3-5

WHITE WYANDOTTES BRED for show and eggs. Buffalo winners. Trap-nested for eight years. Day-old chicks. Eggs. Cockerels. Miss Marion I. Moore, Hamburg, N. Y. 4-6

COCKERELS FOR SALE—\$3 and up White Wyandottes. High class exhibitor and utility. Winners at the State Fair Streator Fair and at the Quincy Show, 1915. Eggs in season, \$3 per 15 and up. Illinois State Reformatory Poultry Farm, Hecton McAllister, Mgr., Pontiac, Ill. 2-4

WHITE WYANDOTTE EGGS from prize winners, \$5 per 15; pen 2, \$3 per 15. Farm range, \$6 per 100. C. E. Van Buren, Victoria, Ill. 3-5

JOHN A. BRUHN, Homer, Ill., breeder of Ideal White Wyandottes. Guaranteed eggs from large, heavy layers, \$1 per 15; \$5 per 100. 3-6

REGAL DORCAS WHITE Wyandottes. They will please and pay you. Eggs, \$1.50 for 15. James C. Wilson, Peoli, Ohio. 4-6

WHITE WYANDOTTES of proven merit. Consistent winners at New York, Boston and other Eastern shows. Write for prices, no baby chicks. White Wyandotte Poultry Yards, H. J. W. Fay, Westboro, Mass. 4

REGALS! REGALS! WYANDOTTE pens shipped on approval, consisting of 4 pullets and 1 cockerel (\$7). Claus Miller, Green Island, Iowa. 4

HACKER'S WHITE WYANDOTTES—Eggs from hens, pullets; cocks and cockerels scoring in show rooms by Judges Pickett, McClave and Ott, 94 to 96; per 15, \$3.50 and \$2. W. P. Hacker, Milledgeville, Ill. 3-5

WHITE WYANDOTTES—Prize winners. 15 eggs \$1. Special mating \$3 for 15. Geo. Relling, Burnt Prairie, Ill. 3-5

WHITE WYANDOTTES—Fine range flock. Eggs 15 for \$1; 100 for \$5. Best hens mated to Keeler cockerels; 15 eggs \$2. Satisfaction guaranteed. William Brockley, Vermont, Ill. 3-5

WHITE WYANDOTTE COCKERELS—Full brothers to my state show and decatur winners. Special price \$5 each. Pens including above winners now mated and 9 chicks guaranteed, at \$5 per setting. Carl M. Bailey, R. F. D. No. 7, Decatur, Ill. 3-5

WHITE WYANDOTTE EGGS from winners at Waukegan, Elgin, Melrose Park, etc. Write for prices. D. A. Edmunds, Waukegan, Ill. 3-5

WHITE WYANDOTTES—15 eggs \$1.50. Robson, 340 W. 61st St., Chicago, Ill. 3-5

WHITE WYANDOTTES—Prize winners and heavy layers. Eggs reasonable and satisfaction guaranteed. Mae Biggins, Marion, O., R. F. D. No. 7. 3-5

WINNERS, RECORD 228. Catalog. W. W. Kulp, Box 70, Pottstown, Pa. 3-5

NEALE BROTHER'S WHITE Wyandottes—Heavy Winter layers. Highest records of American Wyandottes at last two Connecticut laying contests. Write now for our new catalog. Neale Bros., Box 38 K, Apponaug, R. I. 3-5

FARM RANGE WHITE Wyandottes. Eggs \$1 per 15; \$5 per 100. Also stock. John Chambers, Seville, O. 3-5

WHITE WYANDOTTES—Duston; extra fine. Winners Indianapolis, St. Louis. 15 eggs \$3. Fine, pure white, range flock, heavy layers, 15 eggs \$1; 50 for \$3; 100 for \$5. Herbert Smith, Route 8, Bluffton, Ind. 3-4

WHITE WYANDOTTES—Eggs for hatching. Circular. W. Sewell Painter, Bellefontaine, O. 3-5

WHITE WYANDOTTES—Maryland Beauty Strain. Six years careful breeding for quality, size and heavy layers. Eggs for setting. Fertility tested before shipping. Prices on application. A. C. Hayden, Price, Md. 3-4

BRED TO LAY; bound to pay. Hatching eggs from 238-egg Barron Strain White Wyandottes; 85 per cent fertility guaranteed. \$1.50 per setting; express or parcel post prepaid. Write for booklet. Ashokan White Wyandotte Poultry Farm, Shokan, N. Y. 3-5

REGAL WHITE WYANDOTTES. Exhibition and Utility. Hatching eggs reasonable. Sidney H. Smith, 100 Oak St., Laconia, N. H. 2-4

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SPRING BROOK FARM White Wyandottes famous laying strain. Eggs from choice matings of splendid layers, \$1.50 per 15; \$8.50 per 100. N. E. Robart, Caledonia, Mich. 2-4

WELLS' WHITE WYANDOTTES; famous laying strain. Eggs from choice matings of splendid layers, trap-nested, \$2 per 15; \$3.50 per 30; \$5 per 50; \$9 per 100. Satisfaction guaranteed. M. G. Wells, Box 7, Sellersburg, Ind. 1-4

PETERSON'S SUPERB WHITE WYANDOTTES; great layers. Silver cup winners. Wm. Almon Peterson & Bro., Galesburg, Ill. 2-4

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BARGAIN EXTRAORDINARY. At the Milwaukee Show, January 21st to 26th, 1916, a show that compared favorably with The Coliseum, in White Wyandottes I won 5 out of 6 firsts in the second largest class in the show. I won 1st and 5th cocks; 1st and 2nd hens; 1st cockerel; 1st and 2nd pullet, and 1st old pen. If you question the quality of my Wyandottes, write Judges W. C. Pierce, Theodore Hewes, or Mr. Wells. I have 8 pens mated of the very best Wyandottes in the country, and I will sell eggs from these pens in limited numbers at \$3.50 per setting of 15 eggs—not more than 2 settings to any one customer. If you are interested, place your order early. Frank E. Hering, South Bend, Ind. 2-4

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PEERLESS CHICKS are easy-to-raise, sure-to-live. Shipped successfully anywhere. Satisfaction and safe delivery positively guaranteed. Leading strains of Leghorns, Plymouth Rocks, Reds, Wyandottes and Orpingtons, 10c up. 50c book on raising chicks free to all customers. Write for descriptive literature. Peerless Hatchery, 4537 S. Sacramento, Chicago, Ill. 2-4

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IF INTERESTED IN REAL runners, look for my ad on page 701. 3-5

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BLUE MUSCOVY DUCKS— "All Star." Buy from originator. Every breeder first prize Chicago, St. Louis, Peoria, other shows. Eggs now. Al Piper, Oak Lawn, Ill. 4

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WHITE INDIAN RUNNERS with upright racy carriage. Prize winners. Great layers, large white eggs, 15, \$1.50; 50, \$3; 100, \$5. Circular on feeding ducklings free. B. F. Morgan, Independence, Indiana. 2-4

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BUFF DUCKS. Prolific layers, large white eggs. Won all firsts, three seconds Tri-State Fair, Memphis, 1915. Eggs, \$1.50, \$2.50, \$3.50 per 13 delivered. Good hatch guaranteed. W. S. Alley, Forrest City, Ark. 2-5

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MAMMOTH TOULOUSE GEESSE—(Davidson) Eggs 35c each. Springbranch Poultry Farm, Belleville, O. 3-5

EMBDEN GEESSE FGGS—30 cents each. Honey Creek Poultry Farm, Kahoka, Mo. 4

LARGE TOULOUSE GEESE—Eggs from winners. Circular. P. Pfouts, Bucyrus, O. 3-5

PRIZE WINNING MAMMOTH Buff geese. Stock and eggs for sale. Ed. Weinrich, Geneseo, Ill. 2-4

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AMERICA'S BEST Breeding Giant Bronze Turkeys. See our advertisement on page 595 2-15-1f

WHITE HOLLAND TURKEYS. Eggs, \$3 per setting of 11. Also a yearling tom for sale. W. A. Smith, Burnt Prairie, Ill. 3-5

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TEN DARK BOURBON Red turkey eggs, \$3. Mrs. Lewis Stolte, Hannibal, Mo. 2-4

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3-3



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DARK CORNISH—My specialty since 1892. Every bird the offspring of fine imported stock. Eight pens for this season. Before buying eggs for hatching, send for my mating list. It is free. T. D. Moore, Hopkinsville, Kentucky, Route No. 7.

12-15-1yr



SINGLE AND ROSE COMB Anconas, Golden Wyandottes, bred-to-lay strain. Eggs at living prices. Winners at Madison Square, Crystal Palace, Cleveland and Pittsburgh. Write for folder. C. H. Mills, Warren, O.

2-16-1yr



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EGGS FROM WINNERS at Randall, Columbus, Detroit, Hagerstown, California Exposition. Buff Leghorns, Old Gold strain. Silver Leghorns, yard of beautiful show birds. Dark Brahmas won at Hagerstown and California Exposition. Exhibition Black Reds. High stationed. Particulars. C. H. Sage, Oberlin, O. 3-2



JOHNSON'S EXHIBITION Quality Black Langshans. Grand Champion colored male last Ill. State Show heads first yard. First pen cockerel State Langshan Show, Aurora, second yard. Eggs, either mating, \$5. Third pen, \$3. Satisfaction positively guaranteed. Theo. Johnson, Oregon, Ill. 4-1

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Best day's laying in WINTER by 400 pullets, 324 eggs; another lot of 200 hens paid \$1,124 profit. They will lay as well for you. TESTED 10 YEARS. If you want the WINTER EGG AND BIG PROFIT, buy of the breeder that can give unquestionable PROOF. 20,000 chix, selected GUARANTEED FERTILE hatching eggs and stock at a LET-LIVE price. Get my big free catalog. Write

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"I have been colony brooding for several years, with all kinds. I used to worry day and night; I now let the Blue Hen do the work and worry. I am surprised to see how little coal it consumes and how even the temperature runs day in and day out."

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OUR WIN AT THE GREATER CHICAGO SHOW PROVES THAT WHEN WE SAY

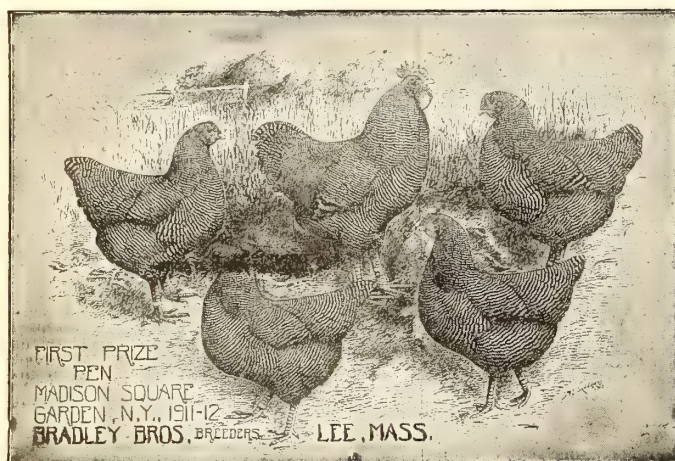
"Tis quality you want, 'tis quality we have." Won second cock, first, third hen, first, second cockerel, third pullet, first old pen and first young pen. Single Combs, Rose Combs, we won second cock, first, second hen. Our exhibit of Anconas was the sensation in Ancona Alley. Our display pen of those Mammoth White Leghorns had a crowd around them all the time. No wonder, hens weighing 7 to 8 lbs., and the cockerel 8 1/2 lbs. Big layers of big eggs. Catalog now ready. Are you on our mailing list?

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R-2, Box 2,

Judge E. G. TEANEY, Mgr.

OLNEY, ILL.



"At the Canton Show, when the State Barred Rock Club met, we won with your strain, 1st, 3rd and 5th Cockerel; color special on Cockerel; 5th Cock; 2nd Hen; 2nd Pullet and color special on Pullet; also 2nd Cockerel bred Pullet. We won the state club cup for the best four exhibition birds, viz.: Cock, Cockerel, Hen and pullet, and also special ribbon for the State Champion Cockerel. The above winnings were made in a class of nearly 300 Barred Rocks. The 1st Cockerel, 5th Cock and 2nd Hen were from eggs purchased from you."

FRED ANTHONY & SON

November, 1915.

North Lawrence, Ohio.

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Barred P. Rocks

we bred and raised, again hold their place as FIRST WINNERS at many leading shows.

POINTS OF OUR RECORDS AT NEW YORK:

At Madison Square Garden: 4 Firsts, 4 Seconds, 3 Third Prizes, besides other awards have been won by us at a single Madison Square Garden Show. Three times have Males of our breeding won 4 of the Five prizes offered in the class including firsts.

No other exhibitor has ever won THREE FIRST PRIZES at a Madison Square Garden Show where we competed. The highest cash price ever actually paid for a B. P. Rock so far as has come to our knowledge was given for a male we bred and raised. Three times have Males of our breeding won four of the five prizes offered in the class, including FIRSTS.

At our last Madison Square exhibit, 1911-12, we won 6 prizes on males, 3 prizes on females; both 1st and 2d yards; \$25.00 Cash Special for best display (won by nearly double the points of the closest competitor), also Silver Cup for best pen.

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Selected Breeding and Show Birds, Fancy Specimens—Males and Females For Sale. Ringy, blue-tinged, sharp barred birds from our best pens. We never had a finer lot of birds for every demand. Price list free. Illustrated circular free. Our breeders for sale after May 20th, 1916.

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That's what you want. That's what all good poultrymen want. I've got them—real champions.

"Ask the Judges" who won at Hagers-town, Chicago, Chattanooga, Panama-Pacific Exposition, Memphis, Atlanta, New Orleans and other big shows.

Andrews'

Premier Strain Barred Rocks

They'll win blue ribbons for you just as they did for me. The price is reasonable. Write me.

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Get this: An egg standing on end doesn't break easily. Every egg in the Andrews Efficiency Egg Carrier stands on end. The egg is protected by air cushions, too.

I ship the finest eggs you can buy. I had to have a safe, economical carrier. I invented this one, and it's a daisy! Ship all the valuable eggs you want—they'll never be broken.

Andrews' Efficiency Egg Carriers are efficient, economical and easy to handle. Keep these prices:

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One Doz.	Size	.50 per doz.
Two	"	.80 " "
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Four	"	1.35 " "
Five	"	1.60 " "
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15 Eggs	.95 per doz.
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50	2.25 " "
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Shipped only in lots of 2 dozen, each size.



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O. B. ANDREWS, President

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LONGFIELD R. C. REDS

Are again victorious at the great

Chicago Coliseum Show

Winning, December, 1915

3 FIRST PREMIUMS

and many specials. Our complete awards were: 1st cock, 1st old pen, 1st and 5th young pens, 2nd and 4th hens, 2nd pullet, silver cup for best display, silver cup for 4 best cocks, silver cup for 4 best hens, silver cup for 4 best pullets and shape and color specials on male.

We were the only Rose Comb Red exhibitor winning more than one first premium. We have won best display three successive years—a record. Our First and Champion Cock of 1914 was again 1st in 1915, winning shape and color specials both years—another record. At this great show the past five seasons we have won more than four times as many first premiums as any competitor.

We have a fine lot of stock for sale in both good breeding and exhibition birds—on approval always. Write for free illustrated mating list. Fertility guarantee 100%.

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Narrow Bars

Are as good as the best and cost no more.

Why buy the inferior quality when you can get "NARROW BARS" at the same price.

My winnings at Chicago Coliseum, 1915, and Greater Chicago Show, 1916, are the proof.

My mating list telling about my special egg plan is free. Mention the American Poultry Journal.

GRANT STURMAN, Mt. Carmel, Ill.

Read Announcement of "A Revolution in Egg Production," page 655.



WHITE PLYM. ROCKS

NEW YORK PALACE SHOW WINNERS

"WHITENED ON BLUE GRASS RANGE"

Make new New York record by winning all five first prizes and 1-2-3-4-5 pens, with 14 pens competing; besides winning 1-2 cock, 1-4-5 hen, 1-2 cockerel, 1st pullet. Our birds also won several specials. They also won at Louisville and the Kentucky State Fair 6 first, 4 second, 4 third, 2 fourth and 4 fifth prizes this season.

18 SELECTED MATINGS

All headed by and containing one or more winners. Eggs for hatching, \$1.00 each. No stock for sale until fall.

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Dept. A, Anchorage, Ky.

Leghorns, White, Brown
White Wyandottes
Silkies, Barred Rocks
1916 Cleveland Winners

ROSEMOUNT

EVER-BETTER FANCY FOWLS

Pekins, Runners, Muscovies
See Classified Adds
1916 Mating List

FRANKLIN - PENNA.

E. B. Thompson's Imperial Ringlet Barred Plymouth Rocks

Win at the Imperial Show
of all the World

Madison Square Garden

New York, December 31, 1915 to January 5, 1916



Winners of every first prize offered at Madison Square Garden, New York, February, 1915—first cock, first cockerel, first pullet, first hen and first pen cockerel.

The following matchless record:
All the Ribbons and Prizes offered on
Cocks, Cockerels, Pullets and Exhibition
Pens, viz:

Cocks	1st, 2nd, 3rd, 4th and 5th
Cockerels	1st, 2nd, 3rd, 4th and 5th
Pullets	1st, 2nd, 3rd, 4th and 5th
Exhibition Pens,	1st, 2nd, 3rd, 4th and 5th

The President's Silver Cup for Best Display.

The Imperial Prizes of the Show, Sweepstakes Special for Champion Male and Sweepstakes Special for Champion Female.

Special for Best Shaped Male. Special for Best Shaped Female.

Special for Best Colored Male. Special for Best Colored Female.

Diploma presented by the American Poultry Association for Best Cockerel.

Specials for Best Cockerel and Pullet, Best Cock and Hen, Best Three Cockerels.

Every Silver Cup and Special Prize awarded. More First, Regular and Special Prizes than any exhibitor of any breed.

Madison Square Garden is the Recognized Pre-Eminent Quality Show of all America—it is the Center of a System Around Which All Other Shows Revolve.

My exhibit of **100** birds of supreme quality is an achievement hitherto unknown in the entries of Poultry Shows—unequalled in the annals of Barred Rock history.

The amazing records of all the prizes offered on Cockerels, viz: **1st, 2nd, 3rd, 4th and 5th**, the last 3 years in succession; of all Prizes offered on Pullets, viz: **1st, 2nd, 3rd, 4th and 5th**, for the second time at New York; both Sweepstakes Champion Male and Sweepstakes Champion Female for the third time at one and the same Show in Madison Square Garden, declares the Imperial "Ringlets" have reached the summit of superior excellence.

**If You Want the Best in Barred Rocks You Must Have My Imperial "Ringlets."
My Customers Are My First Thought and Nothing Is Too Good for Them.**

Grand exhibition and breeding birds of this richest First Prize New York blood for sale at reasonable prices.

Elegant Catalog Upon Request.

EGGS from the finest exhibition matings in all the world, **\$10.00** per setting; four settings **\$35.00**; one hundred eggs **\$60.00**.

SEE MY OTHER AD ON PAGE 659.

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AMERICAN POULTRY JOURNAL

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"WE LEAD - OTHERS FOLLOW"



How to Secure Early Winter Egg Producers

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PREPARE NOW if you would have eggs in plenty when "strictly fresh" prices are soaring high. The poultry raisers who have learned how to produce winter eggs are those who are making their flocks pay big profits. It's only a matter of correct feeding. Start your baby chicks right if you would be assured of this extra profit, which comes from no other source.

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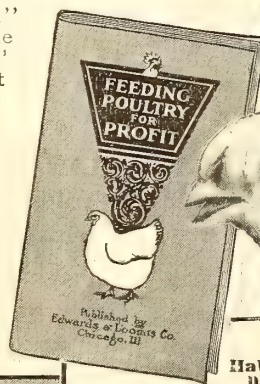
A prominent poultry authority says: "We feed Red Comb," in his paper on "Feeding Chicks From the Shell to the Gravy," in our free book "Feeding Poultry for Profit." This man has a record of making 1000 hens pay a net yearly profit of \$4580.

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Fine Chick Feed



"Mr. Sheppard, 'that speaks for itself'—does it not?"

When a customer wants birds that are sure to win, Jacobs—my superintendent—and myself pick out the birds. Once in a while we stop and admire their perfections. Yes, they do *speak for themselves*. If all of you could spend a few hours with me here, I never would need to spend another dollar to tell you of their good points!

All Anconas are judged by the standard of *Sheppard's Famous strain*.

For nine straight years I have been far and away the biggest individual winner at the World's Greatest Shows, including Madison Square Garden.

The World's Best Winners

At the 1916 Madison Sq. Garden Show, we won eight First prizes; seven Seconds; six Thirds; six Fourths; five Fifts.

Now is the time to send your order for some good hatching eggs, or some breeders and get ready to win next year. Prices reasonable.

The World's Champion Layers

Great winter layers. Start laying when mere "kids." Keep it up! Have record of 256 average for flock.

Stock, Chicks and Eggs for sale. Write for catalog—send me your order. Either myself or Jacobs will give it personal attention.

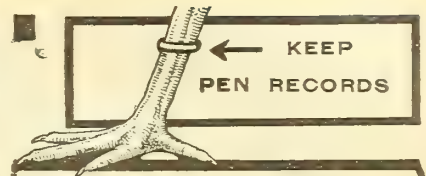
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H. Cecil Sheppard

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Box M-2

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Key-Ring-O Leg Bands

Then you can easily discard your unproductive stock and secure maximum profits.

Key-Ring-O's are simple, efficient, economical; very light, last a lifetime; put on like a key ring but easier, and stay on till removed. A trial will convince you of their superiority.

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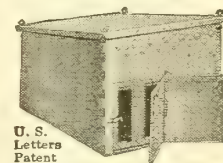
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Perfectly Sanitary and vermin proof. Can be collapsed or assembled in less than a minute. Folds flat and requires very little storage space. Write for particulars. Agents wanted.

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WITH RAISED FIGURES

Made from Aluminum, strong, durable, smooth edges.

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INCUBATORS and BROODERS
BACKED by 21 years of successes and strongest guaranty ever written. Poultry lessons free to every buyer. Booklet "How to Raise 48 Out of 50 Chicks"—10c. Catalog free. Make green egg-making feed for 15c per bushel in "Successful". Grain Sprouters. Write today.
DES MOINES INCUBATOR CO., 1 Second St., Des Moines, Ia.

Gassmann's White Orpingtons

Eggs for hatching from Chicago and Illinois State Fair Winners. Mating list free.
HENRY GASSMANN

502 S. Fair St.

Olney, Ill.

Columbian Plymouth Rocks

Eggs, Day-Old Chicks and Stock from our winners at Madison Square Garden and Palace and sons of "Columbia Queen," champion heavy-weight hen, record 286 eggs. Mating list free. Mention A. P. J.
T. J. ENSLIN HACKETTSTOWN, N. J.



Our Prayer

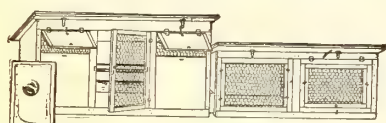
"How soon will the public get wise to the egg and utility humbug? Oh, teach the public to get wise to the fact that utility, like charity, covers a multitude of sins. That real utility means combining both meat and egg laying qualities, with some regard as well to the requirements of the Standard. That the average utility dodge is merely a subterfuge in numerous instances to get rid of inferior stuff. That of all the liars since the days of Annanias none have surpassed these fellows who have nothing but 200-egg hens. Teach the sucker public a little arithmetic that 200 eggs means 16 2-3 dozen per year. That the huckster (who is certainly useful in some spheres) will pay 25 cents the year around on an average. That would make one of these almost perpetual motion hens which are so common yield a gross income of \$4.16 per annum. She can be kept for a year for \$1.50, leaving a net income of \$2.66. Open the eyes of the buyer to the fact that if these statements were actually true that the owner wouldn't advertise and sell a hen for \$2.00 that would net him in 12 months \$2.66. Such hens are gold mines and gold mines are not being disposed of at such prices. And in conclusion let us have a return of the true fancier and of the sane days. And, above all, oh Lord, let us have peace."

We saw an advertisement the other day offering 12 baby chicks of one breed \$1.00, of another 12 at \$1.50, and claiming they were especially bred and trained for laying and exhibition purposes.

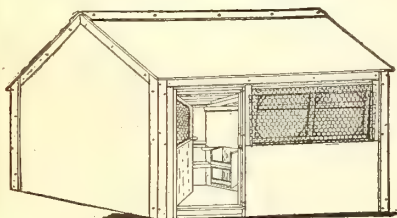
And the suckers bite. It seems that in more than one thing the man who claims the most and talks the loudest is the one the public falls for. Most of these fellows are giving you a five-cent show and charging \$2.00 for standing room. We never had a hen to have hemorrhoids from too much laying. We have been expecting to see an advertisement that some one had hens that laid 200 eggs per annum and yields twice a year from two pluckings 2 lbs. each, plucking of feathers finer than eiderdown and that brought \$2.00 per lb. in the market and offering for 50 cts. each.

We strive for the beautiful; if you are after that and not expecting something for nothing, send us 30 cts. in stamps for our new colortype catalog—S. C. Buff and Blue Orpingtons, R. I. Reds, Houdans, Japanese Longtails, Blue Peafowl, Wild Turkeys, White African Guineas, White Runner Ducks, Fancy Ducks, and 16 varieties Pheasants.

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10x10 Portable

All purpose house. Can be made in units. Just right for brooders or brooder stove. Equally good for growing stock or laying hens. Price.....\$30.00

Write for free booklet showing 20 different cuts.

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Buff and Blue; Grand pens mated that contain Madison Square Garden winners. Satisfaction guaranteed
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S. and R. C. Ancona Eggs

That will produce for you winners at the coming fall fairs and mid-winter shows. Catalog free. J. O. SOMERS, Bedford, Ohio.



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The product of his breeding pens of 1916 in Brahmas, White Orpingtons, White and Barred Rocks and White Wyandottes that seem better than any previous years output. Send for circulars and particulars. Mention A. P. J.

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"WE LEAD, OTHERS FOLLOW"

TABLE OF CONTENTS

R. A. HEWES—PIONEER POULTRYMAN.....	PAGE 751
DISQUALIFICATIONS OR DEFECTS—WHICH?.....	C. H. Latham 752
"CHEERFUL PLACES FOR FOWLS?"—SURE.....	Prince T. Woods, M. D. 753
REASONS FOR SELECTING MY VARIETY.....	P. H. Grigsby 756
HOW I PRODUCED AND PREPARED 1915 EXHIBITS.....	Louis C. Gercke 757
SEX CONTROL IN POULTRY BREEDING.....	Herb E. Sharp 758
POULTRY YARD POINTERS FOR MAY.....	Maurice H. Decker 761
EDITORIAL.....	764
Pure Breed Standards—House Cleaning—Feathers in Yarn—Awards in Chiles Co. Contest—Humbug Reform—H. H. Stoddard Goes On Record—Our Cover.	
DR. WOODS' NOTES AND COMMENT.....	769
DISQUALIFICATIONS.....	778
HOME AND THE TABLE.....	Helen T. Woods 779
HORTICULTURE FOR POULTRY KEEPERS.....	Thos. F. Rigg 783
READERS' EXPERIENCE DEPARTMENT.....	791
CHICK HATCHERIES.....	797
THE VENTILATION OF POULTRY HOUSES.....	J. L. Phillips 798
CONFESSIONS OF AN EX-HUCKSTER.....	Shepard Strong 800
BUCKEYES.....	H. W. Deem 806
RECENT INVENTIONS FOR POULTRYMEN.....	Lester L. Sargent 807
QUESTIONS AND ANSWERS.....	Prince T. Woods, M. D. 809
OUT OF THE EAST.....	P. K. White 816
MALAY AND SUMATRA GAMES.....	817



A. C. WILLIAMS Ravenna, Ohio

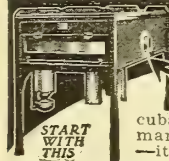
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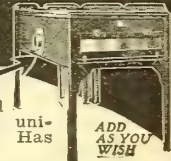
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"A and D" Mfg. Co., Chicago, Ill.....	782	Consolidated Products Co., Chicago, Ill..	814	Henderson, W. W., Bridgeton, Mo.....	819
Abbott, O. M., Whiteland, Ind.....	817	Conkey Co., G. E., Cleveland, Ohio.....	797	Hering, Frank E., South Bend, Ind.....	749
Aldrich Poultry Farm, Columbus, Ohio..	770	Conrad, E. K., Hackensack, N. J.....	795	Hess & Clark, Ashland, Ohio.....	788
Allen Co., S. L., Philadelphia, Pa.....	783	Cook, L., Oakville, Iowa.....	785	Hewes, Theo., Indianapolis, Ind.....	817
Almendinger, A. F., Buffalo, N. Y.....	775	Cooke, Geo., Racine, Wis.....	776	H. I. Company, Salem, Va.....	803
Alum. Marker Works, Beaver Falls, Pa..	806	Co-op. Breed. & Hatch. Co., Tiro, Ohio..	782	H. O. Company, Buffalo, N. Y.....	818
Am. Poultry Advocate, Syracuse, N. Y..	804	Corn Products Refining Co., New York..	819	Hiles, J. C., Cleveland, Ohio.....	777
American Poultry Journal, Chicago, Ill..	740-773-793-804-805-807-746-747	Cornell Company, Gr. Barrington, Mass..	818	Hodgson Co., E. F., Boston, Mass.....	784
Am. School of Poul. Husbandry, Missouri	788	Corning Eggs Farm, Bound Brook, N. J..	797	Holterman, W. D., Fort Wayne, Ind.....	817
Anchorage Farm, Silver Lake, Mass.....	801	Crane, Chas. M., Elkhorn, Wis.....	807	Homaji Farm, Eveleth, Minn.....	772
Andrews, J. W., Dighton, Mass.....	785	Cross, Frank, Montague, Mass.....	806	Homestead Campine Farm, Mass.....	785
Andrews, S. H., Mineola, N. Y.....	806	Crotser, E. A., Fulton, Mich.....	781	Hooker, Henrietta E., S. Hadley, Mass..	740
Applegate Poul. Farm, Delavan, Wis.....	785	Cudahy Packing Co., Chicago, Ill.....	780	Houston & Hofius, So. Charleston, Ohio..	790
Arcady Farm Milling Co., Rondout, Ill..	745	Curtis, E. G., Atsion, N. J.....	794	Howison, Chas., Sandwich, Ill.....	806
Arnold, Aug. D., Dillsburg, Pa.....	814	Curtiss Co., W. R., Ransomville, N. Y..	809	Hubbard, C. H., Lime Rock, Conn.....	814
Astle, Milan C., Momeno, Ill.....	789	Cycle Hatcher Co., Elmira, N. Y.....	820	Hummel, S. A., Freeport, Ill.....	802
Atherton, W. B., Randolph, Mass.....	773	Cyphers Incubator Co., Buffalo, N. Y.....	748		
Atlas Company, Lincoln, N. J.....	806			Indianapolis Star, The, Indianapolis....	818
Atsatt Bros., Mattapoisett, Mass.....	772	Darling & Co., Chicago, Ill.....	819	International Glue Co., Boston, Mass....	796
Automatic Trap Nest Co., Kenosha, Wis..	792	Davis, M. C., Woodstock, Ill.....	820	Ironclad Incubator Co., Racine, Wis.....	802
		Dawdy & Dawdy, Greenville, Ill.....	818	Ives, Ives & Ives, Guilford, Conn.....	775
Balch & Brown, Manchester, Conn.....	790	Deege, Grover, Quincy, Ill.....	806		
Bales, J. S., Springfield, Ill.....	820	Deer, F. L., Franklin, Ind.....	802	Jacobus, M. R., Ridgefield, N. J.....	806
Ball, W. J., Salem, Ohio.....	820	Demberger, L. J., Stewartsville, Ind.....	820	Jensen, Carl J., Waukegan, Ill.....	806
Banks, M. H., Dillsburg, Pa.....	804	Deming, H. P., Winsted, Conn.....	808	Johnson, Frank, Chicago, Ill.....	802
Barker, M. S., Thornton, Ind.....	790	Des Moines Inc. Co., Des Moines, Iowa..	739	Johnson Co., M. M., Clay Center, Neb....	794
Barstow, Geo. N., Oneonta, N. Y.....	780	Devoe, N. V., Dodgeville, Wis.....	775		
Bawden, John, Ridgetown, Ont., Can.....	802	Doerhoefer, Lewes P., Anchorage, Ky.....	789	Kaup, F. A., Glen Ellyn, Ill.....	810
Bayerdorfer, M., Huguenot Pk., N. Y.....	820			Keeler, C. A., Muskegon, Mich.....	781
Beach, Geo. Watson, New York, N. Y.....	800	Eakin, F. M., Bucyrus, Ohio.....	805	Keeler, Chas. V., Winamac, Ind.....	772
Bean, I. W., So. Braintree, Mass.....	800	Egg Keeper Co., New York, N. Y.....	819	Keipper Cooping Co., Milwaukee, Wis..	796
Beard, Brook Poul. Farm, Wakefield, Mass.	775	Elec. Specialty Co., Salt Lake City, Utah	792	Keller, Ira C., Prospect, Ohio.....	796
Belgian Hare, Holmes Park, Mo.....	806	Elliott Poul. & Fruit Farm, Mansfield, O.	803	Kennedy, J. Fred N., Birch Cliff, Can.....	775
Bella Vista Farms Co., Kimmswick, Mo..	818	Enslin, T. J., Hackettstown, N. J.....	740	Keyes-Davis Co., Battle Creek, Mich.....	802
Belle City Incubator Co., Racine, Wis.....	787	Everfresh Egg Farm, Ionia, Mich.....	784	King, Dr. A. C., Chicago, Ill.....	798
Berberich, Rev. W., Groton, N. Y.....	806	Everlay Farm, Methuen, Mass.....	792	Kitselman Bros., Muncie, Ind.....	783
Bernard, Phillip Co., Sioux City, Iowa..	798	Ever Ready Trap Nest Co., Missouri.....	800	Klein, J. W., Kiel, Wis.....	784
Berry's Poultry Farm, Clarinda, Iowa.....	790	Ewing & Romich, Creston, Ohio.....	806	Klein-Lambert Co., Chicago, Ill.....	799
Besse, C. W., Jefferson, Maine.....	782			Kortum, M., Chicago, Ill.....	776
Beuoy, Geo., Cedar Vale, Kansas.....	780	Faha, Jr., Frank, Dyersville, Iowa.....	784	Kulp, W. W., Pottstown, Pa.....	775
Biethan, D. H., Blackfoot, Idaho.....	806	Felch, I. K., Natick, Mass.....	740		
Bird Bros., Meyersdale, Pa.....	820	Fernbrook Farm, Albany, N. Y.....	777	Lakewood Farms, Holland, Mich.....	803
Bird & Son, East Walpole, Mass.....	775	Ferris, P. J., Cuyahoga Falls, Ohio.....	806	Lange, J. G., Detroit, Mich.....	796
Blatchford's Calf Meal Fcty., Illinois....	775	Fishel, U. R., Hope, Ind.....	832	Latham, C. H., Lancaster, Mass.....	770
Bloese, Aug., Chicago, Ill.....	820	Fishel & Son, J. C., Hope, Ind.....	771	Laywell Poul. Farm, Lyndonville, Vt.....	775
Blum, Barbara, New Washington, Ohio.....	792	Fishel & Hasselman, Hope, Ind.....	805	Lee Co., Geo. H., Omaha, Neb.....	780
Blum, Frank, New Washington, Ohio.....	812	Fogg, N. V., Mt. Sterling, Ky.....	792	Lee, Leo A., Chicago, Ill.....	792
Bock, Oscar L., Council Bluffs, Iowa.....	790	Fouche Mountain Poul. Farm, Arkansas	781	Leger, L. E., Coldwater, Mich.....	812
Bourne Mfg. Co., Melrose, Mass.....	806	Foxhurst Farm, Lime Rock, Conn.....	819	Leitner, C. H., Elgin, Ill.....	771
Brackett, L. C., Hopkins, Mich.....	812	Frantz, O. C., Rocky Ford, Colo.....	781	Liberty Stove Co., Philadelphia, Pa.....	774
Bradley Bros., Lee, Mass.....	834	Frase, W. F., East Akron, Ohio.....	820	Licene Co., Chicago, Ill.....	743
Bradley Port. House Co., Randolph, Mass.	804	French Co., R. T., Rochester, N. Y.....	802	Lily White Poul. Farm, Saginaw, Mich..	782
Briggs, Edgar, Pleasant Valley, N. Y.....	819	Friesner & Son, J. W., Bremen, Ohio....	794	Lingeman, C., St. Louis, Mo.....	800
Brogden, Thos., Rush Lake, Wis.....	785			Lock, C. W., De Kalb, Ill.....	800
Brown Fence & Wire Co., Cleveland, O.....	783	Gamewell, J. A., Little Silver, N. J.....	805	Lo-Glo Elec. Incubator Co., New York..	776
Brown, John L., Anderson, Ind.....	814	Garbutt, Cora B., Darien, Wis.....	801	Longfield Poultry Farm, Bluffton, Ind....	785
Bruerton, M. M., Wakefield, Mass.....	792	Gassmann, Henry, Olney, Ill.....	739		
Buckeye Incubator Co., Springfield, O.....	802	Genesee Cooping Co., Rochester, N. Y.....	800	McClave, Chas., New London, Ohio.....	796
Buckeye Poultry Yards, Eaton, Ohio.....	792	Gensch, F. M., Omro, Wis.....	832	McConnell, J. V., Garden Grove, Cal.....	780
Buell, Mrs. L. R., Lake Geneva, Wis.....	820	Geneser Bros., Creston, Ohio.....	809	McConnell, W. A., Richmond, Ill.....	812
Burdin, S. K., Toronto, Ont., Canada.....	788	Gerber, G. J., Dalton, Ohio.....	820	McDannell, M. O., Moline, Ill.....	768
		Gilbert Poul. Farm, Haverhill, Mass.....	772	McGrann, Frank, Lancaster, Pa.....	742
Cadwallader, T., Salem, Ohio.....	773	Globe Elevator Co., Buffalo, N. Y.....	802	McLean, S. G., S. Glastonbury, Conn.....	794
Cagwin, R. W., Williamstown, N. Y.....	775	Glory-Anna Poul. Yards, Louisville, Ky..	800	Magic Egg Tester Works, Buffalo, N. Y..	806
Cairngorm Farm, Nottingham, N. Y.....	819	Goddard & Sons, W. H., Muncie, Ind.....	781	Mahon, Elton C., Norwood, Tenn.....	806
Candes Inc. & Broder Co., N. Y.....	773-794	Gordon, Jessie F., Spring Valley, Minn....	801	Majestic Squab Co., Adel, Iowa.....	819
Carbola Chemical Co., New York, N. Y.....	801	Grant, John, Richmond, Ill.....	804	Mann Co., F. W., Milford, Mass.....	803
Carbolineum Wood Preserving Co., Wis.....	797	Greene, Ralph C., Sayville, L. I., N. Y.....	800	Marble Cliff Quarries Co., Columbus, O..	798
Carpenter, W. W., East Providence, R. I..	776	Grove Hill Poul. Yards, Waltham, Mass..	808	Marshall & Marshall, Niagara Falls, Can.	820
Carr Bros., Vineland, N. J.....	784			Martin, John S., Port Dover, Ont., Can..	768
Carter's Poultry Farm, Jonesdale, Wis.....	776	Halbach, H. W., Waterford, Wis.....	769	Martin, M. F., Chicago, Ill.....	819
Carver, A. A., Seville, Ohio.....	767	Hales & Edwards Co., Ill., Inside front cover		Martling Hennerly, Ridgefield, N. J.....	743
Cassel & Son, P. P., Lansdale, Pa.....	799	Handyside & Co., J. R., Litchfield, Ohio.	806	Mart, A. E., Arcadia, Ind.....	766
Chiles & Company, Mt. Sterling, Ky.....	740	Hansen, Dr. M. A., Osage, Iowa.....	777	Mazelin, Joseph, Berne, Ind.....	800
Cinnakol Chem. Sales Co., Bayonne, N. J..	773	Harbin, Edmond J., Riverside, Ill.....	782	Meadow Lark Farm, Elgin, Ill.....	832
Clark, G. A., Seymour, Ind.....	779	Harnly, Mrs. J. H., Zion City, Ill.....	832	Meadow Lawn Poultry Yds., Michigan..	792
Cleveland Hatchery, Cleveland, Ohio.....	795	Hartzman, H. S., Moline, Ill.....	807	Merrell, Arthur, Solon Mills, Ill.....	794
Coburn's Red Sus. Farms, St. Clair, Mich.	784	Hauk, Jos., Waukegan, Ill.....	776	Metzger Mfg. Co., Quincy, Ill.....	789
Cole, Frank C., Van Wert, Ohio.....	806	Hayward, W. F., Westboro, Mass.....	803	Minch, Philip J., Cleveland, Ohio.....	776
Collins, W. H., New York, N. Y.....	820	Haywood Tire & Equipment Co., Ind.....	820	Mirimichi Poul. Farms, Foxboro, Mass..	782
		Heasley, Dr. L. E., Holland, Mich.....	820	Mittendorf, O. F., Lincoln, Ill.....	795



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Monmouth Farms, Freneau, N. J.....	810	Reed, Mrs. Hattie D., Marcellus, N. Y....	Swift & Co., Chicago, Ill.....
Moore, R. H., Nellie, Ohio.....	776	Reliable Inc. & Brooder Co., Quincy, Ill. 778	Sycamore Farm, Grafton, Mass.....
Mooreland Poul. Farms, Mentor, Ohio.....	777	Reliable Poultry Journal, Quincy, Ill.....	
Morisrite Mfg. Co., Bloomfield, N. J.....	778	Reliance Incubator Co., Freeport, Ill.....	
Morris Farm, Bridgeport, Conn.....	759	Riley, H. J., Bryan, Ohio.....	Tarbox, A. & E., Yorkville, Ill.....
Morris Poultry Farm, Lebanon, Ohio.....	772	Ripley Mfg. Co., Grafton, Ill.....	Taylor, Geo., Urbana, Ill.....
Morse's Wh. Legh. Farm, Belding, Mich.....	790	Rochester Spray Pump Co., N. Y.....	Taylor Instrument Co., Rochester, N. Y. 790
Mountsville Farm, Mountville, Va.....	794	Rock Ledge Farm, Southborough, Mass. 786	Tenacre Poultry Farm, Princeton, N. J. 808
Muskawadosa St. Farm, Pembine, Wis.....	816	Rockford Poul. Supply Co., Rockford, Ill. 818	Thompson & Co., F. A., Detroit, Mich.....
Myers, C. Guy, Siddonsburg, Pa.....	784	Rogers, F. D., Elgin, Ill.....	Thompson, E. B., Amenia, N. Y., Back cover
Myers, C. N., Hanover, Pa.....	767	Roosevelt, C. L., Chicago Heights, Ill.....	Thornycroft Buff. Leghorn Farm, Penn.....
Myers, Frank, Freeport, Ill.....	797	Rosedale Egg Farm, Port Huron, Mich.....	Tiffin Poultry Farms & Hatchery, Ohio. 789
		Rosemount Farms, Penn.....	Tremper, S. N., Sandwich, Ill.....
		Rudy, Geo. H., Mattoon, Ill.....	Trethaway, Arthur, Wilkes-Barre, Pa.....
		Ruf, Fred A., Crown Point, Ind.....	Tyler, S. A., De Kalb, Ill.....
National Crate Co., Brooklyn, N. Y.....	803	Sanborn, Dr. N. W., Holden, Mass.....	Uhl & Co., M., New Washington, Ohio.....
National Poul. Band Co., Newport, Ky.....	773	Sanford, Geo. P., Wheaton, Ill.....	United Brooder Co., Trenton, N. J.....
Natural Hen Inc. Co., Los Angeles, Cal. 778		Sanitary Coop Co., Indianapolis, Ind.....	Urban Farms, Buffalo, N. Y.....
Nelson, Walter P., Bayonne, N. J.....	775	Sargent, Lester L., Washington, D. C.....	
Neusitz Co., W. A., St. Louis, Mo.....	797	Schabell, John, Chicago, Ill.....	
Newell & Gordinier, Troy, N. Y.....	739	Schultz, W. F., Cuyaboga Falls, Ohio.....	
Newtown Giant Inc. Corp., Virginia.....	788	Schalwe-Smith Co., Elmhurst, Ill.....	
Niemann Bros., Mfg. Co., Mt. Olive, Ill. 771		Scranton, B. H., Rising Sun, Ind.....	
Nixon, Chas., Washington, N. J.....	800	Sears, Howard O., Garden Prairie, Ill.....	
Norwich Auto. Feeder Co., Connecticut. 779		Sefton Mfg. Co., Chicago, Ill.....	
Novak Poultry Farm, Racine, Wis.....	776	Seward, R. M., Lewistown, Ill.....	
Nye, C. C., Harritstown, Ill.....	808	Sharp, Herb E., Spokane, Wash.....	
		Sheer Co., H. M., Quincy, Ill.....	
Oakes Mfg. Co., Tipton, Ind.....	814	Sheffield Farm, Glendale, Ohio.....	
Old Marble Car., Piqua, Ohio.....	799	Sheppard, H. Cecil, Berea, Ohio.....	
O. K. Company, New York, N. Y.....	797	Shoemaker, C. C., Freeport, Ill.....	
Old Forge Poul. Farm, Spring Grove, Pa. 803		Shoehard, G. H., Freeport, Ill.....	
Olle, P. J., Racine, Wis.....	781	Simmonds, Chas. A., Camp Point, Ill.....	
Orchard Farm, Noroton Heights, Conn.....	773	Simplex Sup. House, Chicago, 744-771-834-835	
Owen Farms, Vineyard Haven, Mass.....	774	Sixt, H. C. & C. W., West Park, Ohio.....	
		Smith, Eugene C., Aurora, Ill.....	
Pabst Stock Farm, Oconomowoc, Wis.....	820	Smith, F. S., Hamilton, Ohio.....	
Pagel, Fred, Rockford, Ill.....	812	Somers, J. O., Bedford, Ohio.....	
Palmer & Son, D. F., Yorkville, Ill.....	792	Spahr, Albert G., Xenia, Ohio.....	
Pape, Chas. G., Fort Wayne, Ind.....	785	Spencer, John G., Sharpsburg, Pa.....	
Parke, Davis & Co., Detroit, Mich.....	787	Spiller, A. P., Beverly, Mass.....	
Parks, J. R., Altoona, Pa.....	772	Sprague, P. H., Maywood, Ill.....	
Parks, J. W., Altoona, Pa.....	811	Sprecher Bros., Rohrerstown, Pa.....	
Pasteur Lab. of America, New York.....	778	Spring Water Poul. Farm, Stockton, N. J. 781	
Pennington, J. S., Plainfield, Ill.....	792	Standard Poultry Co., Nappanee, Ind.....	
Pennsylvania Poul. Farm, Lancaster, Pa. 799		Starks, M. L., Starkstown, Wis.....	
Perfection Port. Poul. House Co., Chicago		Steinmesch, Hy., St. Louis, Mo.....	
Perry, Louis H., Clay, N. Y.....	802	Sterling Poultry Co., Sterling, Ill.....	
Pilling & Son Co., Philadelphia, Pa.....	797	Sterling Poultry Farm, Sterling, Ill.....	
Pittsfield Poultry Farms Co., Mass.....	777	Stiarwalt, John, Decatur, Ill.....	
Platt, F. L., Swanton, Ohio.....	766	Stiles, Chas. L., Columbus, O.....	
Ply. Rock Squab Co., Melrose, Mass.....	778	Stover Mfg. Co., Freeport, Ill.....	
Poorman, John G., Tinley Park, Ill.....	750	Stratton Mfg. Co., Erie, Pa.....	
Pope & Pope, Louisville, Ky.....	780	Struble, Z. D., Bascom, Ohio.....	
Porter, A. B., La Salle, Ill.....	782	Sturman, Grant, Mt. Carmel, Ill.....	
Potter & Co., Downers Grove, Ill.....	797	Succulenta Co., Newark, N. J.....	
Pottinger, Joseph, Peru, Ill.....	800	Sunlight Poultry Farm, Lynchburg, Ohio 791	
Powers, J. H., Chicago, Ill.....	801	Sunnyside Poultry Farm, Bristol, Vt.....	
Prairie State Inc. Co., Homer City, Pa.....	795	Sunset Poultry Yds., Olneyville, R. I.....	
Pratt Food Co., Philadelphia, Pa.....	787		
Progressive Incubator Co., Racine, Wis.....	818		
Putnam, L., Elmira, N. Y.....	776		
Quaker Oats Co., Chicago, Ill.....	813		
Queen Incubator Co., Lincoln, Neb.....	789		
Quincy Poultry Farms, Quincy, Ill.....	785		
Ralston Purina Co., St. Louis, Mo.....	773		
Rancho Del Martino, Downey, Cal.....	814		
Rancocas Poultry Farms, New Jersey.....	812		
Rau, Fred, Indianapolis, Ind.....	808		
Rawnsley-Shields Poultry Farm, Ohio.....	812		
Read, W. E., Maywood, Ill.....	797		
Read Poultry Farm, Watervliet, N. Y.....	773		

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100%
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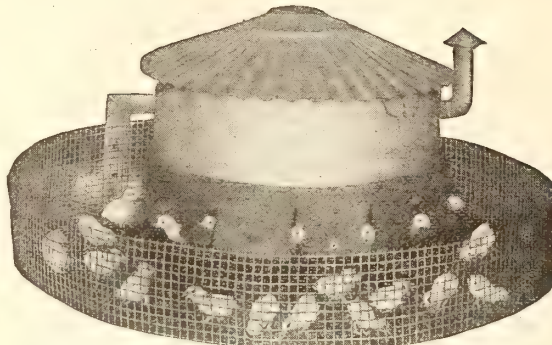
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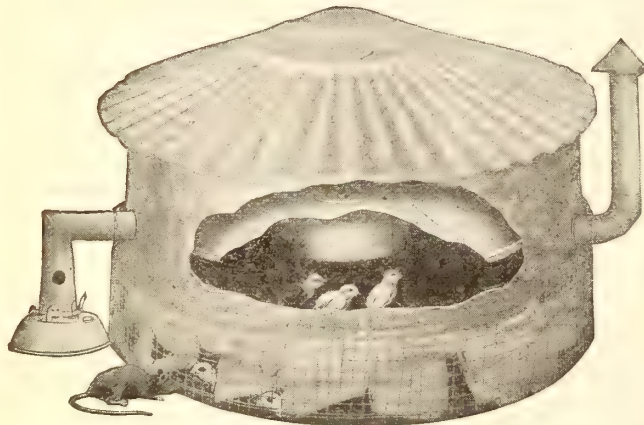


The above is a picture of a Simplex Perfection Heated Feather Brooder with netting extended as runway.

With or Without
Fire in a



Bound to
Please



Simplex Perfection Heated Feather Brooder

This shows the netting drawn tight to act as a rat guard; also the way the chicks hover in the natural feathers of a Simplex Perfection Heated Feather Brooder. This also shows the heating apparatus and the way the feathers protect the chicks. This picture was made to show the inside of the brooder; the brooders we sell have a solid body of galvanized iron and are guaranteed in every respect.

Net prices of the Simplex Perfection Heated Feather Brooders.

50- Chick **\$5⁰⁰** 100- Chick **\$6⁰⁰** 150- Chick **\$7⁰⁰**

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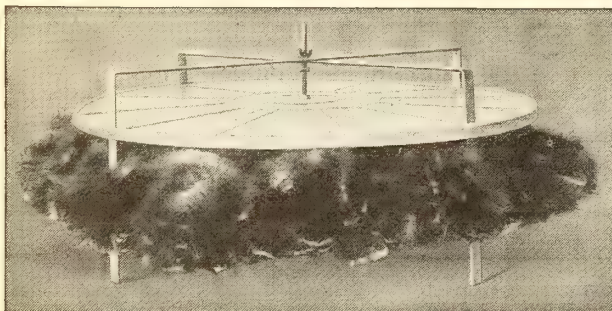
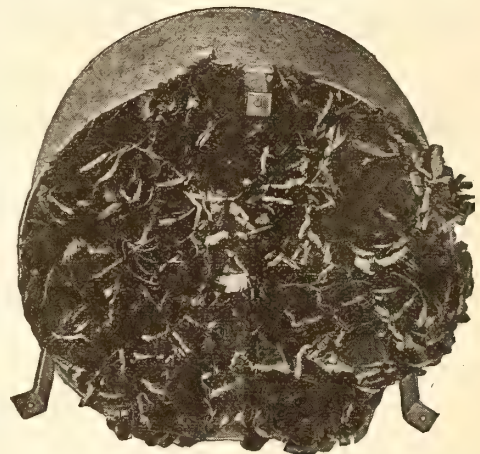
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"My, but it tasted good—and was good for me. I just grew and grew, feathered out in a hurry and never had a day's sickness. " 'Twasn't long before they put me on

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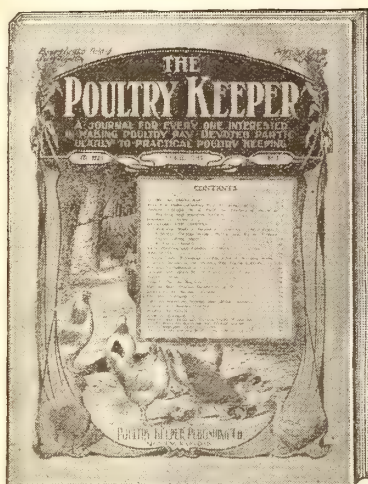
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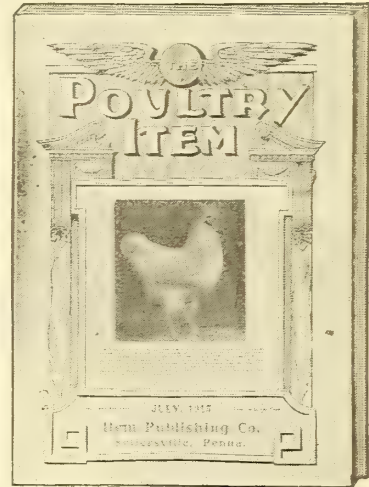
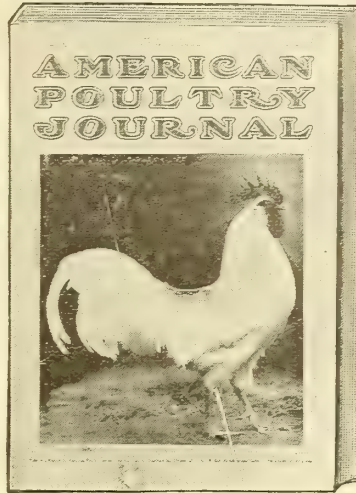
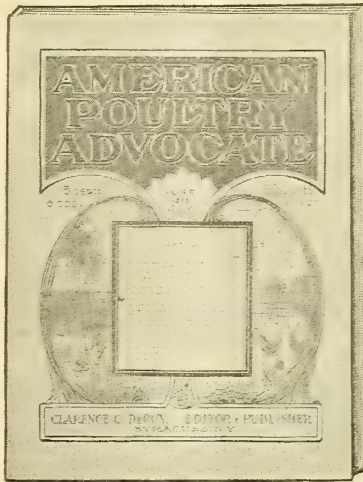
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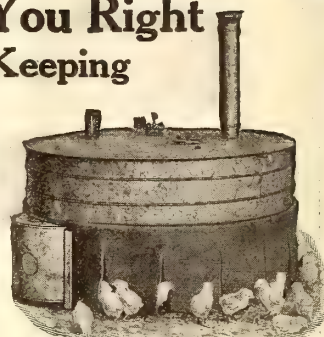
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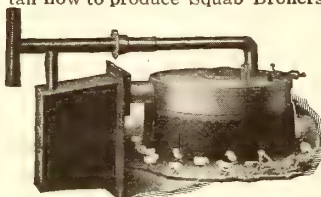
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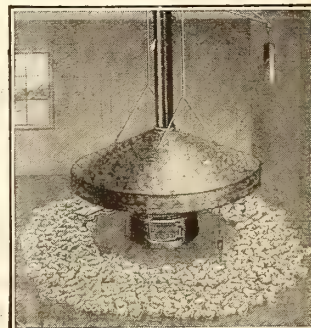
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The Profits in Poultry Keeping



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BEST METHODS OF BROODING

A General Treatise on Successful Brooding of Chicks by Artificial Means



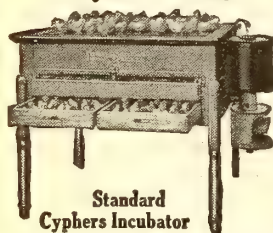
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After May 10, on Hatching
Eggs and Chicks from my

SWEEPSTAKE CHAMPIONS



1st Cock, Coliseum, 1915

In S. C. White LEGHORNS

I won the lion's share of honors in the great contest between quality S. C. White Leghorn breeders of the East, West, North and South. Because of the strength of the class competing at the Coliseum, Chicago, no fair-minded man will question the right of my stock to be considered the equal of any strain in the country in exhibition qualities. So far as egg-laying qualities are concerned, they have for years been unsurpassed.

**Just Consider That in S. C. White Leghorns at the
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I won first and third in cocks; I won first young pen.
I won first and fourth in cockerels; I won second and third old pens.
I won the Coliseum silver cup for best 5 cockerels.
I won the Coliseum silver cup for best display.

SILVER CAMPINES

At the last Coliseum Show, Chicago, the very cream of the best fowls of the country were exhibited.

THE CAMPINE CLUB OF AMERICA

held its annual meet at the Coliseum, and the leading breeders of the East, the head-liners in Campinedom, were present with their exhibit. The classes were the very strongest, every one agrees, that have ever been exhibited, and

THE GREATEST HONORS WERE MINE

I won two of the five awards in cockerels.
I won three of the five awards in hens.
I won three of the five awards in pullets.
I won three of the five awards in old pens.
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I won the challenge cup of the Silver Campine Club of America.
I won the Coliseum cup for best display.
I had 48 Campines entered; 38 were placed.



1st Cockerel, Coliseum, 1914

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I now have 40 pens of S. C. White Leghorns mated and I also have 35 pens of Silver Campines. April 20,
I have 4000 Baby Chicks. I guarantee 12 strongly fertile eggs in each setting of 15 eggs.

BABY CHICKS

BABY CHICKS

BABY CHICKS

The same generous discount after May 10, 33 $\frac{1}{3}$ %. Write for Hatching Egg and Baby Chick circular today.

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from profitable layers is your only guarantee for success in the poultry business.

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That Means Your Success.

EGGS

I can usually make shipment of eggs promptly upon receipt of your order. I would, however, advise that your order be booked in advance. This will assure delivery when you desire them. Prices, 10c, 20c and 30c each.

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I am rapidly catching up with my Baby Chick orders and I will be prepared to make shipment of Baby Chicks of most grades and breeds within five to ten days after receipt of your order. Instruct me to book your order now. Prices 20c, 35c and 50c.

Buy Your Foundation Stock Now

In all of my eight varieties, namely, White and Buff Orpingtons, White and Barred Rocks, Rose and Single Comb Reds, White Wyandottes and Single Comb White Leghorns, I can supply Breeding Stock, young or old, that will produce a future flock of the kind that has in the past given entire satisfaction to over 3,000 customers. I herewith present your opportunity to start right. My free instructive catalog has helped others and will undoubtedly help you. Write for your copy today.

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Young's Strain s.c.w. Leghorns

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Another Phenomenal Win at Madison Square Garden just closed



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I am booking orders for eggs for hatching from 65 of the grandest pens that I have ever mated.

Why not come to headquarters and get the best.

Mating List FREE.

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AMERICAN POULTRY JOURNAL



VOL. XLVII No. 5

WE LEAD

FOLLOW

OTHERS

MAY, 1916



R. A. HEWES—PIONEER POULTRYMAN

R. A. HEWES, a specialist in Black Langshans, was born on a farm in Crete, Ill., in 1859. He began poultry keeping at the age of 10 and has bred Bantams, Light Brahmas, Buff Cochins, all varieties of Plymouth Rocks, Leghorns, Wyandottes, Games, water fowls and pigeons. In 1881 he started with Black Langshans, with pure Croad stock, and was so pleased with this variety that he decided to give his attention to Black Langshans exclusively. Mr. Hewes' aim has been to produce the best possible Black Langshans, regardless of cost, and he has paid and received the highest prices for breeding stock on

record for his variety. Fowl of this strain have been shipped to every state in the Union, to England, South America, Mexico, Porto Rico and Canada.

Mr. Hewes lives on a village farm of 18 acres in Crete. He hatches and rears all chicks by the natural hen method and considers that his experience has proved that this is the best plan to produce vigorous prize winners and the most of them. His wife is a poultrywoman of experience and ability, an expert with Langshans, and he says that his success is largely due to her able assistance, skill and good judgment.

Disqualifications or Defects—Which?

The Folly of Using Disqualifications in Passing on the Merits of Pure Bred Poultry.

By C. H. Latham, Lancaster, Mass.

(NOTE.—Read this article, it is brief and to the point and it should interest you if you are breeding or intend to breed exhibition poultry. Not long ago a well-known poultry judge publicly announced that he would no longer judge at poultry exhibits because strict application of the Standard required him to disqualify specimens that are "priceless as breeders." A good many poultry judges believe that only deformities and disease should disqualify a specimen and that defects should be cut in accordance with the Standard and the judgment of the adjudicator. Mr. Latham is a real fancier, he is a veteran in breeding good quality exhibition specimens and he knows how to mate and why he makes a certain mating. He certainly knows how to see and rightly appreciate values in breeding and exhibition stock. His opinion on this subject should be of value to all interested in poultry breeding.—Editor American Poultry Journal.)



WO OR THREE GENERATIONS ago people rode in two-wheeled carriages, wrote with a quill pen, wore homespun clothes; all of which was sufficient for their day and generation, but as the world moves—and in these days it moves very fast—the people of this day and generation cannot follow closely in the footsteps of our ancestors,—worthy tho they may have been. We must either keep up with the times or become "has beens."

We all believe that the charter members of the American Poultry Association worked with honest zeal in making a Standard that was running overfull of disqualifications, many of which are considered the correct thing today. Whether or not these disqualifications have caused us to make faster progress in our work of perfecting the different varieties of poultry, is a question that has been discussed pro and con for many years.

Let us look into the meaning of the words *Disqualification* and *Defect*:

Disqualification—That which renders unfit, disability.

Disqualified—Unfitted, incapable, unworthy.

Defect—Absence of an essential part, physical imperfection, to be deficient, to fail.

Defective—Wanting a requisite amount of quality, insufficient, deficient.

Let any breeder of pure-bred poultry go into his flock looking for birds for exhibition, and, if he applied the real meaning of the word *disqualification*, he would find a host of disqualified birds in his flock. How few of them he would

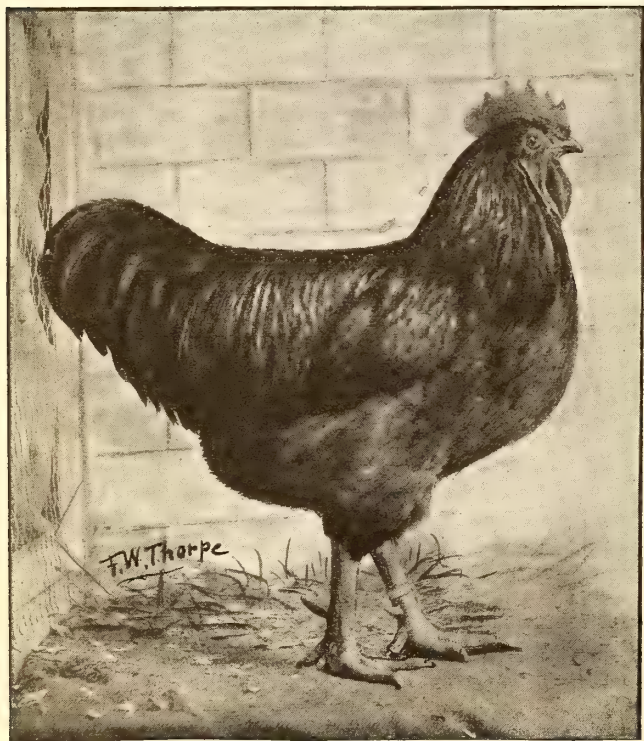
find that were not *unfitted*, *incapable* and *unworthy*. If he strictly applied the full meaning of the word *disqualification* he would condemn a very large part of them as unworthy to be in his yards as breeders, for if they were *unfitted*, *incapable* and *unworthy* to go to a show and stand some chance of winning prizes, they would be unworthy to be used as breeding birds.

While if he applied the meaning of the word *defect*, or *defective*, he would be considering his birds with their true value—all more or less defective, as all birds truly are. Many of them might lack *essential parts* to be able to win in a show, be *deficient* in one or more ways, that would cause them to fail in a competition, still would not need to be birds unworthy to be in any breeder's yards,—and they might have the *essential parts* needed to make strong breeding birds. If the breeder followed the Standard strictly for disqualifications, he would condemn every bird that showed a little fleck of white in a lobe that should be red; that had a small side-sprig on the comb, stub in the shanks, down between the toes, squirrel or wry tails, etc. When these may be just a taking back to some ancestor, or, in case of the squirrel or wry tails, may be caused by wrong cooping of the bird when quite young which caused this shape when his parents did not have the defect at all. We have our poultry shows to get together an aggregation of birds to determine their good qualities, as an education to the breeders, and to determine who has the best of its kind. We should have these birds so judged that the *real merits* of any birds could be brought out. If we apply the Standard for disqualifications this cannot be done. *Every year we see very fine birds thrown out as disqualified, and a much poorer bird, with far more defects, take the winning.*

The writer recalls a grand hen, exhibited at one of the late Madison Square Garden Shows, being disqualified for having a small side sprig to her comb, that amounted to only having a serration slightly out of line with the other serrations of the comb. This hen was worth a whole row of those that did win in her class. Any breeder of experience would rather have had this hen as a breeder than perhaps all the other hens on exhibition in her class. But because she was judged on a "has been" idea, the best bird in the whole class was not considered as worthy to win.

A bird to be disqualified should be considered from a breeder's point of view. If it is *incapable* of producing birds true to its breed and kind, or *unfitted* or *unworthy* to be used as a breeder, then it might be considered disqualified without injustice to the specimen. No bird that is *capable* should be disqualified, nor should a judge disqualify a specimen that shows itself to be *fitted* to produce creditable specimens of its breed and variety. If a bird showed unmistakable evidence of having blood of some other variety, this showing in strong shape characteristics and splashes of plumage of a foreign breed, disqualifying such a specimen would be simple justice to everyone. Such evidence of foreign blood with actual deformities should be the only disqualifications considered. Everything else could be safeguarded by cutting for defects. It is an outrage to the bird, and to the breeder exhibiting it, to disqualify the specimen for some of the senseless ideas that we are still considering as needed.

Should a bird with a small side-sprig, or a bit of white in lobe, or stub in leg, or bit of down between the toes, in Barred Plymouth Rocks, be thrown down as disqualified, and a specimen showing very heavy dark or light tips to the feathers, causing the whole beauty of the surface color to be lost, be allowed to win over the other specimen, when the "disqualified" specimen may have splendid type, beautiful



One of the Madison Square S. C. R. I. Red winners, in the breeding pens of H. P. Deming, Box 500, Winsted, Conn.

color and barring? I say *No*, and all real breeders will say the same.

Some years ago a disqualification was made for two or more solid black feathers in wing or tail of Barred Plymouth Rocks, and this was put thru mainly by the efforts of a poultry publisher and editor, whose zeal far exceeded his experience as a breeder.

Now, should these black feathers in these sections be any worse than black feathers in any other section of the bird?

How many hens and pullets in Barred Rocks shown today, that are *capable* of winning in hot competition, ever enter that competition without *leaving a lot of black feathers at home as being unworthy, unfitted and incapable of being worn if she is to be a winner?* I would be willing to state under oath, *Not One Specimen!*

Some years ago the writer had in his yards a high winning male bird that had been sold for a high price. To simplify the story, the bird was "Century First," owned by Grove Hill Poultry Yards, exhibited at Boston Show in 1900, winning

first prize and then sold for \$100, which was a large price in those days. I obtained the use of this bird and bred him that year, and afterwards bought him of the man who paid \$100 for him. He bred that year males that won as cocks in Boston Show, in 1902, first, second, third and sixth, with the old bird "Century" winning fifth when three years old. The following year he *moulted two solid black feathers in flight feathers of one wing*, that previously had always been with every feather barred. *According to this useless and absurd disqualification this superb breeding specimen was disqualified and worthless.*

Is there any justice in such foolish methods of judging birds? It is up to breeders to stamp this out, leave the foolishness with the ones that usually go to the meetings of the American Poultry Association and have the most to say about what shall and shall not be done and that the old disqualifications shall go on the same old way. *There are enough of our most skillful breeders to vote these useless ideas down and out; but they have got to get busy right now if they want to do it.*

"Cheerful Places for Fowls?"—Sure!

Woods' Open-Front Houses Make Good in the "Worst Old Fashioned Winter for Forty Years" and the "Snowiest March on Record at the United States Weather Bureau."

By Prince T. Woods, M. D.



CHEERFUL PLACES FOR FOWLS those houses were" is the way an editor of a contemporary sneeringly refers to the Woods' open-front poultry house in an article entitled "Not a Good Season for the Woods' House." We know from the balance of his article that he meant that remark to be nasty sarcasm; but for once in his life, at least, the pessimistic editor unwittingly voiced the truth. We certainly found our open-front poultry houses during the "old fashioned winter" just past, to be decidedly "cheerful places for fowls,"—we could not ask for more satisfac-

factory houses or for better results from the fowls. "Cheerful places for fowls?"—Sure!

The oldest inhabitant in these parts does not recall a winter in which we had any greater snow fall and it is reckoned that it was the "worst old fashioned winter for forty years." The *Boston Daily Globe* on March 16, 1916, said:

"Altho only half of the present month has gone, it has earned the distinction of being the snowiest March on record

at the United States Weather Bureau. The record keeping began back in 1871-2."

Some time after that report was published we had one of the worst blizzards of the season, with the heaviest snowfall we have ever seen in this section of Massachusetts—in fact, we recall nothing quite equal to it since our boyhood days at boarding school in New Hampshire. We had a real old fashioned snowbound experience and the roads about The Anchorage Farm were blocked with snow. The trolley cars, which run by our place from Brockton to Plymouth, did not run for three days owing to the blockade of snow drifts. Yet for all the snowfall, the drifts and the high winds, we did not have to shovel any snow from the roofs of our semi-monitor-top, open-front poultry houses. The flocks were happy and productive, the egg yield kept right on increasing and the houses certainly proved bright and "cheerful places for fowls." As soon after the storm as we could get a sufficiently bright day for the work we took a series of photographs of our houses to present to interested readers of *AMERICAN POULTRY JOURNAL*.

It is quite probable that in some localities where snowfall is uncommonly heavy, where there is no wind to speak of, and where the snow is wet and heavy, that it may be necessary to shovel off poultry house roofs. It sometimes happens with any type of poultry house or other building. But in our experience with semi-monitor open-fronts we have not found it necessary to shovel snow from the roofs. The semi-monitor-top is one of the oldest practical types of farm out-building and this type of house has been used with closed front for both poultry and hog houses since many years before we were born. The only originality ever claimed for the "Woods' open-air house" was the use of an always open front in this type of building and the adaption of this type of house in suitable proportions to the practical housing of poultry.

The quibble about semi-monitor-top poultry houses being dark and not "cheerful places for fowls" owing to snow drifts on the low front roof, which drifts are supposed to block the monitor windows, is a silly quibble. We have never yet had enough snow drift on a front roof to shut off any appreciable amount of light. Figure 1 shows the front roof of one of our open-front houses in the snowiest part of the woods on The Anchorage Farm and a bleak and wind swept location. Even a hasty glance at the picture will show the wide wind-riffle between the snow drift and the windows. As light comes from above, this drift did not shut out enough light to talk about. But assuming that the criticism was either fair or just—and we can conceive of conditions where snow might possibly block the greater part of the monitor windows, altho



Figure 1. Showing the front roof of a 20x20 Woods' house in the woods, March, 1916. Note the wind-riffle between drifted snow and windows; no light shut out here. (See "Cheerful Places for Fowls.") Yes, curious reader, the man ran out of green paint before he finished that door and he hasn't had a chance to finish it.



Figure 2. Dr. Woods' residence at The Anchorage Farm, Silver Lake, Mass., March, 1916. This clearly shows the screened open-front sleeping porch where the whole family sleep out of doors the year 'round. Note that this porch roof is even flatter than that of the semi-monitor top poultry houses and that the chamber windows are close to roof. No light shut out here by drifted snow and it is some storm swept location, too. Cheerful place for the family, we call it, and it helps toward great "adventures in contentment."

we have never experienced it—suppose that the monitor windows were entirely blocked, what of it? This house is 20x20 ft. It has four six-light, 8x12 in. pane, windows in the monitor. It has one such window in the east side and two such windows in the west side and the entire front is wide open for a space of 3x20 feet, less the space occupied by 8 studs, 2 inches wide, and the slide of the chicken door. With monitor windows blocked so as to shut off all light—a highly improbable condition—there would still remain much more open space for the admission of light than is found in most poultry buildings. Take the Tolman type open-front house for example—which is one of the best types of open-front house—and it has no more area for admission of light at any time than the Woods' house has with its monitor windows screened to prevent entrance of light. That fact should be patent to the most prejudiced pessimist. We have seen no quibble to date about the snow on the long, low, front roof of the Tolman house.

We had a good many dull and dark days during the winter just past; days when we had to use lamps late in the forenoon and light them again early in the afternoon. Yet, all thru this dull, dark weather we found that our semi-monitor, open-front houses were decidedly "cheerful places for fowls."



Figure 3. One of Dr. Woods' 10x16 open-front houses. A cheerful place for fowls and the house in which four Black Langshans were placed direct from shipping coops after their nine-day journey from the Pacific Coast in February, 1916. No sickness in open-air housed flocks and the egg yield and fertility is good. The birds in this house did not have to get acclimated, they went right to work.

In fact, we never had our flocks perform any better. Our White Rocks and S. C. White Leghorns laid 40% or better for all flocks thruout the winter. Fertility in January and February eggs ran strong at 80% and better in both varieties and March eggs in our own incubator tested 92% strong live germs on the 7th day, and we counted all blood-ringed eggs just as if they were infertiles. That certainly looks as if our open-front houses, this old fashioned winter, had proved "cheerful places for fowls."

Of Woods' open-front houses, on The Anchorage Farm, we have nine of the 20x20 ft. size and two of the 10x16 ft. size, a small Tolman open-front house, besides several small 3x6 ft. partly curtain-front coops for small matings. We carried eight varieties of fowl thru the greater part of the winter, but are thinning down to three varieties only and expect to keep only Black Langshans, White Rocks and S. C. White Leghorns hereafter. As sales of stock were pretty good in the fall we did not go into winter quarters with as many fowls as usual and we thinned down considerably thru sales of breeding and market stock all winter.

We carried thru the winter 160 White Leghorn females in flocks of 80 young and 80 old, with four males running with each flock, each flock in a 20x20 ft. open-front house. Front always open and no curtains of any kind. Not more than a dozen combs were at all touched by frost and then only the



Figure 4. More "cheerful places for fowls." One of Dr. Woods' S. C. White Leghorn houses in the woods, taken after big March snow storm in 1916. Note the big cheerful cockerel getting his tail up and head back ready to crow; he sounded his challenge just as the camera clicked. Eighty yearling hens in this house and all were singing the laying song and enjoying the bright sunny house. American Poultry Journal publishes a book giving plans of his houses. The title is "Open Air Poultry Houses for All Climates," and the price is 75 cents post-paid.

tips of the points, so that they show no evidence of frost-bite.

We had three flocks of White Rocks, each in 20x20 ft. open-front houses and, before these were reduced by sales, the flocks were made up about as follows: 30 adult hens with 3 husky cockerels, no combs frosted here; 80 large pullets with five males, three males here had combs touched by frost, but chief comb injury was thru scrapping and one male getting caught in wire fence; 40 large pullets and four males in an unsheathed matched-board 20x20 ft. always open Woods' house, two males lost points of combs thru frostbite and fighting and other two untouched by frost.

Three Black Langshan females and one male received on February 26 after a nine-day trip—during which they were half starved—from Spokane, Wash., were taken directly from the shipping coops and placed in a 10x16 ft. Woods' open-front house and began to improve from the start, no frost-bite here and egg yield good with fairly good fertility. Five Black Langshan pullets and a cock, also five hens and a cockerel of same variety, all from Crete, Ill., received early in March. Each flock put by itself in a 20x20 ft. open-front house and have shown only improvement since. No frost-bite here, tho weather was severe, and the egg yield has been good with fair fertility. A Black Minorca cockerel, from

Canada, was put in a 4-bird shipping coop in barn next to box stall, as temporary quarters, and he had comb and wattles frozen so badly that it was necessary to kill him. We have had experience enough with poultry to feel sure that frost-bite is not necessarily due to the manner of housing or lack of housing,—it seems to be more a matter of condition and it is quite as likely to occur in a closed house as in an open-front one or out of doors. In fact we believe there is less danger in the open-front house, at least we have found it so.

Figure 2 shows a view of our dwelling on The Anchorage Farm. The screened sleeping porch where the whole family sleep out of doors the year 'round, winter and summer, is plainly shown. This view shows the south front of our house and it will be noted that the roof of the sleeping porch is quite flat, flatter than on most of our poultry houses and that the upstairs windows are close down to this roof. There has never been sufficient snow on this roof to obstruct the light from these windows, nor have we ever been obliged to shovel snow off this roof. That open-front, screened porch is a mighty comfortable place to sleep, too, even when the mercury drops to 20 degrees below zero and sometimes to 28 degrees below, as it did on a few nights in January, 1915. "Cheerful place" for the family, we call it. If some of the pessimists would get a little out-door air and out-door living into them, they might cheer up too.

Figure 3 is a 10x16 ft. house in which the four Spokane Langshans are housed. The wire screen, on birch poles above front roof, was put on to prevent birds flying up on the roof when house was used for chickens. The wire really should be removed in winter as it serves to hold snow on roof; yet, it will be noted that the snow on this roof amounts to very little. It sure is a mighty "cheerful place for fowls." This house is 4 ft. 4 in. high in front; 9 ft. at peak; monitor is 3 ft. 6 in. high and has two windows about 2 ft. 4 in. square; back wall, 4 ft. 8 in.; low part of house is 6 ft. deep and high part 10 ft. 4 in. deep. Usually it accommodates a flock of 40 fowls.

Figure 4 shows a house in the woods used for S. C. White Leghorns; it is a 20x20 ft. house. The birch poles at front of this house support a high screen of 2 in. mesh poultry wire to keep Leghorns from flying out of yard. The leaves which blew in at bottom of this wire screen were not cleaned out last fall and this roof shows the most snow we have seen on one of these houses. However, you will note that the light is not shut off from monitor windows and that it wouldn't matter a great deal if it was. The cockerel standing in front of house is not as high tailed as he looks in the picture, as he was just getting ready for a cheerful crow when we snapped the camera. He is half American and half English blood. Anyone who thinks that this house was not a cheerful place for fowls should have heard these birds sing while we were taking the picture. Some concert, believe us.



Figure 5. A view on the shore of Old Forge Pond at The Anchorage Farm. The small house at left is a Tolman open-front and the large one is a Woods' 10x16 ft. Used for surplus sales stock in winter and for growing chicks in summer. (See article "Cheerful Places for Fowls.")



FIRST PRIZE COCK, PALACE, NEW YORK, DEC. 1915
HOMESTEAD CAMPINE FARM, WAYLAND, MASS.

This house is 20x20 ft. 8 in.; it is 5 ft. high in front; 10 ft. high at peak, of which 3 ft. is monitor with four windows; 5 ft. high at back wall; low front part is 8 ft. deep and high rear part is 12 ft. 8 in. deep. Eighty yearling hens and 4 big cockerels wintered in this house and gave fine results. The house will accommodate 150 Leghorns if necessary.

Figure 5 shows a portable type Woods' house and a small open-front Tolman house. Both of them appeared to be "cheerful places for fowls," altho located near the pond where they get the full sweep of the prevailing westerly winds off the lake and all the wind that blows from Northeast and Southeast. In summer these houses are used for growing stock and at time of picture taking held surplus sales stock. At present writing they are housing hens with chicks. The Woods' house here shown is 4 ft. 4 in. high in front; 7 ft. 9 in. high at peak, of which 2 ft. 9 in. is devoted to the monitor; back wall 4 ft. 6 in. high; low front section 6 ft. 4 in. deep, high section 10 ft. deep. Accommodates 40 adults or three times that many growing chicks. "Cheerful places for fowls?" We consider them so.

Prof. E. A. Burgess, the new head of the poultry department of the Michigan Agricultural College, does not believe in teaching poultry husbandry from text-books entirely, and for the first time in the history of the college, the students are being put directly in the field, caring for the poultry, while the more advanced students have been set to work building modern coops and chicken runs. Prof. Burgess believes in practical instruction.

Tom McCarey, prominent in the sporting world for the past fifteen years as a promoter of prize fights, has quit the business for good and has gone into the poultry business at Los Angeles, Cal. He is breeding S. C. Rhode Island Reds and has his male birds named after famous prize fighters. His favorite—the biggest and best bird in the flock—he has named "Jess Willard."

A poultry department has been added to the Oklahoma School for the Blind at Oklahoma City, and the students will be given practical instruction in poultry culture, altho most of them are totally blind.

Reasons for Selecting My Variety

This Article Won the \$25 Cash Prize Offered by
Chiles & Company, Mt. Sterling, Kentucky, in Their
Standardbred Contest. *By P. H. Grigsby, Gloucester, O.*



MY REASONS FOR BREEDING the Barred Rock are, in the order in which they appealed to me, entertainment, beauty and the difficulty of breeding high class specimens.

When I first took up the breeding of high class poultry, my occupation was that of stationary engineer, hoisting coal at a coal mine. This is a work which is very steady, monotonous and nerve-trying, and it was as a means of relaxation for evenings, holidays and Sundays that

I started back-lot poultry keeping. I have found it to be fascinating, healthful, entertaining and profitable. It is especially conducive to the health of a man and

more to the true fancier than the entire profits from a utility flock for the whole season.

I regard the exhibition of birds a little differently, perhaps, than some do. To me it is not the birds that are on trial, *but their owners.* When we exhibit our birds we place the results of our skill, thought, experience and labor in competition with that of our fellow exhibitors. And the victory shows who has learned the most, studied the deepest, and worked to the best advantage. It is not the strain that gives the victory, but the man behind the strain.

As to the beauty of the Barred Rock, they are second to none, being always bright and clean looking and with their uniformity of type and narrow ringlet barring, they are a feast for the eyes either at home in the yard or on display in the show room.

The ideal color of a Barred Rock is hard to describe. In fact it cannot be accurately described in words. It must be seen to be appreciated. The Standard calls for light and dark bars of equal width. The light bars to be grayish white and the dark bars stopping just short of positive black. Now there are several shades of grayish white, also several shades of black and they are very confusing to the amateur. It is hard for him, many times, to get the proper shades of color fixed in his mind. At first a bird with sharply defined black and white barring looked good to me, but I soon learned it was not what I wanted when I saw one with that grayish white color crossed with regular soft black bars extending to the skin—a thing which is difficult of attainment with this shade of color.

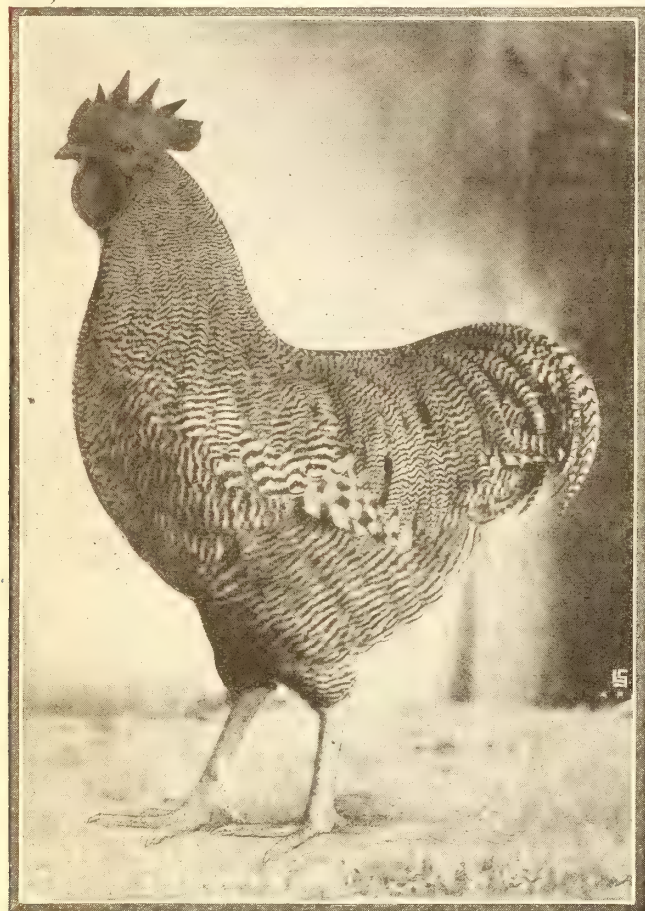
The Standard type of the Barred Rock I consider the most beautiful of any of the Standard breeds of poultry. When we produce a bird approximately close to the Standard description, with its bluish appearance (when viewed under certain light conditions), yellow legs and beaks; bright red eyes, comb and wattles; giving it a gay contrast of colors, we have, in my opinion, the most beautiful Standardbred fowl on earth. When I stand contemplating such a specimen, I can only express my feeling in the words of the poet:

"A thing of beauty is a joy forever;
Its loveliness increases; it will never
Pass into nothingness."

My third reason for selecting this variety is the interesting problems of breeding to be met and overcome. This is a variety where like does not produce like and many factors enter into the problem of mating. Practically all exhibition Barred Rocks are the product of the double mating system. This requires a second mating to produce males of exhibition color and vice versa. It is not necessary to go into a description here of the methods employed, as it has so frequently been described in the poultry press.

There are many points to be considered in mating to produce high class specimens. Line breeding to a certain extent is necessary and good judgment should be exercised in making the matings. Defects must be avoided. Color is a point that requires the most careful consideration. Birds with a brownish tinge, brassiness, weak or smutty undercolor mated with like defects will reproduce these defects in the offspring.

The best plan is to use fewer birds and mate only the best you have rather than to try to counteract defects in one bird by strong points in another. The proper blending of colors to produce good exhibition birds can be learned only by experience. Most important of all, the breeder must know the lineage of his birds for several generations back or all his calculations may be upset. One breeder cannot, as a rule, successfully mate another's birds, unless he has been intimately acquainted with them for several generations. So in conclusion let me say, I breed Barred Plymouth Rocks for their beauty, for the problems connected with their breeding and



A Boston, 1916, prize winning Barred Plymouth Rock. Owned and exhibited by Grove Hill Poultry Yards, Box 555, Waltham, Mass.

woman whose work compels them to remain indoors during working hours, for in the morning one arises earlier and spends a short time in the fresh air before breakfast in attending to the flock and the evenings are generally spent out of doors in the same way.

I have made it a point to make careful matings in my pens and I make some small matings experimentally, carefully marking each egg and chick, so I know the exact parentage of each. It is a source of absorbing interest to me to watch the results of each mating from the time the first chick feathers appear thru the different stages of feathering and development until the bird is fully matured and conditioned ready for the show room. Then comes the supreme moment—the thrill of victory of winning the ribbons, which is worth

the satisfaction of solving them and producing prize-winning specimens.

I have tried many forms of amusement to while away the time outside of working hours; the ball room with its simpering dudes and empty-headed butterflies of fashion; the gilded saloon with moments of exhilaration and resultant headache; the theatre and now more generally patronized "movies," as well as many other forms of amusement, but they all pale to insignificance to the genuine enjoyment which I derive from the time spent with, or in the interests of my flock of Barred Plymouth Rocks.

How I Produced and Prepared 1915 Exhibits

This Article Won the \$10 Cash Prize Offered by Chiles & Company, Mt. Sterling, Kentucky in Their Second Prize Contest.

By Louis C. Gercke, Augusta, Ga.

AFTER HAVING BRED mongrels for a number of years, I decided to invest in thoroughbreds. In the spring of 1912 I bought from a local breeder of S. C. White Orpingtons five pullets and one cockerel, four months of age, paying ten dollars for same. These grew to maturity and the following season I bred and raised from them about thirty youngsters. Having then developed a greater interest in poultry, in the fall of 1913, I decided to visit a poultry show so that I might figure out how my birds compared with those on exhibition. There is a saying that "comparisons are odious" and it is probably not necessary for me to state that it did not take me long to discover that my birds were culls when compared with those I saw at the show. I had a talk with one of the exhibitors while there and took his catalog home with me.

The following March (1914) I sold nearly all the birds that I had on hand for twenty dollars, and bought from this dealer a sitting of fifteen eggs, paying him fifteen dollars for same. From the chicks hatched from these eggs I raised two cockerels and three pullets, and the following fall I wanted to exhibit the birds at the local show, but I did not. My nerve failed me, I think. Anyway I had the courage to ask two breeders who had bred and exhibited birds for a number of years to come down and take a look at these five birds. After looking them over, they were quite excited about one of the cockerels, paying him all kinds of compliments and said that a bird of his class would cost a hundred dollars from any of the big breeders. I have never been able to tell those men what they did for me, but of this I am sure—they instilled more enthusiasm in me over the birds than in anything I have ever known.

At the local poultry show that fall I subscribed for three poultry magazines and I never invested money better at any time before or since. Every month when they arrived, I went thru them from cover to cover, advertisements included. And what a help they were to me! Each month their timely suggestions helped in many and varied ways. I feel that the great advances made in the poultry industry are largely the result of the clean, constructive work of the better class poultry magazines.

In January, 1915, out of the five birds I had on hand, I discarded one of the cockerels and one of the pullets on account of white in lobes, and bred from the best cockerel and two pullets. I made a close study of my birds and the eggs laid by them and soon learned to distinguish the eggs laid by these two pullets and set them separately. When the chicks from these eggs hatched I toe-marked them, that I might make no mistake in selecting the next year's breeders.

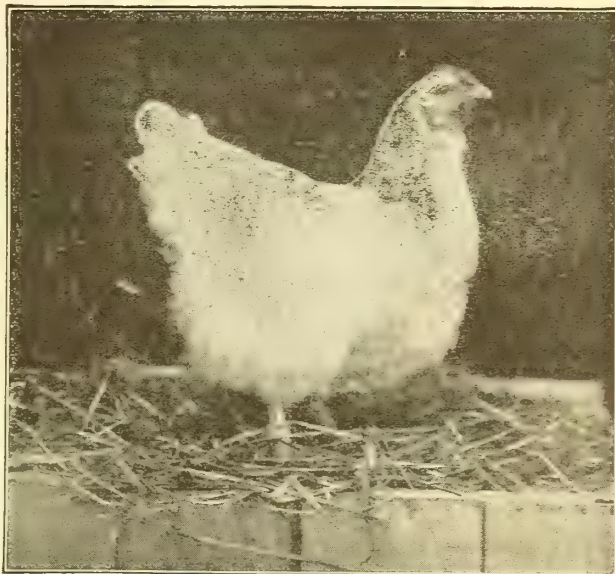
From the three birds, I hatched and reared twenty youngsters, and as the poultry magazines say, "Kept them growing" and did not forget to "watch for lice." I fed the chicks steamed oats dried down with corn meal, table scraps dried down with bran, a patent food with beef scraps, as well as corn, oats, and wheat fed in a litter. I never saw chicks grow better or develop more uniformly.

By fall, having watched their gradual development of beauty

in form and feather, thru the summer, I had gotten my nerve worked up to the point of entering them for exhibition at the fall show. A month and one-half before this time, I picked out fourteen birds that I intended to exhibit and these I put in training coops and started training and conditioning: I weighed every bird, and those under Standard weight I put on a fattening diet, also gave them a lesson every day in posing. Some of them took to the posing like ducks to water, others were a little wild at first, but before long I had them all so they would pose nicely.

There was one cockerel in particular that was an extraordinarily good one, except that his weight was not quite seven pounds and his comb was undeveloped. This bird I put on special diet, kept beef scrap before him all the time and gave him the best of care. This bird weighed eight and one-quarter pounds when he went into the show room—and won first in a class of fourteen. Two days before the show I had washed all the birds, just as I had read in the poultry magazines to do, and I made it a point to do a "jam up" job.

These birds went into the show room in tip top shape and in a class that was the second largest in the show, eight exhibitors, five from our local town and three from the state at large, making in all a class of one hundred and seventeen



A White Wyandotte hen with a trap-nest record of 233 eggs in one year. Owned by J. C. Fishel & Son, Hope, Ind.

White Orpingtons. I won as follows: first and fourth cock, first hen, second cockerel, first and second pullet. I was awarded first on pen (nine pens entered), but on protest from the other exhibitors my pen was disqualified because one point on one of the hen's comb lopped a little too much. I also won ten dollars for the best display of White Orpingtons and a fifty-dollar loving cup for best display all Orpingtons.

I quote from the *Augusta Chronicle* of November 10, in which the opinion of Judge Wolseiffer in regard to the exhibit is given: "Mr. Wolseiffer praised the White Orpingtons. He mentioned particularly the display of this breed by Louis Gercke of Augusta. One of Mr. Gercke's hens was awarded first prize, and Mr. Wolseiffer declared she is in the class with those shown at Madison Square Garden."

Directly from this show I sent a string of birds to the Columbus, Ga., Poultry Show, and in a class of seventy I won first cockerel, first hen, five dollars for second best hen in show, besides many thirds and fourths, every bird being placed. I made a mistake in exhibiting in the second show right on top of the first, as my birds should have been washed again. However, for a beginner I think I did wonderfully well, and am perfectly satisfied.

In summing up, I would say that I attribute my success, first from buying eggs of good stock from a thoroughly reputable dealer; second from the excellent points and reminders that I received from the poultry magazines, and third from attending strictly to the little details of the business.

Sex Control in Poultry Breeding

CHAPTER II—Some Results of Experiments. *By Herb E. Sharp*

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IT MUST BE APPARENT that any experiments along the line of sex-control must be conducted with some form of animal life whose span of life is sufficiently short to afford the observer ample opportunity to study several generations and to compare the results of each with the others, if he is to arrive at any reasonably accurate conclusions.

Among cattle it will be found that it takes practically twelve years to record the life work of a single individual, while to secure accurate records for, say, three generations would require approximately thirty-five years, and a longer period might become necessary, so that human life itself is all too short for one to confine his observations to cattle only, where this subject is to be discussed.

Under these conditions a cow and all her daughters would have to be remarkably persistent, and show a wonderful preponderance of one sex over the other in order to attract the attention of the most watchful attendant, or even the most careful cattle breeder.

With domestic fowls we not only have the advantage of a shorter span of life, but where the cow may raise ten calves in her twelve years, the hen may raise twenty—and sometimes thirty—chicks in a single year, and it is within the range of possible production for a hen to produce a hundred chicks during her life time. This gives us opportunity to observe one hundred times as much in five or six years with fowls as is possible with cattle in twelve years. Then, too, twelve months after mating our hens, we have the developed progeny to show us the results of our matings and to point out our errors.

Bearing these things in mind when we begin to look for

inherited characters, we find that evidences of this inheritance must be more readily apparent with fowls than with cattle, and any study of the question under discussion must give due consideration to the powers of hereditary influences.

Many a cow has been known to produce calves all, or nearly all, of one sex, and can we intelligently consider this question without asking whether or no the daughter of such a cow might not follow, more or less closely, her mother's record by virtue of inheritance?

In the spring of 1912 we mated twelve carefully selected, strong, yearling hens to a magnificent two-year-old cock bird, and prepared to mark the eggs as laid and the chicks as hatched, so that we could not only make a definite report as to the pen, but also of each individual hen,—our sole object was to secure definite information and the experiment was made with open mind.

There were 26 chicks from one of these hens and all cockerels. They were all disposed of, as was also the hen. For purposes of observation it would have been the part of wisdom to have retained her and some of her sons, but our interests seemed to lie in another direction.

There were 30 chicks from another hen and these were all pullets. We gave this hen a band number 100 and retained her, as well as some of her pullets for our future breeding work.

The chicks from the other hens were divided as to males and females in about as many different proportions as it was possible, running the whole scale from one extreme to the other, and so far as we could tell, no two of them were performing in a uniform manner.

With these records before us we promptly decided that if the male had exerted any influence over the sex of his progeny, whether by virtue of his greater strength, or for any other reason, then some two or more of these hens would have shown a degree of similarity in the proportions of the different sexes, as this was not apparent we gave up all hope of ever discovering the secret.

The hen No. 100 was an unusual hen in several ways. First, she was larger than any of the others for her age. She had as nearly perfect form as any of the others and apparently a little better length of feather. She was just as active, or possibly her length of wing was to her advantage and she did not hesitate to make use of it on any slight provocation. Her eggs were larger than those of the others and we thought a trifle more uniform. Her eggs were of a well rounded shape and might have been criticised for that same; for, at times, it was difficult to distinguish the large end from the small. In color they were all that could be desired, being rather richer than ordinary in the deep brown for which Black Langshans are famous.

When her chicks hatched out they seemed to have a slight advantage over the others in size, and they never lost that start, but fairly jumped into their new feathers, and little wings and long tails soon had her chicks so plainly marked that they were readily distinguishable from the others in the flock.

Considering all these points, we decided to place a son of that hen—if we could secure him—at the head of the first pen. For the next season our chief aim was to secure a son of hen No. 100. To accomplish this, or as near it as possible, we mated One Hundred back to the same old bird that we had used the season before, we called him "Champ" and he was a champion if there ever was one. We also gave him five of the best daughters of One Hundred, thus he was mated to his own daughters.

Most of the chicks were dressed for market as fast as we could make certain of the sexes, the records being kept accurately. Right in the middle of the season Champ, fighting through the fence, hooked a spur in the wire nearly three feet off the ground, and, his great weight was too much for flesh and blood, the left thigh was thrown out of joint at the hip. For nearly twelve months we labored over the old



GOLDEN CAMPINE
bred and owned by
GENSEMER BROS. CRESTON, OHIO.

soldier, keeping him alive for the sake of securing a cockerel, the son of One Hundred.

The records showed that fall that One Hundred had given us 18 chicks, and again all were pullets, but from her daughters we had 75 chicks and these were all pullets but two. We now had a cockerel that was one-fourth the blood of One Hundred and could use him in case Champ was not fit for service.

Now we had five pullets doing as their mother had done in the matter of sexes, and we were led to suspect that the trait might possibly be inherited. This tempted us to go further into the question of sex control.

As the breeding season came on again we planned to go further than ever into the question of sex control, and again we placed Champ at the head of the same old pen, One Hundred and her five daughters. He was in almost constant agony from the injured hip and we kept close watch on him, and carefully developed the best one of his sons to take his place if it should be necessary. He seemed to understand that there was important work for him to do and for days he led his little flock as proud as ever, tho he never seemed to notice the younger hens. He and One Hundred had been such close mates for so long that they were never far apart. Soon after she began to lay the old fellow began to fail. He seemed to lose courage, then gave up altogether and in a few days he was gone.

We immediately placed the cockerel in the pen, but he was young and immature and the eggs from the young hens proved infertile till later in the season. From One Hundred the eggs showed some fertility, but no apparent vitality save for just one egg. This egg is entitled to description, it was much longer than the others had been and, instead of being the same size at both ends, it tapered to a small point, this shape was very pronounced, yet in size the egg was as large as any, if not larger than any other she had ever laid.

That egg hatched, the only one of her sitting to show real vitality. We had called it our "\$1000 cockerel" to the amusement of our callers. But when the season was over, and we could again total accounts for the year, we found that One Hundred had given us 12 more daughters, these from her own grandson, and the "\$1000 cockerel" from old Champ; we promptly dubbed him "Young Champ" in honor of his noble sire.

At the close of the season of 1914, One Hundred had given us a total of 60 pullets and one cockerel in three years, and had lost a large part of two seasons, by reason of the accident to her life mate.

That cockerel hatched four full days before another chick was due, nights were chilly, the hen could not be trusted with a spark of life as valuable as he was, and a spark of life was all he was. So we fitted up a hot air brooder, *one chick size*; it looked like a five-pound lard pail with a kerosene lamp under it, but it did the work just the same, and today that big massive breasted fellow out there in the yard is the same little spark of life, even if he does not look it. The eggs from the younger hens brought us no males and the number of females was not recorded.

In the season of 1915 we mated Young Champ to his own mother One Hundred, three of his sisters and two of the best daughters of One Hundred and her grandson. The older hens have all maintained their records creditably. No. 31 and another daughter No. 41 have never yet produced a cockerel, but they must have, if their records were complete, not less than 40 chicks each to their credit, as we have sold a good many of their progeny. The two younger daughters have given us a very nice year's work, showing, for the two birds, a total of 39 pullets and 7 cockerels. The two older daughters have given us a son each for this year, while the number of daughters is in the neighborhood of 20 each for the season. Back of all this lies the fact that Champ and One Hundred were closely related, having come to us from flocks that had sprung from the same pair of fowls, and had come by way of much, rather less than more, intelligent inbreeding.

This was a great array of indisputable evidence, for to me this evidence is indisputable. The records had been kept by myself and the work was done either by own hands, or by the hands of a faithful and devoted wife, or at most an equally faithful sister; and we know that our records are cor-

rect, as only the small breeder can know the correctness of his records.

Facing this evidence, and knowing it to be correct, could any intelligent man question that sex tendencies are transmissible? Having started to test out one theory, had I not fairly well been shown another?

Two of the daughters of One Hundred were mated to a son of Champ by another hen and from this mating we have raised a very substantial number of chicks, tho we have sold many of their eggs, and there has been no attempt to keep either pedigrees or records, as there is a limit to the amount of this kind of work that can be done, yet the eggs from this pen, and their descendants, have given us very uniformly more than twice as many pullets as cockerels. Champ and One Hundred, being very closely related, must have carried about the same blood elements, characters, etc., hence if there is anything hereditary in the production of an unusual proportion of either males or females, they must both have carried the same elements, as it was this fact that really made him the great mate for her which he showed himself to be.

If there is any such thing possible as the sire influencing the sex of the progeny, then the same sire could not secure all females from one hen and at the same time all males from another.

If there is any such thing possible as the relative strength of the parents influencing the sex of the progeny, then we could not secure the same results, year after year, from the same hens, even tho we change the males.

If there is any such thing possible as the vigor of the male exerting an influence over the sex of the progeny, then Old Champ never would have produced all males from one hen and all females from another, when he was in his prime—and there have been few more powerful birds than he was—and then, when in his weakened condition, after a year of pain and suffering, produce a single chick, and that a cockerel from a hen that invariably gave him females when in his prime, and did the same with two other males subsequently.

If the relative number of females to the male should exert an influence over sex of the progeny, we cannot explain the fact that Champ produced all males from one hen and all females from another, when mated to twelve hens; then when the flock is reduced to five females, the chicks are practically all females; yet, when he, in his crippled condition, refuses to pay any attention to but one hen, he produces her first male.

This son, in his first year, and being mated to only five hens, has produced some 86 chicks and only nine of them are cockerels, or approximately 90% females.

If the age of the ovum at the time of fertilization should affect the sex of the progeny, why should two hens, running at large with the same male, produce such directly opposite results? Would they not be likely to be paired at about the same period of time in the passage of the ovum, for both? Would it be physically possible for one hen, and her daughters and granddaughters to go thru life all doing about the same thing, by having the ovum fertilized at exactly the same relative time in its passage, save on the rare occasions indicated by the one time in 60 or twice in 75, when we consider that a single pairing of the birds is sufficient for the fertilization of a comparatively large number of eggs?

If the male could control the sex of his progeny, in any degree, we never could find two females that when mated to the same male one would produce practically all males, while to the other would produce practically all females; but we would find a practical uniformity in the progeny of all females mated to the same male. This has never been found, where the females were not closely related to each other, either in poultry or cattle.

If the female controls the sex of her progeny, without regard to any outside, or we may say, foreign influence whatsoever, we see why all these phenomena, we see why one hen will produce all males and another all females when both are mated to the same male. We see why, when a female produces largely one sex, her daughters may be expected to repeat the performance, unless the sire has been from a family of opposite tendencies.

If we have an established trait, and bring in a sire from some other flock, how can we know whether he is going to build up or tear down the character we have sought to establish? Only by careful examination of pedigree and records

of the females shown therein,—for it is safe to reason that close relatives carry identical characters, while birds or animals not closely related may be viewed with suspicion,—for even tho the records may be practically identical, or very nearly so, we may set up such conflict that all fixed characteristics may be practically destroyed; White Leghorns and White Wyandottes are the same color, but if they be crossed we are sure to destroy a great many of the characteristics of both breeds and it is not at all certain that white fowls will be the result of the crossing.

Any trait or character, or mark, that is common to two or more closely related specimens, such as father and son, mother and daughter, or two brothers or sisters, may safely be considered as having hereditary value. Indeed among cattle breeders if a calf show a spot that is even slightly in resemblance of one carried by sire or dam, it is readily given a value as an inherited mark.

If a hen lays 300 eggs in a year, and her daughter should be given only half as much feed, obviously she cannot lay 300, and probably will lay less than half as many eggs, hence we see that the number of eggs a hen may lay does in fact depend more on the feed given than upon any laws of heredity; but if a hen is black, and her daughters be given less than enough feed to sustain life, the color will remain—for all practical purposes of illustration—even tho she be starved to death, the color then is inherited.

Now, if our records show not how many eggs may have been laid but how many were set, and what percentage of the hatch were males and what percentage were females, and we find a hen that is giving us a large proportion of one sex over the other, this percentage will probably remain the same whether the hen be well fed or poorly fed, we have a trait that is probably interited, and one that may be transmitted to the next generation, if we but use intelligent care in the selection of the mate.

In the case of hen One Hundred, and her daughters and granddaughters, we have an example where all females tested showed a very uniform percentage of males and females, chiefly females, which cannot be explained under any other theory save that of inheritance, and it would be next to impossible to select either the hen or the eggs that would produce a similar result under any other theory of sex control.

The number of eggs laid in a year, the number of pounds of butter or milk a dairy cow yields, all are somewhat dependent upon the quality and quantity of the feed given and so are not truly governed by the laws of inheritance; but the capacity to consume, and to turn to profitable account, large quantities of feed, is certainly an inherited character, and as such can be developed by breeding.

The color of the eggs is generally conceded to be an inherited character, and daughters will be found laying eggs similar in color to the eggs of the mother, and these characters will be transmitted thru the son to his daughters. We have the Leghorns and Minorcas that are expected to lay white shelled eggs, because the breeds have inherited that color from their ancestors. Certain other breeds are expected to lay eggs of different colors, buff, and brown, and they have inherited these colors.

Is it impossible that a hen whose eggs are largely of one certain shape, as for instance short and round, should transmit this trait to her daughters? If so, how are we to develop a strain, or breed, that will give us eggs of any uniform shape? In the case of the hen One Hundred, her eggs were nearly all short and round, so were those of her daughters, as were those of her granddaughters; so here again we have some evidence that this trait was transmitted. It is readily recognized that if a hen persistently lays a short round egg, the mating with a male from a hen that laid a long slender egg would not alter the shape of the eggs laid by the hen. If a hen were normally laying brown eggs and we mate her with a Leghorn male, that would not alter the color of her eggs.

For several years, even before taking up the study of the subject of sex control, I had, in a superficial manner, been watching the relations between the shape of the egg and the sex of the chick that might be hatched therefrom, and as a boy had heard the old assertion made that all pointed eggs produced males, while all round ones produced females, and have been told that I knew little about fowls if I did not know that much. I call to mind one young fellow who could tell

the sex of the chick by simply glancing at the shape of the eggs, and he proudly showed me two thousand eggs just going to his incubators, "not a dozen cockerels in the wagon load, I betcha!" His hatch produced a trifle over 50% cockerels.

After carefully comparing 25 to 30 eggs from one hen, I have marked the chicks from those few that were long and slender and found them producing the few cockerels that have appeared, and am of the belief that when we find a hen whose eggs are very nearly uniform, with a pronounced disposition in either direction, that the few exceptional eggs will bear some relationship to the sex of the chick contained therein. I am not at all certain that this will be found to be always reliable, but I have found some indications that there is some indefinite relationship between the shape of the egg and the sex of the chick that may be hatched from it.

If this be true, in ever so slight a degree, then we can readily see that the hen must in some way control the sex of the chick, for the fertile eggs and the sterile eggs from the same hen will average to carry about the same relative shapes, and as the male cannot alter the shape of the sterile egg, then, as they carry the same proportional shapes, he cannot alter or influence the shapes of the fertile eggs, and by virtue of whatever slight relationship there may be he cannot control, affect, nor influence the sex of his own progeny that hatches from those eggs.

If the hen controls the sex of her progeny, then this principle must run all thru nature; the cow must control the sex of her calves, the mare must control the sex of her colts, and so on thru the entire list.

If the female controls the sex of her progeny, then the female with a strong disposition towards a high percentage of either sex, must also have some power to transmit the same to her daughters, and thru her sons to their daughters, in exactly the same manner that all other inherited characters are transmitted from parent to offspring.

If those who claim the inheritance of high fecundity, could point to only one hen with a record of production of, say, 300 eggs for one year, that had produced one daughter with a like high record, or with a son that from all his daughters could show just one with a similar record, they would hail it as absolute and positive, irrefutable proof of the power of the laws of inheritance,—they would not ask for two daughters or a whole flock of granddaughters to prove their claims.

We have shown the work of one hen whose progeny were 60 pullets and one cockerel, and whose daughters and granddaughters, so far as we have been able to keep accurate records, have all produced uniformly more than 85% females, and we claim that this is evidence of the fact that *sex tendencies are transmissible*, a disposition to produce 90% of one sex may be inherited by the progeny.

Where we have a black hen and mate her to a white male, we do not expect all the chicks to be either black or white, but some will be one color, while some will be the other and some will try to be both, so if we have a hen that comes from a family producing nearly all females and we mate her to a male from a family producing nearly all males, we need not expect to preserve either family, and will probably destroy both. We have crossed two distinct lines as truly as tho we had mated Wyandottes and Leghorns, or Jerseys and Holsteins.

Whether the descendants of hen One Hundred should fail to maintain her record in the future or not, they have revealed the true principle by which the sex of unborn generations is controlled, and this principle can be applied to every form of live stock, where man may select the matings, and it is possible to develop, by judicious care, families or strains that will regularly give their owners a high percentage of either sex that may be desired.

The first requirement is pure blood, that inbreeding may be carried on indefinitely, without danger of reversion to some long forgotten and discarded type. This purity of blood can only be found in those forms that have been developed from wild forms without resort to crossing two or more forms.

Many characters are seemingly possessed by some individuals, but the power to transmit them to their progeny is lacking, they have not the required prepotency to stamp their characters on the next generation, and no doubt females will be found that apparently show a desirable sex tendency, and will then fail to stamp that on their progeny. Such females,

by their failure, do not prove that sex tendencies cannot be inherited, they only serve to prove their own weakness.

When one is found that not only has the tendency, but has with it the power to pass it on to her progeny, so that her daughter also shows the trait, she is a jewel and her blood should be preserved.

The preservation of the blood of such a female may well be a work requiring both time and patience, as well as intelligent care, and this was shown in the case of One Hundred, when it required three years of exact precision and the most desperate kind of care to secure her first son, and by just the width of a hair we would have lost the entire line by losing her life mate before we secured the son.

The last egg ever fertilized by Old Champ, was the first son of that hen, and of all the eggs she has laid since then there is not one yet to produce a second son.

No other male within our knowledge was a fit mate to One Hundred and today with Young Champ, and nine of his sons

(Next Chapter will discuss "Physiological Causes.")

on the place, of all of them there is only one bird we really would care to risk to mate with her, that is Young Champ and he is her own son. He is most like her and of course the strongest in her characters and blood lines.

The figures are from our own records and as we may be, to some extent, interested in exploiting the discovery, perhaps too much credence better not be placed in these statements until something further has been presented, but in the records of other men, records that have been kept as authentically as is humanly possible, without regard to what they might show, we find some corroborative evidence that is not subject to any such restrictions.

From records that are semi-public property, and have been kept openly for years, we take pleasure in presenting such portions as may have a bearing on the question, giving sufficient in each case to show the actual trend of affairs, and welcoming any criticism that may be made, we hope to make the case complete.

Poultry Yard Pointers for May

Fresh Air for Hens in Summer—Egg-Eating Among Hens—Fattening Cockerels for Market—Pens for Growing Chicks.

By Maurice H. Decker



THE MAIN THOUGHT in the mind of the poultryman who is planning a new hen house, seems to be that of constructing it in such manner as to keep his fowls warm and comfortable during the severe weather of the winter months. Means for the provision of fresh air and ample ventilation at all seasons of the year are usually second in importance in his mind when in reality and to be consistent with practicability they should hold first place in his consideration. Vigorous, healthy fowls seldom suffer from cold as long as they are protected from draughts and are

well fed, but there are numerous flocks which suffer intensely during the hot sultry days of July and August when housed in buildings built to exclude the cold and chill of winter. A very good illustration of the difference in the amounts of ventilation needed at different seasons of the year may be made by reference to your own sleeping room. During cold zero weather you obtain plenty of oxygen by lowering a sash half way down, but in mid-summer you find it difficult to be comfortable with all the windows and the door open. The right way is therefore to design or remodel all poultry buildings with the view in mind of providing the maximum of comfort at all seasons and not with one idea of guarding against the maximum of winter's temperature.

Lack of air currents, its different density, high body heat of the fowls, the fumes from their droppings, which are usually frozen in winter, and the fact that hens are many times doubled up to gain extra room for chicks, are all good reasons why one should pay particular attention to the housing of his poultry in warm weather. Consider for a moment the condition of the air about the heads of fowls roosting in the rear of a building twenty feet deep which is tight upon three sides and depends upon the openings in its front only for ventilation during the hot summer months. The worst case of roup I ever saw in all my experience was contracted by a Barred Rock hen in a crowded tightly built house in the month of May and I doubt not but many cases of disease, getting out of condition and slackening up in egg yields in the early summer can be traced directly to a lack of proper air circulation. At the first evidences of warm weather, every poultryman should test out his buildings thoroly to discover if his fowls are receiving a sufficient supply of oxygen at night. This may be done by entering the house after they have gone to roost and if the air is heavy, close, strong and offensive to the sense of smell, steps to correct these conditions should be taken immediately. Breeding stock in particular should receive one's most careful attention in this particular. A breeding

fowl is usually carefully cared for the year thru for but a few months' service in the hatching season, and unsanitary, unhealthful conditions will defeat the poultryman's purpose and result in weakly debilitated chicks which quickly fall the easy prey of disease and sickness.

The proper and ideal place for breeders and layers, too, when the weather begins to warm up, is out of doors the entire twenty-four hours. They will lay better, the eggs will hatch better and their health be better if they are allowed to roost in the orchard or shade trees. Fowls that for obvious reasons must be housed the year round, may be kept comfortable by providing not more than three runs of roosts (two would be better) and by moving these up close to the open front or opening rear ventilators of ample proportions. I have yet to discover a long laying house sixteen to twenty feet deep of the shed or hip roof design that will furnish enough fresh air in warm weather without openings in the



One of the many high-class breeding cockerels on the Rosedale Egg Farm, Port Huron, Mich.

rear wall. Some of the Experimental Stations have developed types of construction which embody a sealed roosting compartment and a long narrow ventilator under the eaves of the building, but in my mind there is nothing that equals good sized square openings two and a half to three feet in size for letting in fresh air around the roosts. These can easily be rendered draft proof for winter use by tacking over them pieces of prepared roofing either upon the outside, or the inside, or both. Colony houses are more easy to ventilate, as they are not usually so deep as laying houses and generally possess side windows. One hundred growing chicks in an 8x8 ft. colony house will require more air than fifteen hens in the same building and no more should be allowed to roost in one flock no matter how open the construction. We have found the best way to ventilate small brooders in warm weather is to make a wire netting frame to fit inside the top and then raise the roof four to six inches. This allows the heated air to pass upward and outside in a natural manner.



Geo. Rudy, of Mattoon, Ill., showed a fine string of his White Wyandottes at the Greater Chicago Show. The above illustration shows one of his winners.

Egg-eating is a habit that annually causes serious losses to poultry raisers in every community. This trouble is a very common one in the poultry yard and spreads rapidly among the flock if, as is usually the case, it starts with one individual. Once the habit is firmly established, it is a very difficult one to break up and usually the only efficient remedy is to kill or dispose of the entire flock. There are a number of conditions which cause this abnormal craving or appetite, the most common being a lack of range and exercise, broken eggs caused by fighting hens, freezing or by being dropped upon the floor from the roosts at night, rations lacking the necessary animal mineral, and green food elements and by the feeding of egg shells in whole or partially crushed form.

Egg-eating and its kindred vice, feather pulling, are of rare occurrence in flocks supplied with ample range, an abundance of fresh growing green stuff and a well balanced ration. Close confinement and the resulting lack of exercise are ideal conditions for breeding this unprofitable habit and the most efficacious remedy lies in its prevention rather than its cure. Laying hens should therefore be supplied with a reasonable amount of range, their grain fed in deep litter or in automatic feeders to keep them busy hustling for their meals,

oyster shell, grit and charcoal should be before them at all times and the necessary animal food, preferably milk or beef scraps and an ample supply of greens furnished. Steamed alfalfa is one of the easiest forms of green food to secure and prepare at all seasons of the year and in addition to its protein and succulent bulk it contains considerable lime in an easily assimilated form. Eggs are rich in protein and mineral elements and if these are lacking in the hens rations her craving for them is liable to start her in this habit the moment a favorable opportunity offers. In cold weather eggs should be gathered frequently to prevent freezing and the nests kept well padded with soft material to reduce breakage. Egg shells fed to poultry should be crushed up fine enough to preclude any chance of their being identified by the hens with whole eggs and care taken that none of the meat remains on the inside of the shells, which in the case of boiled eggs would easily be possible.

There are several cures which may be worth trying if the habit of egg-eating is present in the flock. One of the best is to partition off one end of the pen to accommodate the nests which should be of just the size to hold one hen at a time. By keeping this room and the nests fairly dark and by gathering the eggs at frequent intervals it will be possible to gradually wean the hens away from their bad habits. Another plan is to discover the worst offenders and file down their bills at the end until tender but not enough to cause bleeding. A few china nest eggs are then placed upon the floor of the poultry house for them to pick away at and the regular eggs kept gathered up promptly. Some poultry raisers fill eggs with condiments, such as pepper or mustard or use rotten eggs for the hens to break open, but it is doubtful in my mind if these practices will result in anything more than putting the fowls out of condition for a time and curtailing the egg yield. Hens are creatures of habit, but also of short memory, and if managed correctly and prevented from continuing this vice for a few weeks it is possible for them to outgrow their practice of eating eggs.

* * *

There is no phase of the poultry business that has attained the wide-spread popularity and grown to such enormous proportions as the traffic in day-old chicks. This business embodies the underlying principle upon which all successful transactions must be based—full value and a bargain to both buyer and seller, something that other departments of the poultry industry have not been persistently accused of. Nearly every poultry plant that has eggs and stock for sale is in the market for day-old chick business and in addition there are a number of large plants scattered over the country which specialize in them alone, buying up thousands of eggs from neighboring keepers of pure-bred stock, hatching them in their mammoth incubators and shipping the chicks out over the country to their numerous customers. It is not uncommon for these plants to have an incubator capacity of 120,000 eggs at one setting. There are two favorable conditions which make the shipment of baby chicks just taken from the incubator to distances as great as 1000 miles safe and practical. One is that each chick is supplied by nature with sufficient food (in the form of the egg yolk) to make feeding unnecessary, in fact injurious for from two to three days after hatching. The other is the principle upon which the success of the fireless brooders is based; being that 25 of the tiny little fellows closely packed in one compartment of the fiber board boxes, in which they are shipped, generate enough heat of their own to keep each and every one warm and comfortable until their destination is reached. Chicks are shipped in boxes containing 25, 50 and 100 chicks, the 50 size having two compartments and the 100 size four. The losses during transit are very small, in fact much smaller than one would naturally suppose. The hatcheries usually guarantee safe arrival and full count and place two to three extra chicks in each compartment as insurance against possible loss. Good strong chicks should, however, come thru, even considerable distances, safe and sound, and many times the purchaser upon opening up the box finds he has 105 lively little fellows instead of the even 100 ordered and paid for.

Our largest venture in buying chicks was the purchase of 1100 a few years ago. These came a distance of about 200 miles, arrived in excellent shape, there being only twelve

dead ones in the entire lot, and when they were counted and checked up we found we had 32 extra chicks and were that number to the good. We purchased at the same time one of the then new stove brooders, to care for this flock and later found our investment to be a fairly profitable one, both financially and in the matter of experience gained. These chicks we purchased with the express purpose of raising them to be sold as broilers and when the last one had left the farm they showed the following record:

930 broilers sold for.....	\$567.30
900 chicks at 9c.....	\$ 81.00
200 chicks at 12c.....	24.00
Express	3.40
Feed and fuel.....	266.00
	<hr/> 374.40

Net profit.....\$192.90

If one is experienced in rearing baby chicks he will find several hundred chicks and one of the hard coal stove brooders a very good investment. It is possible to obtain some very good stock at reasonable prices and this can be sorted out and retained for breeders, while the balance, if handled properly, can be sold as market poultry and should pay all expenses of purchase and rearing. I regard day-old chicks as the safest and cheapest means for acquiring a start with purebred fowls, in fact many a substantial business with paying poultry has grown from the purchase of a few dozen chicks. When buying chicks one should not make the mistake of ordering them to come too early in the season. May is the ideal month for growing chicks and even the heavier breeds will mature in time enough to get in a few months winter laying if pushed along and given unlimited feed and chances for development. I recall a case of a poultryman friend who was going to get in on the enormous profits of the early hatched fowl and who ordered a number of Orpington chicks to be shipped in January. When fall arrived he found that when the total expense was added up, including losses, his remaining hens had cost him just five times as much as their eggs would sell for if they layed every day for the next two years. May hatches are not so liable to be exposed to extremes of temperature by Express Agents, who somehow have a disposition for setting them outside if the weather is cold and inside if very warm.

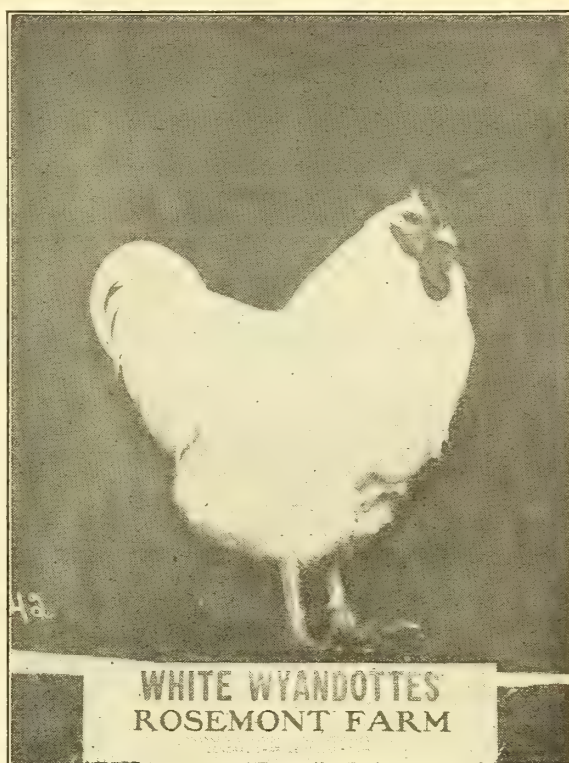
Wyandotte stock is excellent for two to two and a half pound broilers. For such, one should seldom pay over twelve cents, ten would be better. Leghorn chicks are very easy to raise and a good start toward a paying egg business may be made with them. I would rather take a chance with 1000 May hatched Leghorn chicks than with any other sort, for they are especially adapted to wholesale brooding and may be reared with a minimum of trouble and expense. If one wishes to buy high grade stock for the foundation for a quality poultry business, a few chicks of unquestionable breeding, hatched in the favorable weather of this month will prove the cheapest and surest means toward that end.

Since cockerels constitute, as a rule, about 50% of all chickens hatched and are depended upon by many poultrymen to sell for enough money to cover the cost of raising the pullets to laying age, it is but consistent that they be given every possible opportunity to attain the maximum profitable development. Our experience with cockerels has shown that the most profit is realized by selling Leghorn males as soon as they reach the weights of 1½ and 2 pounds, and general purpose cockerels, such as the Plymouth Rocks, at weights of 5 pounds upward. Young fowls intended for market poultry require no different care and attention from the regular broods until they reach the age of six to eight weeks, when they are removed to separate pens and fed for steady even growth. We have found our regular rations for layers to give best results in developing broilers and roasters, which saves us considerable trouble, as we have but one set of feeds to buy and mix. These are a mash consisting of

50 pounds Bran
50 pounds Middlings
20 pounds Beef Scrap
and a grain mixture of
40 pounds Cracked Corn
40 pounds Wheat
20 pounds Oats

but for our market fowls we omit the oats from the grain and add it ground to the mash, which is fed wet, with an equal bulk of steamed alfalfa-molasses feed (mealed alfalfa with 15% molasses). We put the birds in roomy pens with plenty of shade and endeavor to pay particular attention to their health and sanitary conditions of their surroundings. When they are ready to be finished off, instead of moving them to fattening crates and abruptly switching them over to a fattening ration, we leave them in the pens, decreasing the amount of space if necessary and gradually substitute corn meal for the bran in the mash and gradually omit the alfalfa. We also place in the pens beef scraps in hoppers, for protein foods are the ones that put on the flesh and well fed cockerels can generally be trusted to eat sufficient to balance the other feeds if given a chance. During the final week the grain food is left off and the fowls get a twice-daily feeding of the mash, which is now composed of

40 pounds Corn Meal
30 pounds Middlings
15 pounds Ground Oats
15 pounds Beef Scrap.



First White Wyandotte cockerel, Franklin, Pa., 1915. Owned by Rosemount Farms, Franklin, Pa.

A few points to remember are that while broilers are reasonably easy to finish off, the art of promoting a steady, healthy, profitable growth in roasting chickens is only to be acquired after considerable experience. Also that long continued feeding of ground feed alone results in impaired appetites and digestive systems and puts the fowls "off their feed" and causes unprofitable set-backs. The yards in which the fowls are penned should be disced at frequent intervals and sown to oats or wheat, not so much in the expectation of any of it growing, but to give the birds welcome exercise in scratching it out. Plenty of greens must be given and some preparation or combination of mineral elements as is recommended in Dr. Woods' book "How to Raise Chicks" may wisely be included in the ration. Automatic feeders throttled down so as to scatter but a few grains at a time will prove valuable aids in keeping the fowls full-fed but active and expectant. We have found that young fowls grow and fatten more quickly in pens with a cool well-ventilated house in which to roost than when confined in crates. Cold or at least cool drinking water is to be recommended as much as the use of condiments to stimulate false appetites deplored.

"WE LEAD, OTHERS FOLLOW"

EDITORIAL

American Poultry Journal

Entered as Second-Class Matter August 9, 1886, at the Postoffice at Chicago, Ill., under Act of March 3, 1879

65,000 American Poultry Journals for
May, 1916.

State of Illinois, County of Cook, ss.:

G. M. Atwell, president of the Atwell
Printing House, Chicago, being duly sworn,
certifies that the American Poultry Journal
has contracted for printing and binding
65,000 copies of the May, 1916, issue.

G. M. ATWELL.

Subscribed and sworn to before me this
15th day of April, 1916.

[SEAL]

HENRY G. EISERT,
Notary Public.

OUR GUARANTEE.

We guarantee our subscribers against
loss due to fraudulent misrepresentation in
any display advertisement appearing in the
American Poultry Journal, providing the
subscriber when ordering the fowls or mer-
chandise states that the advertisement was
seen in the American Poultry Journal, and
places the order during the month or
months in which the ad is inserted in our
columns and notifies us of the fraudulent
misrepresentation of the advertiser, giving
full particulars, as soon as it occurs.

TRADE MARK REGISTERED,
No. 74,059.

Issued the first of each month.

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**American Poultry Journal
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JAS. W. BELL, President,
542 So. Dearborn St., Chicago, Ill.

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Advertising Representatives.

SHEPARD STRONG

F. D. ROGERS

SUBSCRIPTION PRICE.

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3 years, \$2.00.

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Look at the address on your wrapper.
See that it is absolutely correct and notify
us of any mistake, no matter how slight.
Note the expiration date which appears
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If you change your address give both
your old and new address as well as your
subscription number when notifying us of
the change.

AMERICAN POULTRY JOURNAL is
the oldest poultry paper in America. It has
a national and world-wide reputation. The
best writers on poultry matters contribute
to its columns. It receives the patronage
and endorsement of the foremost repre-
sentative breeders of standard poultry and
manufacturers of poultry appliances in the
country.



VIEWING THE MATTER chiefly from the
interest of pure breeds, the specialty
club or breed organization would ap-
pear to be the proper place in which to
develop and make popular priced breed
standards and breeding guides. Their
later acceptance by the American Poul-
try Association, if such course seemed
desirable, might also be matter of more

moment to the specialty club or breed organization
than to anyone else. If the men who develop, pro-
mote, breed, and exhibit a variety are not the proper
persons to recommend how that breed or variety
shall be bred, exhibited and judged, it is difficult to
understand in what way men who do not breed such
pure breeds are qualified to say what the breed shall
be like, what shall constitute exhibition perfection,
what shall disqualify and so on.

We find in American Poultry Association litera-
ture the statement, "There would be no pure breed
poultry business if it were not for the American
Poultry Association. Every bird you sell at a price
above market poultry is due to the American Poul-
try Association."

We wonder if that statement will bear even brief
analysis. We believe that there are a good many
so-called pure breeds of poultry that are not today
"recognized" by the American Poultry Association
in its Standard. Some of them have been vigorously
fighting for admission for some time and have been
repeatedly turned down. Some have been thrown
into the discard after being in earlier Standards and
some apparently are not seeking admission. It
strikes us that the real breeders, thru their own
work and in co-operation thru their specialty or-
ganization, have been the chief factors in promoting

pure bred poultry. We are willing to be enlight-
ened on this subject.

A good many people concede that the Black Lang-
shans are one of the oldest of the pure breeds. It
is even claimed that they were developed and bred
pure in China several thousand years ago and were
for centuries the leading pure breed—if not the only
one—of northern China. No less an authority than
the veteran I. K. Felch says of the Black Langshans:

"The first importation of them to America was
made in 1876, by E. A. Samuels, the ornithologist
of Waltham, Mass., from the Langshan Hills of
China. About four years before this (February,
1872) they were imported by Major Croad of Sus-
sex, England, from the same quarter. Those of us
who were active in poultry culture at that time re-
member the bitter antagonism exhibited toward
them by those breeders then trying to make the
Black Cochin popular. * * * *

"The Langshan Hills of northern China is the
original home of this breed, as it was from there
that the first specimens, sent both to America and
England, were imported. It matters not how fully
one may write of its advent, its history in America
is what interests the readers of today. During the
seven years from its advent to 1883, when at Wor-
cester it secured admission to the American Stand-
ard, its path was a thorny one for any breed—no
breed probably ever had such opposition and prob-
ably none ever had a greater triumph in its accept-
ance. A petition of nearly a thousand names ac-
complished its admission."

When it takes seven years of effort on the part of
the breeders and a petition signed by nearly a thou-
sand of them to secure "recognition" for one of
the "purest of the pure breeds" it certainly is

"going some" in behalf of "every poultry interest."

Undoubtedly some of the fanciers of both old and modern fancy fowl not yet "recognized" can supply a more modern tale that will nearly match this ancient history. We fancy we can recall a few "turn downs" at the more recent conventions. What we do not understand is, why don't the breeders and their specialty organizations wake up and push the cause of their favorites more effectively?

The man who urges "burning questions" might add to his list,—Favoritism and Nationalism, or Fanciership and Fraternalism, which?



SOME SIX MONTHS AGO the American Poultry Association, thru a small coterie of its members, started a pretended house cleaning campaign for poultrymen. Now, house cleaning that is honest and from within, is a good thing, and, as in any other business, there are a good many things in Association methods, in the business transactions of members, in all sorts of poultry advertising and particularly in American Poultry Association advertising (official or semi-official) that could be cleaned up and improved to the great betterment of "every poultry interest." However, honest house cleaning appears to have been furthest from the thoughts of the investigating committee. It developed into a campaign of spurious reform and "purify the other fellow"; particularly the other fellow with little political influence or who does not use large advertising space.

Advertising and business methods — commonly employed by members of the investigating committee, by the Association, and by influential "personages"—considered as merely "harmless statements" and legitimate when employed by "recognized" interests, became—in the eyes of the committee—acts of rank piracy when used by alleged "hucksters," "stringmen" and "57 variety" poultry breeders. Vigorous efforts have been made to defame, revile and ruin such unrecognized poultry breeders and they have been termed "pirates and parasites" and "vampires that live on the blood of honest poultrymen."

It is difficult to understand the "virtue" and "sincerity" of a man, or men, conducting such a campaign and doing the very things that are called dishonest in competitors and for which they are publicly flayed. Such virtue and such sincerity are truly remarkable and it is a wonder that persons in a "glass house" of that sort are disposed to cast so many stones. It might be well to remember,—
"You can fool some of the people all of the time, a part of the people some of the time, but you can't fool all of the people all of the time."

That the American Poultry Association stands in need of a genuine house cleaning—a clean up from within—must be apparent to every thinking member. It should also be apparent that the poultry breeders, and not the poultry editors, should conduct the business of the organization. Let the editors confine their efforts to comment on Association affairs and reports of the meetings and give the men who are really breeding poultry an opportunity to manage their own organization. The American Poultry Association has been used for a long time to fatten political pork, but the average member is sufficiently intelligent to do a little think-

ing for himself and to take a hand in the work of the Association. We do not know how long it will take breeders to wake up, be represented by a majority and get out from under machine rule,—but it certainly does seem that this spurious reform, "purify the other fellow," stifle competitors, and keep right on "milking the suckers," cannot continue to fool members very much longer.

Review of a complete file of the leading poultry journals for the past 20 years will present some interesting evidence concerning the "nigger in the wood pile" that should convince even "doubting Thomas." We commend to our readers the editorials in *Successful Poultry Journal* for May, 1904, also editorials and comment of several other journals in *Inland Poultry Journal* for May, 1904. Much of the comment then made—twelve years ago—might have been written yesterday, it is so closely relevant to present day conditions. From such poultry journal files as are in our possession it would appear that history is repeating itself altogether too frequently for the good of the American Poultry Association or for the best development of "every poultry interest."

Poultry breeders should wake up and get busy.



AMONG THE LATEST uses to which feathers are being put is their introduction into woolen and cotton yarns. The feathers are first put thru a process of feather-tearing (known in Germany as *Federreissen*) by which operation the feathers are freed of their shafts and other hard portions which would interfere with spinning.

According to an article in *The Textile World Journal*, feather material is introduced into yarns in various forms and the soft feathers of the smaller birds are chiefly used. Apparently here is a new use for the softer, moderate length fiber, feathers of our domestic fowls and we may shortly be wearing clothing, underwear and hosiery, colored and made lighter in weight by the introduction of feather material into the yarn from which such goods are knit or woven.

The author of the article states:

"The samples of feather-yarns which have been examined by the writer have the color of the feather constituents as near as possible to the prevailing color of the ground yarn, but there is no reason why the principle should not be extended in various directions. Feathers can be obtained in a large variety of very useful colors, and now that dyes are scarce the yarns could be worked in the undyed white state and the colored feathers introduced to impart a mixture effect. Tufts of black and brown show quite effectively, and even in small quantities would produce the natural colored yarns for the hosiery trade, where from 5 to 10 per cent of color is quite effective for the work.

"The preparation of feathers for yarns intended for underwear would need to be carried out with the utmost care or the article would prove uncomfortable for the wearer. Probably a safer scope for their use is in outer garments, and there seems no reason why such feather-tufts should not be useful in imparting nubs of color to woven goods. From the very light nature of the structure, their use in textile-manufacture is not so much for the purpose of giving increased weight, but rather to modify

the surface-appearance of the yarn."

The author adds that, "On account of the lightness of the material in comparison to its bulk, the feather-fibre in a small weight would give in color-effect and appearance the result of a much larger quantity." And he considers that feather-yarns would produce very desirable low priced goods and also "improve the handle" of yarns considerably without causing a corresponding increase in price.

Pretty soon we will have our fanciers attending the shows decked out from skin to surface in clothing manufactured from the borrowed plumes of their favorite varieties. What an opportunity for Red breeders to have real Red neckties knit from Red-feather-yarn. "Line forms at the right, gentlemen, don't crowd, plenty of genuine feather goods for everybody."

Awards in Chiles Co. Contest.

WE WONDER if Chiles & Co., Mt. Sterling, Ky., fully realized what they were putting up to the editorial department of this magazine, and how they were going to stir up the poultry fanciers of this country, when they made that double-header cash prize offer for articles announced in our March issue?

We confess we were curious to know what sort of articles would be written under the requirement that "No egg bosh, utility, or anything of that kind to figure in the article." Our curiosity is satisfied, our confidence in real fanciers has been "restored" and improved by several hundred per cent, and we never had a more difficult contest to decide. Over one hundred answers were received from all over the country. A great many articles of unusual excellence were included in the competition for both prizes and we expect to publish most of these articles as time and space permits.

Abundant good reasons were given for selecting a variety to fancy for fancy's sake and among the breeds and varieties represented in the contest were:

S. C. Buff Orpingtons, S. C. White Leghorns, Barred Plymouth Rocks, Rhode Island Reds, Spangled Wyandottes, Dark Cornish, S. C. Brown Leghorns, S. C. Buff Minorcas, Hamburgs, White Minorcas, S. C. White Orpingtons, Anconas, Sicilian Buttercups, White Wyandottes, Black Langshans, White Plymouth Rocks, Silver Laced Wyandottes, Golden Campines, Columbian Plymouth Rocks, Buff Wyandottes and Houdans. The whole continent was represented



GOLDEN ROD

Second prize Buff Orpington cockerel at Canton, Ill., 1914. Score 94½. Bred and owned by Richard M. Seward, R. 15, Lewistown, Ill.

from Canada to the Gulf and from Atlantic to Pacific. It was a great contest.

The \$25 cash prize for best article on "Reasons for Selecting My Variety" goes to a fancier of Barred Plymouth Rocks, P. H. Grigsby, Gloucester, Ohio, and his article appears in this issue.

The \$10 cash prize for best article on "How I Produced and Prepared My 1915 Exhibits" goes to a breeder of S. C. White Orpingtons, Louis C. Gercke, Augusta, Georgia, and his article will be found on another page.

Chiles & Co. have every reason for congratulations over results of this contest

and our readers will appreciate the articles which the generosity of our good friends in "Old Kentucky" have made possible. It will take time to print these articles, but most of them will be published for their real interest and for the good of the cause.

Humbug Reform.

AFTER reading the editorials and other matter in the *Un-Reliable* for April, it certainly looks as if the poultry public is being asked to endorse the antics of American Poultry Association political bossism and to hasten to turn over their ten-dollar bills that the Great Munchausen of the poultry world may get a chance to handle same. According to common report, it has always been an axiom of "side-show barkers" that "the American public likes to be humbugged" and possibly this is true within certain limits. Nevertheless there is a limit. It would appear that that limit is pretty nearly reached when an editor "runs amuck" with a humbug reform movement, regardless of the injury and damage to legitimate business.

After wading thru many pages of quibble and controversy in aforesaid publication, which leads to nowhere and which continues to clamor about a "volunteer report" and its authorship—altho said report was adopted, amended and recommended and accepted before being reconsidered—when the fact of authorship is a matter of little or no public concern since all four findings of the Executive Board were essentially the same—we are reminded of the story of the greatest fakir among side-showmen.

As the story goes, the side-show advertised a wonderful, astounding, stupendous, sacred, white elephant direct from the innermost shrine of India. The crowds flocked to the show and soon it became a problem of how to get rid of the people,—after they had viewed the artistically calcimined pachyderm,—before they became troublesome, and to make room that others might spend money for admission. So the enterprising showman had his painter hurriedly letter a large sign, "This Way to the Egress" and placed same conspicuously above a door opposite the entrance. The crowds eager to see an "Egress" in captivity hastened thru the door, only to find themselves in the street. Naturally,

RED SUSSEX

growers of all poultry. Best of layers. My 1st cockerel at last New York State Fair weighed 9 lbs. in 5½ months.

F. L. PLATT, Specialty Breeder and Judge, SWANTON, O.



Fashion Plate Buffs

The established Strain that all breeders seek to improve their flock or buy into when they desire to win. Orpingtons the amateur recognizes without resorting to shanks and beaks to classify.

30 Yards

30 Yards

Mated to supply the demand for eggs—all raised from trap-nested families that produce our first prize winners at the best shows. Send for our 60-page Fashion Plate Book, describing our matings, sale stock, care of poultry, etc., FREE.

A. E. MARTZ

Buff Orpington Specialist
and Judge

Box A, Arcadia, Indiana

it worked very well for a time. Their state of mind was probably not unlike that of the reader who has been wading thru so many columns of humbug reform, only to find himself back at the starting point.

The reading matter in some of these humbug reform poultry publications during the past several months has been anything but helpful to readers or to legitimate poultry business interests. Thru a desire to get at the real meaning of the work of the "grouch committee," we have waded thru an immense amount of "ink and paper talk," but so far it is apparent that the quasi-official organ of the said committee, in spreading out its findings, has not demonstrated any ability to unearth what they promised. It would be a joke if the results were not so far reaching and harmful; as it is, the whole thing appears as ridiculous buncombe. We had thought that possibly they might have roped a "crook" or two ere this and had such "hog-tied" in the American Poultry Association corral, for the "holier than thou" officials to use as targets in their practice work. But after many months of effort we do not find that they have one single "pirate," "parasite," "crook," or "vampire" convicted of any acts except those of which the members of the committee appear equally guilty. It does seem to be a waste of time to read so many pages of dribble, but we should be sorry, in case the "grouch committee" ever did investigate anything that should be investigated by them, or make captive a real live "parasite," should we fail to learn about it.

Some time ago a writer of note made the statement that "grouches" were of two kinds; the first, a species of human who does nothing and is never satisfied with what others do; the second, a species of devil who devotes his time to futile busying in an effort to combat constructive work by accusing others of his personal accumulation of crimes. Of these, to use the author's words, "the latter is by far the more dangerous, since his work is less than useless and is carried on chiefly to cloak his own unworthiness."

After careful reading of the latest report of the "grouches" we are reminded, however, that even behind the blackest

cloud the sun is still shining and in one or two instances, in said reports, we think we can catch a glint of sunshine. Regarding the investigations being promoted, mention is made of the probability of calling to the committee's aid the United States authorities, where, as we have said before, such work of investigation rightfully belongs. It is our belief, however, if the government authorities take up this work it will not be conducted under the guidance of the "grouch committee." We are glad to note also a considerable clearing in the "investigation" sky, in that criticised and condemned hatcheries and poultry dealers are now referred to as ———— and ————, instead of boldly giving names and addresses as heretofore. We have been informed that the latter change is due to legal action started by those who have been investigated and defamed in public print.

From correspondence between the leader of the "grouch committee" and poultrymen in different parts of the country, which has been submitted to us, there is ample evidence of an amazing amount of "artificial discrimination" in the work of the clean-up or "grouch committee." We have before us letters asking the leading "investigator" to investigate certain claims of advertisers in his publications, and his replies to same which state that this "self-sanctified leader" is "too busy" with other matters to investigate said advertisers. Here are claims of big advertisers questioned and in his replies the reform edi-

tor admits that many have questioned these claims, yet when subscribers ask—even demand—investigation of such claims, the promoter and chief advocate of the association's "purify the other fellow reform" is too busy with other things to take up matters calling for investigation. Would he be too busy if party to be investigated was not an advertiser? Is it necessary to buy immunity? As the recital of the Harrison-Penick proceedings have been worn threadbare, we suggest to this "too busy" man that, where time is so much needed, the irrelevant matters dragged into this recital about "volunteer reports" and the recital itself might now be dropped,—certainly it would afford great relief to a much abused reading public.

According to this "self-sanctified leader" the American Poultry Association is represented as ninety per cent. pure where it agrees and works with him as political dictator, but alleged to be ten per cent. crooked where it disagrees with him and his humbug reform methods. If it should happen that a U. S. Government investigation committee ever starts to go to the bottom of these American Poultry Association matters—and if Uncle Sam does start he will probably be thoro—we believe that the poultry fraternity will then learn beyond a doubt

Smith's White Leghorns

Are the Most Consistent Winners in America. Catalog telling all about them sent upon request. Eugene C. Smith, 317 Galena Blvd., Aurora, Ill.

Barred Plymouth Rocks

Lady Beautiful Strain

Wonderful records have been established by my birds at **Madison Square Garden, Philadelphia, and Hagerstown.** This record includes many firsts and other prizes.

Eggs for Hatching from These Winners

at reasonable prices. Now is the time to buy. Satisfaction guaranteed.

C. N. MYERS

Box E

Hanover, Pa.

Big Reduction

EGGS from our Special Matings, two settings for \$10.00, Beginning May 15. Chance to get eggs from the \$15.00 pens.

Rhode Island REDS

Carver's Queen Quality Strain wins at

Chicago Coliseum this Season

1st S. C. R. I. Red Young Pen, 2nd S. C. R. I. Red Old Pen; also won Championship Cup for best Reds in Ohio, 1912; also the two silver tea sets for best display and best cockerel, Cleveland, 1912. Winner of 100 ribbons, and customers won in 30 states in 1914, 50 ribbons, including 27 first prizes at America's largest shows, 1915.

Caesar The Great also won first at N. Y. State Fair, defeating over 50 cocks this season. All above winners grown from our own matings. Our last season's egg customers also report heavy winnings.

We pride ourselves on our many re-orders from old customers.



Undeclared Champion, CAESAR THE GREAT
Defeated 50 Cocks this Season

SUSSEX SPECKLED AND RED SUSSEX

Importers from England's Best Sussex Breeder and we now have on our farms, direct from England, the Great International Champion, KING, First at Crystal Palace, London.

Our Winnings: At National Sussex Meet, Chicago Coliseum, in tremendous competition—First Young Pen Red Sussex, and 15 Firsts in Sussex alone at the three big fall shows. Great Forest City Fair, Red Sussex, four firsts; Great Allentown Fair, Red and Speckled Sussex, four firsts; Ohio State Fair, Red and Speckled Sussex, seven firsts.

Write Us Before Buying Eggs or Stock

Our Sussex customers won at Madison Square Garden, Buffalo, and other shows too numerous to mention. Will it not pay you to buy of one whose customers win as well as himself?

A. A. CARVER, Specialty Breeder
Lock Box 100, SEVILLE, OHIO

the real reasons for all this clamor for investigations and the motives which inspired these self-appointed investigators. There has been much publicity howling about "pirates," "parasites," "crooks" and "vampires," but we are willing to trust it to a Congressional committee to smoke out the arch-pirate or pirates, if such there be.

Theodore Hewes in February *Everybody's Poultry Magazine* spoke well and truly when, in referring to these investigation matters, he said,—"You know there is an old story and a very true one about trying to throw dust in the other fellow's eyes so he won't see us."

H. H. STODDARD GOES ON RECORD.

By HELEN T. WOODS.

THE genial philosopher, Dr. Oliver Wendell Holmes, once remarked that "the great thing in the world is not so much where we stand, as in what direction we are going." Just as a man's deeds tally for or against honest dealing, so are scored the works of an association of men.

As two bodies cannot occupy the same space at the same time, neither can an association progress outwardly when it is deteriorating at the core. There has been sufficient evidence now made public in the proceedings and published statements in various poultry periodicals of the meeting of the American Poultry Association at San Francisco, to place the stigma of retrogradation upon the acts and present policy of the association.

While, greatly regretting the questionable enactments of the association at its last convention, the general run of poultry men and women are thereby enabled

to very materially increase their faith in human nature, thru the widespread condemnation of such measures as has lately been voiced by reputable poultry breeders and men of high standing in the poultry world.

The editors of the *AMERICAN POULTRY JOURNAL* have received volumes of cor-

ing combine of the association in the hands of a few, while more or less powerful, is tremendously outweighed by the really honorable, progressive and constructive element of the association.

In a private letter relating to other poultry matters, recently received from H. H. Stoddard, one of the best known



The above view shows a pen of Columbian Wyandottes bred on Wilburtha Poultry Farms, Trenton Junction, New Jersey. This pen won 1st prize at Madison Square Garden, 1915-1916.

respondence condemning the actions of the American Poultry Association at its San Francisco meeting. These expressions of disapproval of recent developments in the American Poultry Association plainly show that the retrograd-

and most widely respected pioneers in poultry culture, and a charter member of the American Poultry Association, he says: "I would like to go on record as voicing a most earnest disapproval of the degeneracy of the old child of my heart—the once honorable and dignified American Poultry Association."

"In regard to the huckstering discussion now prominent in the poultry press, there is a lot of prating and 'holier-than-thou' talk that makes me tired. In the *Reliable Poultry Journal*, March, 1916, page 75, col. 3, I find:

It remains for the American Poultry Association to investigate these mammoth hatcheries—and it is to be done. This investigation should be made in the near future, for three main reasons: first, to protect the standard-bred poultry business as an industry; second,



McDannell's White Leghorns

200-Egg Strain Win-Lay-Pay

Before placing your order for Hatching Eggs or Day-Old Chicks, write me. I know I can please you. Wonderful Type and Color. Free range, meaning sturdy, vigorous birds. Order early. Circular free. Satisfaction guaranteed.

M. O. McDANNELL, 1430 24th Ave. A, MOLINE, ILL.



Regal Fertility

At this season of the year fertility is a most important question. The finest pen in the world would be of no value if you could not get fertile eggs. Regal White Wyandottes have always been bred for vigor and today I am getting results. Letters like the following are very pleasing:

Colorado Springs, Colo., March 18, 1916.

Mr. John S. Martin, Port Dover, Ont.

Dear Sir—The one hundred Dorcas White Wyandotte eggs purchased of you on March 1st, 1916, proved to be 85% fertile and am greatly pleased with such fine results from eggs shipped so early. I remain,

Yours truly,

C. W. BROWN.

Later Mr. Brown reports a satisfactory hatch and says "they are the finest chicks I ever saw; they are surely doing fine, and at four days old they look and act like chicks two weeks old."

Are you having satisfactory results? If not, why not try the Regal Strain? May is the best month of the year to hatch prize winners, and I positively guarantee satisfaction.

Eggs for hatching from twenty beautiful exhibition matings, \$5 per 15, \$9 per 30, \$12 per 45, \$24 per 100.

Dorcas matings composed of trap-nested heavy layers, \$5 per 15, \$15 per 50, \$27 per 100.

Utility matings, \$9 per 100.

FREE — Send for twenty-page catalog and mating list.

Send one dime for the Regal White Wyandotte Book, telling all about White Wyandottes.

JOHN S. MARTIN, Box 51, Port Dover, Canada

to prevent deception and loss on the part of many persons who are now buying day-old chicks from certain hatcheries that possess little value as standard-bred stock; third, in justice to such day-old chick hatcheries as are telling the truth about the quality of the chicks they are selling, regardless of the prices they are asking for them.

"Why! Sakes Alive! No private individual or set of individuals or association—not even the great American Poultry Association itself, can legally go poking around a man's private business, and afterwards print and circulate a report that the proprietor charges more than the goods are worth. Such a preposterous investigation never was heard of before!

"Who is to investigate the investigators? Why are they supposed to be any more honest than the hatchery men or hucksters? They are surely subject to more temptation than the 'hatchery-huckster' proprietors are. They have a surpassingly fine opportunity for levying blackmail on the proprietors.

"To begin with, no private person, editor of poultry paper, reporter, nor



Second R. C. Red pullet at Illinois State Fair, 1914. Owned by Quincy Poultry Farm, Quincy, Ill.

association, is empowered to send for persons and papers, to swear witnesses and cross examine them, under pains and penalties of perjury. And who does not realize that our courts, tho trying to do the very best frail humans can do, often find it hard to administer justice, tho equipped with all the aids mentioned?

"I am interested in no hatchery or anything else that American Poultry Association is likely to investigate, nor is any friend or acquaintance of mine. But when the once decent and respected American Poultry Association degenerates so far as to become a laughing stock, I hope my fellow charter members and all who attended its meetings in the early years, *before it had softening of the brain*, will protest against its attempt to usurp the functions of a court of law. If any one is wronged or cheated, what on earth are our courts of law for if not for this purpose?"

It is plain to be seen that Mr. Stoddard, along with all true friends of the best interests of poultry culture, concurs in the opinion that the American Poultry Association in its late activity against honest poultry interests, is headed in the wrong direction.

The unfortunate use of the association to further political ambition and

private interest of a very small percentage of its membership appears to be at the root of the association's evils. There are plenty of clean-minded, honorable and worthy members of the association to call a halt to the unbecoming antics of the political tricksters, now endeavoring to throw dust in the eyes of the whole poultry world for the purpose of screening their own misdeeds. It is to be hoped that the worthy element in the association, who are greatly in the majority, will adopt active and vigorous measures to put a stop to further suicidal nonsense of attempting to purify everybody except the "lily white" Purification Committee.

Our Cover.

WE TAKE great pleasure in showing on our cover page this month an actual photograph of a White Wyandotte cockerel belonging to John S. Martin, Port Dover, Ont., Canada. This bird was a first prize winner at the Great Hagerstown show, 1915, and is certainly a most handsome specimen of the breed. We call our readers' attention to the fine quality of the photograph, it was made by our Mr. Stahmer at the Hagerstown Fair and shows that retouching and altering is unnecessary when the specimen is first-class.

DR. WOODS' NOTES AND COMMENT.

MAY.

Spring's last-born darling, clear-eyed, sweet,
Pauses a moment, with white twinkling feet,
And golden locks in breezy play,
Half teasing and half tender, to repeat
Her song of "May."

—Susan Coolidge.

* * *

May chickens are good chickens and make rapid growth.

* * *

Mediterranean varieties hatched this month are, by many, believed to be the best and most profitable of their kind.

* * *

Nests for sitters this month should be prepared in sheltered places out of doors. We like a bank or group of ten nests, with waterproofed roof and wire front door, placed on the ground in an evergreen grove or other shelter. The bottoms of nests to be made of one one inch mesh wire netting to keep out rodents. Nests first shaped with earth or loam and then made of tobacco stems and pine needles or a little soft hay. In such nests out of doors we get our best hatches in May. Sitters should have a long narrow runway and be fed at the end of it to promote needed exercise.

* * *

Just as soon as warm, settled weather comes, see that provision is made to

You Want EGGS

—not only eggs that hatch but eggs that will produce the champion winners; that will conquer your rival—just as the

HALBACH STRAIN

OF

White Plym. Rocks

"The Proven Leaders"

has conquered the idle boasts of other advertisers. Their record at Chicago of every **First** but one, **Every** second but one, and **Every** third but one—against the world—stands unequalled. You want the **very best**. It will not pay you to go elsewhere, but **start right** at headquarters.

They produce eggs in such paying quantities that they are in great demand wherever lots of large brown eggs, laid by hens of the best vigor and vitality, are desired.



Madam Snow-drop
First Chicago Pullet



King Champion 2d
First Chicago Pen Cockerel

My Free Mating List Tells About the Grand Bargains

—the finest ever listed. Don't regret later, but write today.

Eggs from \$3 to \$12 per 15.

Baby Chicks at reasonable prices.

Get the List NOW

H. W. HALBACH

R. R. No. 1, Dept. D, - WATERFORD, WIS.

keep the poultry houses cool and comfortable. This is necessary even with open-front houses. With houses of the semi-monitor type, open the monitor windows. We generally open ours during May and leave them open until fall. With the Tolman house it is a good plan to provide a wire net door and leave the regular door wide open to keep house cool and comfortable.

* * *

As the sun begins to warm things up do not fail to provide shade. Also provide shelter for the birds to run to in sudden storms. A few evergreen branches on top of brooders and brood coops will make things more comfortable for the chicks and for the brood hens.

* * *

Keep your flocks comfortable, it is humane and it pays. See that they are always supplied with cool water and keep it in a shady spot that is easily accessible. Supply clean water and renew supply often, if you cannot provide running water or a drip system.

* * *

Sun and air out the brooders regularly every day at feeding time. Turn the hovers bottom up to the sun for a little

while every bright day. Clean brooders and coops every week. Change to new ground or increase size of run before soil becomes foul. If you must use small bare runs, sweep them clean before every rain storm and spade them up frequently.

* * *

Look out for lice and mites. Dust brood hens every few weeks with dusting sulphur. Use a little oil about vent, under the wings and on heads of brood hens and a small drop of oil or grease on head of each small chick. Sweet oil or melted lard is good, it helps to keep them free from lice. For mites clean up the poultry houses and coops thoroly and sweeten with a good white wash or disinfecting cold water paint. A good lice killer should be applied to roosts, particularly ends and the supports, to keep down the mites. Apply same in morning so that it will dry in before fowls go to roost at night. About one pound of naphthalene flakes (crude) dissolved in a gallon of kerosene, makes a good mite killer for use on roosts and drop boards.

* * *

Burn all old nesting material. Renew the bedding of nests often. Do not use strong smelling material for making nests for layers and do not use medi-

cated nest eggs in layers' nests. Remember that eggs are easily tainted and the quality of table eggs is ruined by anything that gives a strong flavor to them.

* * *

In starting small chicks out of doors, give them a small run at first and increase the size gradually. It is usually better to confine the hen and let the chicks run.

* * *

When you are thru hatching for the season, select the best hens that you desire to carry over for another season and rest them in a well sheltered grove or orchard, or in a good open-front shed and shady, roomy yard. Feed a good allowance of hard grains, mostly oats, and see that they have plenty of fresh greens. If they can be penned in a pine grove and permitted to live entirely out of doors and roost in sheltered trees during the summer, they will moult well and go into winter quarters in unusually fine trim, ready to do profitable work for you during the next breeding season. Keep the males away from them. Your best males can be given a few mates, that you do not care to hold over longer than fall, and give them similar quarters and care until fall housing time. A little



Aldrich White Orpingtons REDUCED PRICES

HAVING finished hatching earlier than usual this season, we will reduce the prices on eggs from our different matings to one-half the regular price after May 5th, thus making eggs from our pens headed by our Chicago and Madison Square winners cost \$5.00 and \$7.50 per setting and from our \$5.00 matings, \$3.00 per setting or \$15.00 per 100. We also offer our remaining male birds at a discount of one-third from our catalog prices.

If you wish White Orpingtons from America's most popular strain, thus enabling you to **advertise Aldrich Strain White Orpingtons** and obtain good prices for your stock and eggs, you cannot afford to pass by this chance to obtain eggs or stock at these low prices

Order direct from this ad if you want prompt shipment as all orders are booked in rotation, and we will forward our mating list, from which you can make selection.

ALDRICH POULTRY FARM, 5075 N. High St., Columbus, O.

LATHAM'S BEAUTY AND UTILITY STRAIN Barred Rocks WIN

Their record to date over **320 prizes**, including **42 first prizes**. All these winning birds were bred, raised and exhibited by the originator and owner of this strain. Heading my matings for 1916 are 13 of the finest pullet-bred males I ever had in my yards, including **five first and second prize birds** at the **Palace and Boston shows of this year**. All these males are either winners or bred from winners. Females in the matings are the **cream of 30 years study and successful breeding of this line of Barred Plymouth Rocks**. This strain is the richest blood line of high winning females at America's greatest show that are living today.

Eggs for Hatching, \$10 per Sitting

Better value in eggs for hatching cannot be bought anywhere at any price. Every egg I sell for hatching I guarantee shall come from the females that are in these matings, being the same matings I shall breed for myself.

The **BEAUTY AND UTILITY STRAIN** is bred exclusively for production of *Exhibition Females*.

C. H. LATHAM

Box 145

LANCASTER, MASS.



2nd Prize Pullet Bred Cockerel, Palace Show, 1915

special attention given to choice breeding stock will be well repaid in good results later on. Summer layers can be kept in similar outdoor quarters or a well aired, cool house, and pushed for egg yield with very satisfactory results, but the wise breeder will not use worn out, forced layers for breeding stock.

* * *

Cleveland will probably get the annual meeting of the American Poultry Association and the meeting will have to begin on August 8th,—the new constitution is mandatory on this matter. Section 11 of Article III reads: "The annual meeting shall begin the second Tuesday in August of each year, the place of holding it to be determined by a mail ballot of the association at the same time and in same manner as the mail election of officers. It shall not be held at any other time, or in connection with any poultry exhibit or display, unless for extraordinary reasons the Executive Board recommends at an annual meeting that exceptions to one or both these specifications be made for the next annual meeting; in which case the time, as well as the place, shall be determined by vote of the whole association in the annual mail ballot."

For Cleveland it is an unfortunate fact that no recommendation of the Executive Board as to change of time of annual meeting was made at San Francisco—Everybody was too busy with other troubles. The time as well as the place was voted on the nomination ballot, but the error was discovered in time to have regular ballots go out in accord with constitutional provisions, allowing the vote for place of meeting only. The constitution provides that the meeting shall begin on the second Tuesday of August, which is August 8. Cleveland members are going to be more or less disappointed, as the week of August 14 to 19 was the one selected by the local association as the most desirable and convenient, and several poultry papers have been boosting for that week; but the new constitution apparently does not permit any other date than the second Tuesday, since the Executive Board failed to make any special recommendations for a change.

* * *

Constitutions Wanted. The following

item is from the editorial columns of *The Poultry Record*; no comment is necessary:

"In accordance with the expressed wishes of the members of the Cleveland Poultry Association we have joined with them and with others in urging members of the American Poultry Association to vote for the third week of August as the time for holding the next meeting of the American Poultry Association. Now comes a letter from Secretary Campbell calling our attention to the fact that the American Poultry Association constitution sets the time as the second week in August. It looks as tho' the American Poultry Association might well circulate a few copies of its constitution or publish it in the Bulletin, so that members might know what is in it. It would appear that even the election commissioner does not know it, or he would not have it on the ballots. What's the use of voting on it, if the constitution sets the time?"

* * *

Egg eating is one of the most exasperating habits that fowls contract. We had some new arrivals this spring that had learned egg eating by being starved by express messengers while on the road, and they had to learn to eat eggs or starve to death. The first week we had

S. C. BUFF LEGHORNS—Eggs for Hatching
From Chicago and Rochester Winners at reasonable prices. Stock for sale. Satisfaction guaranteed.
C. H. LEITNER R. F. D. No. 4, Box 8 ELGIN, ILL.



"Papa's chickens win more prizes and lay more eggs every year. Why don't you try them."

Your Opportunity May the First

Our prices are reduced, not only on eggs for hatching but breeding and utility stock as well as exhibition birds.

Having hatched out a lot of early chicks, over 500 in January, 1,000 in February, as well as a large number in March and April, gives us all that the plant can properly handle and this is the opportunity for you

To Profit by Our Success

Our Mating and Special Sale List now ready to mail. Send for a copy today giving Summer Bargain Prices on exhibition, breeding and utility birds, eggs for hatching and baby and six-week-old chicks of

The World's Best White Wyandottes

This is an offer never before equaled. Summer Sale Bargain Prices right here in breeding season. Get your order in early, hatch May chicks from these eggs, or from these special bargain lots.

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HOPE, IND.

Write for Our Free Catalog

of these coops and nests and many other articles.

You will save money and get the very best. We make exhibition coops, trap nests, setting coops, brood coops, colony coops, portable henneries, portable fences, fireless brooders, fattening crates, runways, etc. Mention American Poultry Journal. Address,

Niemann Bros. Manufacturing Co.

Box 677

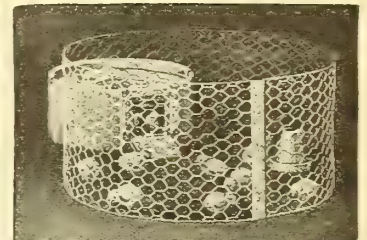
Mt. Olive, Illinois



Model Setting Coop



Economy Trap Nest



Model Fireless Hover with Yard
Price \$1.25, half doz. \$6.90

All three for 25 cents

To introduce our goods we will send these three labor-saving sanitary "Star" pans to any address in the United States for 25c, postpaid. They are made of heavy, rust-proof material and will fit any Mason jar. Order today. Send for catalog describing our Feather Brooders, Automatic Feeders and other poultry appliances.

SIMPLEX SUPPLY HOUSE

Pontiac Bldg.

CHICAGO, ILL.



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Keeler's Wh. Wyandottes

The persistent winners at America's best shows for the past 21 years. Latest victory **Chicago, 1916**, in class of 194 birds: 5 firsts, 3 seconds, 2 thirds, 3 fourths, 2 fifths, 7 specials.

Eggs Half Price

Eggs are remarkably fertile this season and on April 15th I have something like 2000 chicks of my **World's Greatest Strain**. So on and after **May 10th** eggs will be sold at **half price**. From \$15.00 pens now, \$7.50 per 15, \$14.00 per 30; from \$10.00 pens now, \$5.00 per 15, \$9.00 per 30, \$14.00 per 50, \$25.00 per 100; from \$5.00 matings now, \$3.00 per 15, \$5.50 per 30, \$10.00 per 60, \$15.00 per 100. Order direct from this ad and save yourself time! Look up my former ads in this paper. My catalogue is free and describes the matings these eggs come from. Send for your copy **today**.

CHAS. V. KEELER, R. F. D. 11, WINAMAC, IND.

First Cock, Chicago, 1916

MORRIS White Orpingtons

Winnings at Madison Square Garden New York, 1916:

1st Cock	1st and 4th Hen
2nd Cockerel	1st and 4th Pullet

Our 1st Pullet won cup offered for **Best Orpington Hatched in 1915**. If you want

Quality White Orpingtons

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The greatest Laying Strain of Single Comb Rhode Island Reds in the Northwest. Mating lists of 8 pens ready now. Send postal card with address to

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COCKERELS that will **WIN** and **BREED** winners. Sired by our Illinois State Show, Peoria and Cedar Rapids Blue Ribbon Winners. **Fifty extra choice** birds for sale. Also choice Cocks. Prices right. From heavy layers.

BABY CHICKS! :: We ship only strong chicks and fertile eggs that hatch. :: **EGGS, EGGS!**

STERLING POULTRY FARM Box A STERLING, ILLINOIS

Buttercup Eggs from Winners

of the Blue at **MADISON SQUARE GARDEN, 1916**. Also a few others not actual winner. Write for prices. No day-old chicks. No stock at present.

D. J. WHITE, 1222 Patton St., Wilkinsburg, Pa.

Atsatt's Chick Feeders and Fountains



The practical **CHICK Feeder**. Easy to clean and fill. Made of galvanized iron, size 10x4 inches. One trial will convince you. Price, 25c each, or mailed for 32c, 3 postpaid, 90c.

Our Chick Fountain does not wet or drown the chicks. Size, 1 quart fits any brooder. Four places to drink. Galvanized iron. Price, 25c each. One mailed for 32c; 3 postpaid, for 90c.



Ask your dealer or send for our new c. talog. **ATSATT BROS., 27 Pearl St., Mattapoisett, Mass.**

BABY CHICKS

from **Morse's White Leghorns** assure good luck. They live and lay. Selected hatching eggs. 187 eggs per hen last season in flocks of 1000 each. Our birds won wherever shown. Free illustrated catalog describing plant and stock; giving egg and show records, and information for beginners.

RUFUS MORSE : : BELDING, MICHIGAN

them, we could not beat them to the eggs. They would not lay in the nest, but would drop eggs on the floor, or from the roosts, and then scramble to consume the delicacy. We tried practically all the stunts we knew and without results until we adopted heroic measures. We took a flat file and filed each bird's beak down to the quick at the point, just close enough to make it tender but not to draw blood. Then we put some china nest eggs on the floor and a nice trap nest just above floor level. The nest was left invitingly open at first and a nest egg in it. The egg eating stopped at once and only one egg, that was accidentally broken, was eaten after the filing. They learned to use the trap nests in a few days and now they do not even remember that they ever were egg eaters. Tried them by putting an egg on the floor and they did not even look at it.

* * *

We do not usually run our flocks thru the winter without litter to scratch in. A well littered floor promotes healthful exercise and helps to keep the birds' feet clean, which is a factor in getting clean eggs. The past two winters we have not had litter material to spare and good clean straw has been so high in price that we decided to get along without it. With large flocks the high-cost of litter increases the production cost of eggs very considerably. So, the last two winters we have used an abundance of dry sand on the floors of our poultry houses and done without litter, except with a few small flocks. The birds took plenty of exercise in scratching in the sand and it kept most of them with quite short toe nails. The birds themselves did not look quite as trim and clean in plumage as when we have used deep litter, but otherwise they were in fine condition and very productive. To insure clean eggs the floors were well raked often and the birds were not allowed to run in the wet until after the bulk of the day's laying had been done. The plan works very well and it saves money; but when litter is cheap we prefer it.

* * *

A few of our readers have been having a little trouble in using the "Zenith" or "chimneyless" burners for home-made brooders. The trouble is caused mostly by insufficient ventilation of the lamp chamber and getting the lamp flame too close to the metal top chamber. The flame when running full should be not less than four inches from the galvanized iron top of lamp chamber, which serves as the hot air heater. If the lamp chamber has not been made sufficiently high, a hole in the earth under the brooder can be made to receive the lamp and so lower it. This will also help to keep the

Columbian Wyandottes

Winners of five first and two second prizes on seven entries the past two seasons, including **first pen at Boston show, January, 1916**. Eggs from two best pens, \$5.00; four other high-class pens at \$3.00 per setting, Stock for sale. Satisfaction guaranteed.

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S. C. WHITE LEGHORNS ONLY. The World's Official Record Laying Strains of America, England, Australia and New Zealand. Egg and Chick Circular, 25 Lay. Cont. Reports and the most practical catalog written. "Utility Facts" Free. **J. R. PARKS, Box P ALTOONA, PA.**

Increase your egg production 100%. Read advertisement on page 793.

CINNAKOL

Tested and found efficient
by the New Jersey Agricultural
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Filth and Parasites Mean Failure

Chickens and Chicken Houses
sprayed with a 2 percent solution of
Cinnakol will be in a sanitary con-
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Cleanliness is a long step toward
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Ask your dealer.

25c per pint 50 per quart
\$1.50 per gal. \$6.25 for 5 gals.

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CINNAKOL CHEMICAL SALES CO.
167 West 52nd St. Bayonne, N. J.

Splendid Opportunity

To secure an established and desira-
ble poultry and fruit farm. Profits
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improvements. Close to large city.
\$10,000 cash required to obtain pos-
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Before buying R. I. Red eggs for hatching,
write for our mating list.

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ATHERTON'S
FAMOUS **SILKIES**

The REAL Birds
EGGS \$6.00 per setting; two
settings, \$10.00.

Single Birds, \$5.00 to \$25.00

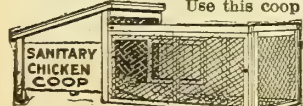
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Aluminum, numbered to suit, with large raised
figures. Postpaid 100-50c, 50-30c, 25-20c, 12-15c. Initials
extra 10c per letter per 100; 50 or less 5c. More than
one initial with cut figures. Circular free giving
price on Small Chick, Superior, Riveted and
Pigeon Bands. Sample for stamp.

T. CADWALLADER Box 1602 Salem, Ohio

\$3.00 Buys This COOP and RUN
Practical, durable, easy to clean. Run detachable.



Circular
free.

SANITARY COOP CO., Winter Ave., INDIANAPOLIS, IND.

lamp cool. Here, as elsewhere, experi-
ence helps in getting satisfactory results.

* * *

Writing on "The Rebirth of Barbar-
ism" in the *Boston Globe*, "Uncle Dud-
ley" says:

"War is now a proposition in scientific,
mechanical butchery, and the Nation which can
butcher most scientifically, most mechanically,
and on the largest scale, is the Nation likely,
according to militarist logic, to become the
mightiest toad in the puddle.

"That it is a loathsome toad and a bloody
puddle is merely the logic of war. History
shows that war has been growing steadily less
gentlemanly as it grew scientific, and once we
pin our faith to organized violence, the better
organized it is, on the showing of the military
case itself, and the more violent, the safer we
are.

"To expect militarism to 'crush' militarism
is, like the race of armaments which preceded
this war, a race for a precipice: over goes the
winner.

"Old-fashioned war was a courtly prize fight.
Modern war is a rough-and-tumble street fight,
with every premium on hitting below the belt.
Once that starts, there is no place to stop."

Read that again and think it over, then
ask yourself what you really think about
militarism, preparedness, and possible
conscription. Do you want to raise boys
to be merely "cannon fodder" and girls
to be merely "brood mares" to breed
"food for the vultures?" Is it a good
thing to slaughter the majority of man-
kind that the few may wax fatter and
richer and become more powerful until,
instead of a Nation of the people and
for the people, we have only masters and
slaves? It is a subject that will bear
considerable thought.

* * *

We have to live in the world as we
find it,—true enough. But at least we
can learn to think for ourselves, and it
certainly looks as if most people had let
someone else do their thinking for them
quite long enough. Brains were not
made to be merely phonographic records,
to be prepared by dictation and then to
parrot the thoughts of interested mono-
poly. It is about time to wake up, to
think, and to act before the whole of
civilization goes over the brink of that
precipice "Uncle Dudley" talks about. It
is an interesting and stirring time to be
alive, and it certainly would appear to
be a good time to consider what is the
real meaning and value of Christian
teaching. Should we have a world for
all mankind with progress and prosperity
for all? Or, should we kill progress,
murder the brotherhood of man, and re-
turn to barbarism? Isn't it just possi-
ble that this is "worthy of thought?"

* * *

It would be interesting to come back
to this world a hundred years from now,
with full possession of such small knowl-
edge as we now have, and review history
as it will be written. The world is
a pretty nice place, a good place to live,
and life is well worth living; but we can-
not see what great good can be devel-
oped by dying for one's country, when
to live for it and work for it would ap-
parently bring much better and happier
results for everybody. Viewing each
day's events as they occur and reading
the contradictory views of our greatest
minds, one cannot help wondering
whether we are going forward or back-
ward.

* * *

After the long, old fashioned winter,
the heavy snowfall, the ice and slush, it
seems good once more to feel the spring
of the quickening turf underfoot and to
once more stir the soil and make it ready
for planting. A hard old winter, yes,
but it is gone and the heavy clothing is

**Shipment Same Day
Order is
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Write
Your Own
Guarantee



**CANDEE
COLONY
BROODER**

CAST IRON
COAL BURNING-SELF REGULATING
Broods up to 500 in one Flock

**Mrs. Thompson Raised Every Chick
Cost 3 Cents for COAL to Run 24 Hours**

"I started my Candee Colony Brooder with
227 chicks, raised every one of them to 6 weeks.
We have had nothing to equal the Candee, and
we have tried all kinds and lost many chickens
in the trying. We burn just common egg coal
mined here in Issaquah, and we burn just 3 cents
worth of coal every 24 hours.

MRS. JAS. R. THOMPSON,
April 22, 1915. Issaquah, Wash.

WIRE ORDER AT OUR EXPENSE

A letter or postal will bring to you handsome
Candee Colony Brooder catalog by return mail.
Our special delivery service insures your getting
your Brooder when you want and need it.
Write or wire now.

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WHITE LEGHORNS 258 and 282 OFFICIAL RECORDS	READ'S Pedigreed Leghorns, Reds and Wyandottes Hatching Eggs Cocks and Cockerels Hens and Pullets Trios and Pens Be sure to write us before placing orders, stating your wants fully. Prices reason- able. WRITE TODAY THE READ POULTRY FARM Watervliet, N.Y.	WHITE LEGHORNS 248 and 288 CYPHERS' RECORDS WH. WY- ANDOTTES 274 and 282 OFFICIAL RECORDS
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S. C. Rhode Island Reds
White Plymouth Rocks
White Wyandottes and
S. C. White Leghorns**

Are fully described in

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Wonderful Winnings,
Business Methods,
Absolutely Fair Guarantees,
Prices on Stock and Eggs,
Unequaled Matings,
Unexcelled Utility Qualities,
Location.**

A careful reading of this book will make you an Owen Farms customer. The results you will obtain from stock or eggs will make you my permanent customer.

Eggs Will be Half Price After May 10th

Making Eggs from My Best Matings as they are on hand,
\$5.00 for 15; \$9.50 for 30; \$15.00 for 50; \$25.00 for 100.

From My Grand Second Quality Matings, \$2.50 for 15;
\$7.50 for 50; \$12.50 for 100.

Send your order at once and secure earlier delivery than if you wait. You will receive my Catalog and Mating List, exceptional quality for your money and remain my permanent, satisfied customer.

393 OWEN FARMS BIRDS have won FIRST PRIZES at MADISON SQUARE GARDEN, NEW YORK, as far as competition from other breeders is concerned. NO SIMILAR RECORD HAS BEEN MADE BY THE BIRDS OF ANY OTHER BREEDER IN ALL THE WORD.

OWEN FARMS

107 William Street,
VINEYARD HAVEN, MASS.

MAURICE F. DELANO, Prop. FRANK H. DAVEY, Supt.



Automatic Ventilator

For Brooder and Colony Houses

The "Ideal" Ventilator, automatic in operation, requires no attention. Opens and closes whenever the temperature needs adjusting; noon or midnight. Keeps fires going without over-heating and avoids chilling from open windows. Overcomes all brooder troubles. Fresh air makes more healthy chicks. Prevents crowding.

Adapted for every type of poultry house or any brooding system. **Price \$4.50**, delivered anywhere in the United States. Satisfaction guaranteed or money refunded.

Write for particulars.

LIBERTY STOVE COMPANY 102 S. Third St. PHILADELPHIA, PA.

no longer needed, the sky is bright; the sun warm, the breezes have the mellow fragrance of opening buds and blossoms, the birds are nesting and singing in the trees, there are bird houses to be put up, flower beds and garden to make, the chickens to be cared for and the other multitude of warm season work crowding so fast that there is no time to consider much but the glorious present and the hope of the future. It ought to be a good season; has got to be if we can make it so.

* * *

Those who do not sleep out of doors don't know what a blessing and satisfaction there is in a bed room on an open sleeping porch. The frogs did not begin their first concert in Old Forge Pond this year until April 5, but that evening they began making up for lost time and sung us a lullaby that certainly sounded good. Now and then the splash of a big fish and always the roar and steady rush of the spring full freshet running over the spillway of the dam, now and then the rumble and pounding of a bit of drift wood as it leaps in the fall of water, and then the Honk! Honk! of a big flock of wild geese flying north. Going to sleep is a mighty interesting and satisfactory proceeding under such conditions. Then at dawn the clarion of the cocks in the poultry houses wakes us up in time to hear the wild birds welcoming the morning, the water still is keeping up a noisy clamor below the dam. Old Sol in the eastward is looking straight into our face and says it is time to be up and doing. Springtime at full flood is surely a season of promise and out door sleeping helps one to enjoy it to the full.

* * *

Just to show how the gift of a sample of good quality goods will bring results: Last fall we gave a visitor half a bushel of newly dug potatoes and some new laid eggs. It created a steady egg customer and now we are selling them eggs by the case to put down in water glass and their neighbors have been invited into the deal. Not only that, but they are begging us to grow, just for them, "ten bushels of that same kind of potatoes." If we had the time to devote to it, it would take very little work to develop a good private market for everything that we could produce on the farm. We sold most of our last year's potato crop because prices were tempting, but we still have enough for home use for some time, altho not quite as many as we would like for seed. When we think of doing our editorial work here on the farm as we do now, and how a good many others are doing that sort of work in a stuffy, noisy office in a brick block in the city, we do not wonder that such editors get full of natural cussedness and grouch. To really enjoy writing about chickens and agricultural matters one should be out on the farm where things grow and where Nature is at her best.

* * *

In spite of the fact that the American Poultry Association Executive Board three times rendered the same verdict, that so-called "voluntary report," like Banquo's ghost, declines to be downed. It looks as if Macbeth had indeed murdered sleep. The following is quoted from a letter written March 18, 1916, by J. D. Veach, of Hubbard, Montana, to R. G. Bailey, of Lewistown, Idaho:

"I have letters from prominent Canadian members which lead me to believe that they will withdraw from the American Poultry Association."

Do you want to get twice as many eggs?

See announcement on page 793.



Madison Square WINNERS

Kulp's wonderful Rose Comb Brown, 242-egg strain; S. C. Brown, 240-egg strain; both big winners at Madison Square. Large birds, large eggs. 2 greatest strains bred.

Four customers in New York, two in Montana, one in Idaho, two in E. C., one in England and many others have written me that my Rose Comb Brown Leghorns excel all others as layers, and lay large eggs. I never had so many prizes reported as this year.

One man writes: "When it comes to Single Comb Browns you are in a class by yourself." I have most Wonderful male color. Stock for sale, all breeds.

Rose Comb White, first Madison Square, big white eggs, big birds, record of 244 eggs.

S. C. Whites—236 to 288 egg strains. No better in the world. Try them.

S. C. Red cockerels of 248 egg strain. They are the top.

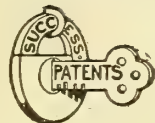
White Wyandottes—228 egg line.

Barred Rocks—270 egg strain.

Eggs \$2 to \$7 per 15. Catalogue.

W. W. KULP, Box 70, Pottstown, Pa.

Patent Your Ideas



Inventions bring fortunes when protected by good patents.

New ideas in great demand. I will get a valuable patent for you and help you make money from it. Ask about my free advice.

LESTER L. SARGENT

Cor. 9th and G Sts. Washington, D. C.

Sears' Barred Plym. Rocks



"Coliseum Queen"
Winner of two
Blue Ribbons at
Coliseum Show.
A record
never equaled.

Make Big Killing

at Northern Illinois Poultry Show, winning all first and second prizes on single birds, and three firsts on pens; silver cup for best ten birds in show-room, and silver cup for best display in American class.

EGGS, \$5.00 PER FIFTEEN (Express prepaid)

Circular for the asking.

Howard O. Sears Lock Box 6
Garden Prairie, Ill., U.S.A.

Silver Wyandottes

"There is Money in Silvers"

I WILL SELL EGGS \$3.00 for 15
\$5.00 for 30

I have a splendid lot of big, open laced birds—splendid layers. Also can spare a few high class show birds. Correspondence invited.

HENRY STEINMESCH ST. LOUIS, MO.



SILVER and
GOLDEN

CAMPINES

The Egg and Money Makers

Eggs for hatching—that will hatch—from the grandest birds that are properly mated for best results. Bulletin of facts free. My book "Campineology," de luxe and two-colored plates, 10c.

J. FRED N. KENNEDY
Box F Birch Cliff, Ont., Can.

Buff Chochin Bantams

The strain that won a reputation for us—will do the same for you.

15 Eggs \$3.50.

Circular free.

MRS. ADELAIDE C. WAINRIGHT
Department J, RED BANK, N. J.

ciation in a body if Curtis continues to dominate the conventions.

"I am about losing confidence in the American Poultry Association under its present management. If Richards denied dictating that report and Thompson and Peters fall into line with him, I am ready to say that Grant M. Curtis is some hypnotist. As God is my judge, Bailey, I told that just as it happened, but I want to state further that if I could honestly claim full responsibility for putting that finding thru, I would be proud of it. I would rather trust Harrison than either Penick or Curtis. This stink is likely to lead to serious difficulties in the Association."

The statements of Messrs. Bailey and Veach were published in March AMERICAN POULTRY JOURNAL, pages 515 to 521. The interested reader can draw his own conclusions.

Considering the source of the resolutions which resulted in the appointment of the American Poultry Association's inquisitorial investigation committee and also the personnel of the committee as appointed, the following clippings from Pres. Richards' March *Western Poultry Journal* and this letter from a New Mexico life member are both interesting and amusing. Truly the censoring and censoring might well begin at home:

Albuquerque, New Mexico, March 21, 1916. Editor American Poultry Journal:

As we journey by the way, is it not really amusing at some of the efforts that are put forth to "clean house?"

Seems to me that it is considerably over a year ago that you wrote your editorial that we do some cleaning from within and it appears that the advice there given could be well followed today and for some time to come, and it is time that some "censoring" was done and if rightly done might stop a good deal of censure.

Enclosed are two pages from March number of "Uncle Dick's" magazine: I assume the write up of Valley View is clipped from the *Inland*, but note what is said of these chicks by Hallet on January 7th, 1916, while just a short time before, on October 12, 1915, note what Thompson said about incubators. Now just such as that makes the rank and file wonder where the devil we are at and what the big guns of the American Poultry Association mean anyway. To say the least, it don't look good in the same issue of one paper and "Uncle Dick's" paper at that. Personally, it does not worry us, only makes us laugh, nor does it have any effect on what we shall buy and sell. We breed "Ringlets" because we think them the best chicken on earth, and we use Cyphers adaptable hovers because we have found them good, and voted our ballot for "Uncle Dick" and hope to meet him and the whole bunch at Cleveland; yet, at the same time, we cannot but feel that such things are hurtful and that your advice to "clean from within" still holds good, not alone for our own good, but for the beginner and prospective member, who we would like to have with us, but when he sees such contradictory junk in our papers he thinks "damn."

Life Member.

In condensed form the clippings follow:

"Approximately 4,000 youngsters are reared, and what was a complete surprise to us was the fact that each and every bird hatched and reared on the farm are hen-hatched and hen-reared."—(Report of Thompson's Valley View Farm, page 336, March, 1916, *Western Poultry Journal*.)

"During my more than thirty years' experience in breeding exhibition Ringlet Barred Rocks, I have never seen or used the equal of Cyphers incubators and brooders. I feel safe in putting my best Ringlet eggs in the Cyphers, whereas I would not trust them in a machine in which I did not have perfect confidence. This past spring I hatched a large number of very early exhibition Ringlet Barred Plymouth Rocks and am glad to state that many of them were hatched in your Cyphers incubator. * * * I put 41 Ringlet Barred Rock chicks in one of these brooders and raised 39 of them to maturity."—(From statement credited to E. B. Thompson, dated October 12, 1915, and published on page 371, March, 1916, *Western Poultry Journal*.)

With Editor Richards hot to reform the poultry business and censor and censure all erratic advertising, the appearance of above quoted statements in his March issue are certainly placing him



Start Right

There Will Be No Bowel Trouble When Feeding

Blatchford's Milk Mash

Raise 100% Hatch in Record Time

Don't take chick chances. After they are five weeks old, add 10% fresh corn-meal to the mash and you have the best growing food made, and you make it.

Ask us how to get 32% increased weight on your Spring Chickens in 12 days. It's a simple matter.

For sale at all dealers or

Blatchford
Calf Meal Factory
Waukegan Illinois

NEPONSET SHINGLES

Send for FREE booklet—"Repairing and Building" for full information concerning our products.

BIRD & SON, Established 1795
35 Neponset Street East Walpole, Mass.

LAYWELL WH. WYANDOTTES

Bred for Vigor, Laying ability and exhibition quality. Pens mated by Arthur G. Duston. Made clean sweep at the Vermont State Fair, 1915.

Eggs from pens 1-5.....\$5.00 per 15
6-11.....2.00 " 15

Utility Matings \$1.00 per 15; \$5.00 per 100.

Send for free circular and mating list.

LAYWELL POULTRY FARM
Box A Lyndonville, Vermont, U. S. A.

THE BIRDS THAT LAY AND PAY

BLACK Langshans

As in previous years we have again made a wonderful win at Boston, 1916, 1st hen, 1st cockerel, 2d cock, 1st pen. On White Langshans, one entry, and won 1st pen. Tell us what you want, we can supply you at prices that are right.

IVES, IVES and IVES, GUILFORD, CONN.

Barred Rocks—At Boston, 1916, we entered 2 birds and won 1st PULLETT, also 4th Pullet cockerel. This wonderful win, and there were 10 exhibitors. Stock and eggs, just like these winners.

Bear Brook Poultry Farm Wakefield, Mass.

Rockdale

White Plym. Rocks

Better-Bred Eggs \$3.00 for 15.

DEYOE'S, Station 1, Dodgeville, Wis.

Square Deal Poultry Farm's S. C. Black MINORCAS

3rd winners at Chicago in strong competition: 24 ckl., 5 ck., 4 hen and 3d pen: 9 pens for egg trade and baby chick. Write for prices.

MRS. TELLIE E. WAITS WEST CONCORD, MINNESOTA

Almendinger's Rose Comb Wht. Leghorns

Won at Buffalo, the past 5 yrs., 4 firsts and 3 seconds on chks., 3 firsts and 3 seconds on pils., and all firsts on hens. Choice birds, or eggs for hatching.

A. F. ALMENDINGER, 180 E. Delavan Av., Buffalo, New York

WHITE PLYMOUTH ROCKS

I have some very fine show birds for sale at reasonable prices. If you want good breeders I furnish them. Hatching eggs, \$3 and \$5 per fifteen.

WALTER P. NELSON

Route 21 Bayonne, New Jersey

Get the BEST HOUDANS and Golden Sebright

BANTAMS. Stock and eggs very reasonable.

Ralph W. Cagwin Williamstown, N. Y.

One of America's Oldest Fanciers

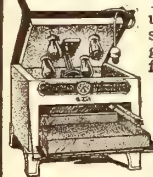
Mention American Poultry Journal

when writing to advertisers.

Hatch Chicks The Modern Way

Hatch 'em by electricity

This energizing force enables you to hatch chicks with but a fraction of the labor and risk involved in operating other machines.



The control of heat, moisture and ventilation is absolutely dependable. No guessing, no watching, no filling of lamps and trimming of wicks. The operation is perfect and insures a strong, vigorous chick from every hatchable egg.

Lo-Glo Electric Incubators

Make the hatching of chicks a real pleasure. These perfect machines are all metal, fire-proof, odorless, sweet and sanitary. Handsomely finished and may be operated in any room, store or office. Many users place them in the parlor or dining room. They're simple, practical and efficient. Sizes from 50 to 400 eggs. Successful, no worry, hatching insured by doing it electrically. Fully explained in our booklet.

Lo-Glo Hovers successfully carry on the splendid development of chicks started in the right way by our incubators. Sizes 50 chicks and up. Write for free booklet

Lo-Glo Electric Incubator Co., Inc.
76 Greenwich Street • New York, U. S. A.

STILES' COLORED LEG BANDS

TELL THE AGE OF POULTRY

Identify birds as far as you can distinguish colors. Made in Red, White, Blue, Amber, Green, Black, Pink and Ruby. Mention variety when ordering.



ECONOMY BRAND—Single coil for adult fowls. 12 for 15c; 25-30c; 50-50c; 100-75c; 250-1.80; 500-\$3.50. postpaid.



ROYAL BRAND—Double coil for adult fowls. 12 for 20c; 25-35c; 50-60c; 100-\$1.00; 250-\$2.25; 500-\$4.00. Postpaid.



Bands For Growing Birds—(two sizes, state age) 12-15c; 25-25c; 50-40c; 100-75c; 250-\$1.75; 500-\$3.25; postpaid.



Baby Chick Bands—25-20c; 50-35c; 100-50c; 250-\$1.25; 500-\$2.25; postpaid.



THE VICTOR BAND
Entirely New. Different from all others.
Large printed numbers, bright and clear colors—Red, White, Blue, Green and Yellow. 12 for 35c; 25-60c; 50-\$1.10; 100-\$2.00; 200-\$3.75, postpaid.



Poultry Punch,
Price, 25 cents.

CHAS. L. STILES

232 N. Third St., COLUMBUS, OHIO

BROODER

For \$2.96, including heater, you can build the simplest, most efficient, and most satisfactory brooder ever made. Wind-proof; fire-proof; rat-proof; fool-proof. Can be built in an hour by anyone with no tools but saw and hammer. Illustrated plans, 25c.

\$2.96

I. Putnam, Route 105, Elmira, N. Y.

Mention AMERICAN POULTRY JOURNAL when writing to advertisers.

in a ridiculous position. When we visited Valley View in December, 1915, we asked to see the incubators and brooders and we were informed that there were none on the home farm. In fact, it seemed to be a matter of pride that all chicks were hen-hatched and hen-reared. From the information then given to us by Valentine Thompson we made the following statement on page 45 of January AMERICAN POULTRY JOURNAL:

"Each season approximately 4,000 chickens are raised, all hen-hatched and hen-brooded. These are hatched so that first lots of chicks come about the middle of March and the last hatches about July 25th. Some early eggs are sent out to be incubated artificially, but all stock grown on the home plant is natural hen-hatched and hen-brooded."

It was then evident from the great number of brood coops for hens and chicks that the natural hatching and rearing method was the prevailing one.

Well, that's a funny break of "Uncle Dick's" any way you look at it. Also it is remarkable how freely testimonials of all sorts are given and how the dates are marked up on old ones. We recall visiting a certain Eastern plant a few years after it had given a most remarkable and glowing testimonial for a certain incubator. We found the machine, still in its original crate, out in the shed and covered with a great accumulation of dust. However, that is nothing against incubators and is only an illustration of a particularly human side of human nature. We use both hens and incubators ourselves and right at the present writing have some of the eggs from our best pens in an incubator and under hens. Often at the end of two weeks we take them out of the incubator and finish the hatch under hens; particularly when we want to mark a certain lot of chicks from special eggs.

Wonder if the censors will get busy in their own back yard? Gracious! When we think of the many things that any, or all, of us might be censored and censured for, it makes us wonder when that "purify the other fellow committee" will find time to eat and sleep. Let's hope that the committee members will set us a good example.

Well! Well! We hope none of those interested missed that beautiful four-panel cartoon of us on page 466 of April *American Poultry World*. Pardon our blushes, but we are not accustomed to appearing in public so scantily clad as Artist Schilling has depicted us in the abbreviated skirts of a Roman gladiator—it looks more like a modern ballet costume to us. And then there is the cunning little foot note in which Curtis tries to hide himself behind the skirts of W. C. Denny, said skirts being scantier than those granted us and affording little concealment. We recall that several times Denny expressed to us his willingness to be Curtis' "little yellow dog," but we really did not expect to see the master cowering behind the friendly wag of the "little yellow dog's" tail. It must be tough for employes on half pay to have to fight the boss's battles.

AMERICAN POULTRY JOURNAL in the fourth panel is presented as a great tortoise, with the legend "watch our speed." Let's see, wasn't there an ancient fable about a tortoise that won the race by being slow, perhaps, but sure and steady? Denny says that Schilling was "prompted to prepare first one and then another of this series of illustrations" by reading our open-letter to the American Poultry Association,—there are four of the pret-

MOHAWK POULTRY FARM

White Langshans



Eggs from flocks of utility birds at \$1.00 per 15, or \$5.00 per 100; \$2.00 per 15, or \$10.00 per 100. From Pen of Fancy Stock, \$5.00 per 15. Eggs from White Indian Runner Ducks, \$1.00 per 12.

R. H. Moore, R. F. D. 1, Nellie, Ohio

Sacrifice Sale of POULTRY EQUIPMENT

Best cash offer secures the following:

- 2 Large Laying Houses (portable), size 18x45
- 1 Single Colony House (portable), size 10x12
- 1 Single Colony House (portable), size 10x18
- 1 Double Colony House (portable), size 10x34
- 1 Cyphers Incubator, 4 compartments, 248 egg capacity.

- 1 Banta Incubator, 248 egg capacity.
- 1 Sectional Paradise Brooder.
- 1 Hoyer.

1 Bone Cutter, good size and many minor appliances, including roosts, nests, egg cases, drinking fountains, etc.

All in excellent condition; will sell in entire lot or separate. Address

M. KORTUM
2660 Burling St. Chicago, Ill.
Tel. Lincoln 4165.

Regal Red Farm

Wonderful exhibition matings for 1916. These Reds are bred for type and color, as well as heavy egg production. Why not get the best? Fine illustrated egg circular sent on request. Stock all sold. Satisfaction guaranteed.

G. H. SHOENHARD, Box 17, FREEPORT, ILL.
Originator of Regal Strain S. C. Reds.

RESULTS TELL

When one exhibits at Boston Show they go against plenty of competition and quality. A win means you have the goods. My mating list gives my great win at Boston, 1916. This includes 1st cockerel, "Tantalizer" by name. Eggs from pen headed by him are testing 98% fertile. Eggs ordered before May 20th are half price. Write me today. Prices will suit you. Barred Rocks only.

W. W. CARPENTER - East Providence, R. I.

COLUMBIAN WYANDOTTES.

Eggs for hatching from winners at Chicago and other leading shows. Won 9 1sts, 5 2ds, 3 3ds and many other prizes the past season. Write for free mating list.

JOS. HAUKE, Palmer Place, Waukegan, Ill.

S. C. W. ORPINGTONS

First prize winners at Wis. State Fair and Milwaukee Natl. Show. Fine prize winning trio S. C. W. Leghorns for sale. Write for prices on stock and eggs. Try us.

NOVAK POULTRY FARM Route 1 Racine, Wisconsin

BLACK LANGSHAN

Eggs for hatching from my Milwaukee winners at bargain prices. Satisfaction guaranteed. Write today.

GEO. COOKE, Route 1, RACINE, WIS.

R. C. BLACK MINORCAS

Eggs for hatching from Cleveland and Dayton winners. Order now. Half price after May 20th.

PHILIP J. MINCH, 1907 E. 97th St., Cleveland, Ohio

Barred Plymouth Rocks

Eggs for hatching from both matings, \$5 per 15. Satisfaction guaranteed.

CARTER'S POULTRY FARM,
Jonesdale, Wis.

ty pictures. In one we are represented with a "shield of insincerity" and in another dipping our pen in the ink of "spleen and jealousy" or "envy and hatred." Wonderful how history repeats, for other editors, in days gone by, were represented as feeling the same emotions toward the Little Sultan. Fortunately we are not at all emotional, and in the cold analysis of dawn it looks to us as if the "boot was on the other foot."

As to "little Arthur's" own sincerity and loyalty of purpose, we wonder, and, wondering, feel some doubt. It certainly is not very much over a year since he came to us with a pitiful tale of how his boyish inexperience and the "virtuous one's" hypnotic speech had led him to trust some \$4,000 of his savings and earnings in one of his master's enterprises—as we recall it, only one block of the stock had been guaranteed redeemable at par by indorsement on its face—and he had heard that we had recovered par for our stock and he wished us to help him with advice on how to get his money back. Also, we believe, there was a hard luck story about having been on only half pay since the trip to Germany. As we remember it, we advised him to ask for the refund of his savings. Surely so virtuous an employer would not refuse to return the "candy taken from an infant." But, what gets us, is why, if so sincerely loyal and loving, did he come to us with his tale of woe? Why not appeal to the chief promoter of the American Poultry Association alleged purity committee? To paraphrase a "famous" headline, — If \$1,000, why not \$4,000?

* * *

Los Angeles, Cal., March 26, 1916.
Dear Doctor:

Have just read "copy" of your open letter to American Poultry Association and comments thereon by the "Hon." Grant M. Curtis. I say go to it and bring 'em all to time.

Am enclosing herewith some letters and copies that I think by careful study will be self explanatory. I am a rank amateur in poultry business. I can see thru a four-inch plank, if there is a knot-hole sufficiently large. Simile is from my experience in lumber business. You are at liberty to quote me verbatim herein; comments on back of letter and my copies. I say that "the pot should not call the kettle black." C. D. Loehr.

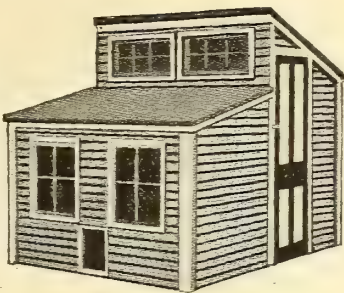
Mr. Loehr encloses correspondence which shows why he decided he would not invest in breeding stock from the poultry farm in which the editor who is "investigating hucksters" is interested, as he could not get satisfactory answers to his queries and considered the letters sent him too evasive and indefinite as to what he would get. He decided on strength of correspondence that he sends to us, that he would invest elsewhere and the plain, honest, straightforward advertisement of veteran I. K. Felch appealed to him. In a note on back of one of the letters, Mr. Loehr says:

"I bought White Rock yearlings of Uncle Isaac Felch, Natick, Mass., and got extra good value for my money. Uncle Ike is O. K. He sent me a cock scoring 94½, one hen 96, three hens 95½, one hen 95, three hens 94, one 93 and one 90, all for \$50, and the ten hens have laid 212 eggs since February 12—today is March 26. He did not give me any evasive replies nor misrepresent anything in any way. I admire him and am going to boost him at every opportunity." C. D. Loehr.

No, "you can't fool all of the people all of the time."

* * *

John C. Jodrey, who became a leading Silver Wyandotte specialist and who, we believe, is now in England, used to be one of our near neighbors and on a little back yard plant kept several breeds,—and if there ever was a real bred-in-the-



Are Your Fowls Properly Housed?

Perfection Portable Poultry Houses

Have Solved the Problem

Thousands of Poultry Raisers have become successful thru the use of these houses.

Write for our illustrated catalog. It will tell you all about Perfection Houses and why we can sell you a high grade house at a price considerably less than you can afford to build one.

Enclose postage for catalog.

PERFECTION PORTABLE POULTRY HOUSE COMP'Y

Phone Monticello 200
4040 N. California Ave., CHICAGO
(In no way connected with any other Co.)



Wheeler's Royal White Wyandottes and R. C. White Leghorns

1000 Breeders for Sale; Young and Old

Extra large snappy, vigorous birds with world of color and type. Trap-nested and bred for heavy egg production. Wyandottes bred from America's best strains. Leghorns sired by Madison Square Garden and Boston Winners.

EGGS—EGGS—EGGS—EGGS—EGGS

The pens that will produce 1916-17 winners, mated Dec. 15, and can furnish you eggs from the best matings that I have ever mated. Eggs from all pens have proved to be running very high in fertility. 1916 catalog. Send for your copy today.

Satisfaction Guaranteed.

Prices Reasonable.

ALBERT V. WHEELER Route 1, CARLINVILLE, ILL.

Fernbrook Farm White Wyandottes

Won at the Great National White Wyandotte Club Meet at Buffalo best display by more than double the points scored by our nearest competitor. Winners at Boston, 1915 and 1916. Also winners of all blue ribbons at six other large shows in the last two seasons. A few choice breeders in cocks, hens, cockerels and pullets left for sale. Eggs from the ten finest exhibition matings we ever put together, \$5.00 per 15; \$9.00 per 30; \$13.00 per 45; \$25.00 per 100. Utility eggs, \$8.00 per 100. It will pay you to send for our 16-page mating list for 1916, giving description of our superb matings, winnings, illustrations, etc.

FERNBROOK FARM

Arthur G. Bouck, Mgr.

Box A, Menands Road, ALBANY, N. Y.

Barred Rocks, Black Langshans, Light Brahmas

Over 60 prizes won this season at 4 leading Ohio shows, including the Forest City Exposition and Cleveland Winter Show. Eggs for hatching from our finest exhibition matings, \$2, \$3, and \$5 per setting.

MOORELAND POULTRY FARMS

MENTOR, OHIO

Hansen's Buttercups

Eggs from first pen, every bird a prize winner, \$5.00 per 15. Eggs from utility pens, every one headed by a prize winner, \$2.00 per 15, \$10 per 100. Write for mating list.

DR. M. A. HANSEN

OSAGE, IOWA

URBAN FARMS

Pine Ridge, Buffalo, New York

Stock and eggs for sale from our prize winning strains. White Rocks, Black Langshans, Anconas. Eggs only from Black-Tailed White Japanese Bantams, Mille Fleurs, Silkies, and Tom Barron's best strain White Leghorns and White Wyandottes. Mailing list now ready.

FOR BLACK OR SILVER LEGHORNS

EITHER KIND WILL LAY AND PAY EVERY DAY IN DECEMBER OR MAY—

J. C. HILES, 18210 CORNWALL RD. CLEVELAND, OHIO

SQUAB BOOK FREE

for 1916, telling how a Mich. hired man now works for himself breeding PR squabs and selling for \$5 doz., how an Ind. man sold 4652 PR squabs for \$1265 in 1915 and desired to leave the farm, how a S. C. man ships PR squabs 125 miles to city hotel by parcel post at \$4.25 doz., how another earned one thousand dollars with PR stock from start with only one pair, how a Texas judge bred 8 pigeons until they amounted to a flock of 164 in one year, how a Vermonter bred 25 pairs to 800 pairs in two years. You can do the same. More money-making experiences. **Write today for this big free book.** How to get six dollars a dozen, how to start small and grow big. We ship breeders everywhere, safe delivery guaranteed. Read how one of our customers gets as high as \$8 a dozen for squabs in Pittsburg and makes a net profit of ninety dollars a month. Note his selling methods. Reading matter which is alive with selling as well as breeding ideas. Squabs well sold are easily raised. Many successful women customers. Read of their methods and the results they accomplish. For prices and full particulars see our free book. "How to Make Money with Squabs." Write for it today.

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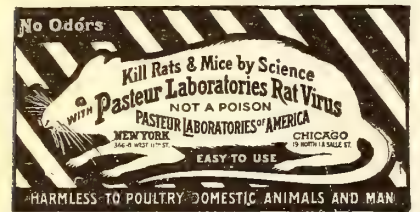


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that will save its cost several times a year and will furnish one to two bushels per hour of fresh ground corn, oats, peas, dry bone, oyster shells, nut shells, dry stale bread, etc., for poultry feed, or will grind table meal for family use.

A child can operate it. Thousands sold annually. Shipping weight 40 lbs. We also build a full line of Power Feed Mills, Samson Wind Mills, Gasoline Engines, Hardware Specialties. Ask for Catalogs, stating line in which you are interested.

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Natural Hen Incubator \$3

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ENGLISH-LEGHORNS
5-6-7 lb. hens, 7 and 8 lb. cocks. Fertile eggs, guaranteed. Trap-nested and Pedigreed Stock.
WILLIAM B. WHITNEY
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POULTRY CUTS
New designs. All varieties. 16 page catalogue free.
CHAS. L. STILES, Columbus, Ohio

bone fancier, Jodrey fills all requirements. We haven't seen him for a number of years and have not had a letter from him for a long time. We would like to have a talkfest with him once more. Most of the other "old timers" in the fancy, who were our near neighbors in those days, have gone beyond; but we cannot help wondering what they would think of the political buncombe and money-mad commercialism that is pretending to represent fancy poultry interests now-a-days.

An Opportunity of a Lifetime.

For Sale—Poultry Plant with 600 Orpingtons.

Established for years. Doing \$8,000 business yearly.

Nine thousand feet of floor space in perfectly constructed poultry houses, including large heated conditioning room for exhibition birds.

Twenty-one yards in blue grass. Six foot attractive wooden fences boarded up thirty inches high. Fencing painted green. Houses painted red. Abundance of shade. Landscape gardening with ornamental trees. Spacious lawns about residence. Five thousand dollar residence with roof garden; ten rooms, including large hardwood floor ballroom; basement with large furnace and water works working perfectly; model bath room; beautiful interior decoration; splendid lighting system. Decidedly private yet but three minutes walk from steam and electric depots; freight, express and telegraph offices. Local and long distance telephone service.

Six hundred superior Buff, Black and White Orpingtons richly bred and possessing world-wide reputation, many of the birds capable of winning in the keenest competition in America.

This entire property, together with the stock of Orpingtons, \$10,000. Terms, \$5,000 cash; balance terms. Owner will reliably explain how this plant can be continued on paying basis as in the past as \$80,000 business has been accomplished past ten years.

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For further particulars address American Poultry Journal, 542 South Dearborn St., Chicago, Ill.—Adv.

Disqualifications.

A few prominent poultry breeders are advocating that disqualifications for trivial defects like down between the toes, one-half inch of white in black varieties, etc., be abolished. And it does seem ridiculous to disqualify a bird of fine type, size, etc., for some of these defects and give the prize to some inferior bird free from them. Of course it is proper to consider these things as serious defects, but the objection is to considering them as disqualifications. There seems to be a growing impression that type, size, etc., should take precedence over fancy points of so little practical value.—The Poultry Record.

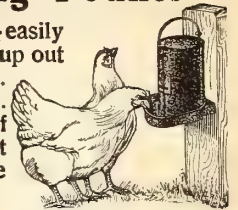
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34 years the standard—holds over 1200 First Premiums, awarded on superior merit. Guaranteed successful in your hands or your money back. Get Free Poultry Book and my low price before you buy.
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Keystone

Drinking Founts

Quickly filled—easily cleaned. Hung up out of the way. 1 qt. 35¢; 2 qt. 45¢; gal. 65¢; 2 gal. 95¢. If your dealer can't supply you, write us.



"Blue Hen" Mammoth

Incubators Big money in custom hatching and day-old chicks. Take advantage of our present low prices and place order for later delivery. Send for details on Mammoth and Lamp Incubators.

Colony Brooders, \$14.50 to \$38

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The Perfect Disinfectant

Kres-Oleum was used extensively in the fall of 1915, in the epidemic of hoof and mouth disease in the Chicago Stock Yards. One gallon of Kres-Oleum to 100 gallons of water produces a Milky White Emulsion containing the best antiseptics from coal tar. A Disinfectant, Germicide, Purifier and Cleanser.

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TABLETS
ONLY RATS WILL EAT
TRY BEFORE YOU PAY
KILLS 4 RATS FOR 1 CENT
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FREIGHT PAID \$5-
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Best built—double walls, hot water heat, copper tank. Full equipment—lamp, regulator, thermometer, etc. Freight Paid. Order today on Satisfaction or Money Back Guarantee—or write for literature. We make Brooders, too.
RELIANCE INCUBATOR CO., Box 50 FREEPORT, ILL.

Crown Bone Cutter

EASIEST run, Fastest Cutter, Strong, Substantial build. Bone scrap means more eggs, higher percentage fertility. Own a "Crown" Cutter and have fresh bone for every feed. Dry Bone, Grain and Shell Mills. Hand and Power sizes. Free illus. catalogue. Est. 36 years
WILSON BROS., Dept. 6 Easton, Pa.



Best Made—Lowest in Price

Home and the Table

Good Things for Everybody

Helen T. Woods
Editor

They say that once a proud and sinful King,
Alone with his own conscience on the shore,
Beside the billowy ocean fell asleep:
And rising up in wrath, the mighty deep
Engulfed the wretch, with fierce and thunderous roar.
Oh, ye do well, ye despots of the world,
Never to close your eyes repose to take.
The people are a sea—a deep strong sea,
That thinks, and punishes, and wrathfully
May rise and swallow you. Keep wide awake!

—From the Spanish of Julio Flores.

BENJAMIN FRANKLIN once remarked that there was nothing about which men took greater pains than to make themselves unhappy. To one reading the preparedness propaganda so frantically presented by numerous newspapers and "fear" begetting books, it looks very much as though good old Ben Franklin was about right on the matter, as he was on so many others.

Presumably, when "peace has become a menace," as one writer tells us, the war jingoes feel in duty bound to get out and shout lustily for war. It all would be most amusing if it were not

so serious to note the tremendous burden of responsibility shouldered by some of our "war at any price" leaders, in their effort to exercise coveted authority over useful, well behaved people. The war leaders seem to possess that strange hallucination common to the exaggerated ego type of man, wherein if he does not lead the band, and the people fall right into line, he endeavors to lead us to believe that the world will go straight to "smash."

As a matter of fact, most people not only do not need authoritative rulings but they behave a great deal better without them. Most of us have very little

need of a policeman's services and thousands of people live entirely out of their reach. Really very few of us are bent on committing murder, but where a man really has murder in mind, he usually commits the crime regardless of laws or the police. But where we have one man of this unfortunate type, there are thousands of sane minds who prefer to live and let live.

Regardless of the promises of security with which the preparedness advocates make free (providing, of course, we spend our all for arms and munitions) there exists among humans, *nothing so powerful as an idea of right and justice*. The only thing that has survived in the long line of bloody wars, as far back as we have any history of man, is this militant idea of right. And powerful as is the war craze in some individuals, even though backed with force of arms, it is *not so powerful as the instinct against and disapproval of war in the better class of humanity*.



Norwich
Automatic
Feeder
Four Sizes

Prevent Stampeding In The Brooder House —The One Danger Of Brooding In Large Flocks—

Stampeding and crowding at feeding time is completely eliminated by the use of the Norwich Automatic Exerciser and Feeder as the chicks are fed a little at a time and all the time, while the Norwich Automatic Air-Lock Fountain with Cup Guard prevents drowning, supplies an abundance of absolutely fresh clean water, and the constant care, worry and labor of feeding and watering are all reduced to a purely automatic action.

RESULTS—PEACE, QUIET AND COMFORT

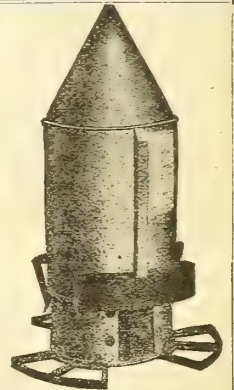
insuring rapid and perfect development and the best and strongest chicks you ever raised, for they must work and exercise for a living just as Nature intended they should. Expert poultrymen know there is nothing that will develop chicks as perfectly or as rapidly as the Norwich Feeder.

Try this method on our guarantee of satisfaction and save the little fellows you are sure to lose where stampeding and crowding is the rule every two hours when hand-fed.

Tell us how many chicks you are going to brood to a flock, and we will tell you exactly how to put the house on an automatic basis that will prevent loss, reduce labor and produce results.

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Hundreds of high-class breeding birds yet to select from. Pens or trios a specialty, at modest prices. Mating list ready, describing 16 of the strongest breeding pens ever put together. Write your wants to

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Box A

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The Automatic Safe Set No. 10 and the book mentioned above free if your order is received at once. If not satisfactory return and I will refund. If you prefer I will send them C. O. D. by Parcel Post and you can just pay the mail man for them.

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Barred Plymouth Rocks



BUY your exhibition and breeding eggs from a firm that has been in the business for 25 years. No matter what you pay, no one can furnish you superior quality than we can. 34 Premiums at the Ky. State Fair and Louisville Show this past season, prove the quality of "Pope Strains."

Great Armory Show, Louisville, Ky., Nov., 1915
5 First; 6 Second; 4 Third; 1 Fourth; 2 Fifth
and the Grand Trophy for Best Barred Plymouth Rocks

Kentucky State Fair, September, 1915
4 First; 2 Second; 2 Third; 1 Fourth; 3 Fifth

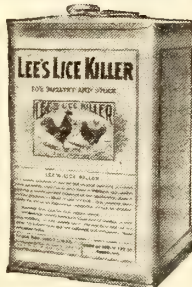
We supply cockerel and pullet bred eggs from the best winners we have and when you buy eggs from us you get the best in America to-day. Our quality is wonderful, yet our prices are the lowest of any of the big breeders. You will make a great mistake if you purchase before getting our mating list and catalogue. Send for catalogue No. 3.

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Kill the Lice and Stop that Roup

LEE'S LICE KILLER and **GERMOZONE** are now obtainable at most towns. Where not, we can deliver Germozone by mail at 50 cts. (tablet form) and Lee's Lice Killer at \$1.25 per gallon can, express paid. Send for our new books, just out, **"Care of Baby Chicks"** and **"Secrets of Success with Chickens."** Best ever published. Condensed experience of twenty-five years in handy, readable, memorable form. Invaluable for reference all through the season. Free for stamp.

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Bred for heavy winter egg production as well as exhibition qualities. Trapped stock. Greatest egg record 284. Winners of the blue at New York, Allentown, Pa., N. Y. State Fair, Syracuse, and Hagerstown, Md.

Chix, stock and eggs from these large dark birds. Catalog free.

GEO. N. BARSTOW, Box A, Oneonta, N. Y.

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McConnell's S. C. B. Minorcas

Order now your eggs for hatching. Every egg guaranteed fertile, regardless of distance shipped. Pens headed by **World's Fair Winners.** Mating list free.

J. V. McCONNELL

Box A

GARDEN GROVE, CAL.

Along this line a recent writer said:

"The great majority live soberly and kindly with one another, asking only to be allowed to earn a fair living and instead of requiring huge establishments to make them behave, they are more often at their wits ends to know how to make their officials behave. They do not get their countries into war. Their officials get their countries into war and then the people have to die to get the country out of war. What keeps the world going is not official authority but the inborn honor, the native worth, the ingrained goodness and faith of common men and women."

For the past year or more we have heard a great deal along the line of war prevention. It is claimed that in order to prevent a fight, it is necessary to get ready to fight. In private life, we find that the man who erects a "spite fence" and threatens to shoot his neighbor for trespass displaying his preparedness by "trusty musket" ready to carry out the threat is the man who has serious trouble with his neighbor—if he does not have to pay for his fun in the electric chair. On the other hand no man who prepares himself for life by treating his neighbor as a fellow human being ever has serious trouble with his neighbor; and he is relieved of the burden of carrying about a loaded gun all the time. It would be a fine thing for us to remember that "valor is stability not of arms and legs but of courage and soul."

On reading some of the theories of those who claim to be so eager to resent wrong doing or injustice, and would plunge a whole nation into war to avenge the loss of one citizen at sea or on a foreign shore, we are reminded of the philanthropist (?) who lends aid for the Christianizing of heathens in foreign lands while he robs everybody right and left at home. The promoter of a "war of righteousness" which goes across seas or invades a foreign country because of "unthinkable conditions" there, and lifts not a hand to prevent far baser and more degrading conditions within our own confines is neither sincere nor righteous but false to the core. Thousands of lives are crushed out annually in factories, stores, mills and tenements under the very noses of those sitting supinely by and advocating that we "clean up Mexico" or the Fiji Islands. True the work which needs doing at our very doors does not instigate wholesale murder of innocents in the work of bettering conditions, while advocating the "righteousness of war" scatters fear among the people and brings political aspirants prominently before the public.

To date, no statistician has been able to even approximately estimate the destruction of the world's wealth in the present European slaughter. Experts tell us that in one hundred year's of peace, this loss cannot be made good. And for this wholesale waste, this illimitable destruction of the world's wealth, for every loss sustained, every man, woman and child must shoulder the burden for generations to come. Because a few "war at any price" officials in Europe could not keep the peace, everywhere here in this country we are today paying the toll.

Prof. Scott Nearing, one of our most



Old Dutch Cleanser
Chases Dirt

"A Revolution in Egg Production." See page 793.

advanced thinkers, in speaking on the futility of military preparedness for the prevention of war, not long ago said: "Preparedness is a double barreled gun and both barrels are aimed directly at democracy. A nation calling itself democratic, which means fraternity and brotherhood, and which dares to furnish others with the means for killing their fellowmen, is digging its own grave."

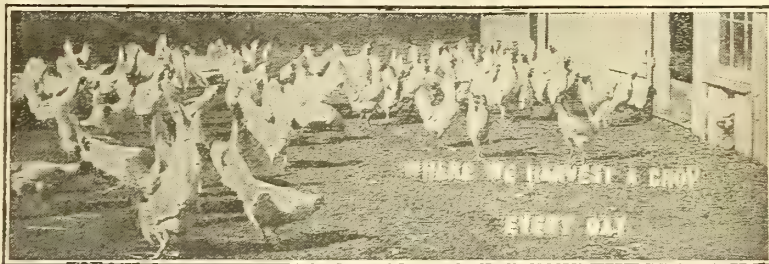
Where not advocated for selfish reasons, military preparedness is nothing more than an appeal to fear. For a good many years the human race has been endeavoring to free itself from the demon of cowardly fear. No matter how instigated or from what foolish cause, fear is an unworthy quality and while in its grip, the victim is wholly incapacitated for constructive work. A contagion of fear is more deadly in its results than many of our most dreaded diseases. Once it gets a start, it spreads like wild fire. A campaign of fear is the leading feature of the preparedness propaganda and is a danger signal of criminal patriotism. Fear is a quality dangerous alike to the individual and to the public good. It is always dangerous and frequently fatal to allow the imagination free scope in a season of suspected peril.

The preparedness advocates make free use of the term 'patriotism,' and it is a high sounding word. In its true sense, patriotism does not foster the rights of any one race or nation above another. When narrowed down to some little corner of the earth or a favored few, it savors of partisanship and provincialism.

In the name of common sense, we prepare against any calamity, as long as we can do so without acting in direct disobedience to the laws of civilization. When we prepare for war, we deliberately prepare to disobey the most universally known law in existence. In every enlightened country it is unlawful to kill one man. By what right do we prepare to kill them by hundreds of thousands? The preparedness view of the matter has been likened to a man who prepares for the winter by laying in a stock of burglar's tools, making himself proficient in their use, and keeping himself informed where the best "hauls" may be made in case his crops fail, or a more capable man takes his job away from him. Most people, however, prefer to prepare for winter or for old age by making themselves more proficient in their chosen line of work and more useful in their community. To be sure, we have a police force in all the great centers of trade, but these officers of the law are not employed for the purpose of killing men. It is their duty so far as in them lies to capture offenders of the law and take them before a court of justice to be tried, and punishment meted out.

For economic reasons, if for no other, military preparedness in the hope of preventing war, is a failure. Emerson says, it is one of the laws of Nature that "whatever is excellent, as God lives, is permanent." In preparedness we set our seal of approval upon savage methods of existence. War's scourge has visited all races of people thru all ages of time. And while the most intelligent men for hundreds of years have voiced their disapproval of this savage method of attempting to settle disputes (for it never settles them) war has gone on fighting war. We might as well attempt to fight fire with fire. Military preparedness is not "excellent," therefore it is never permanent. A spirit of right and justice in

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"The Proof of the Pudding is the Eating"

Best day's laying in WINTER by 400 pullets, 324 eggs; another lot of 200 hens paid \$1.124 profit. They will lay as well for you. TESTED 10 YEARS. If you want the WINTER EGG AND BIG PROFIT, buy of the breeder that can give unquestionable PROOF. 20,000 chicks, selected GUARANTEED FERTILE hatching eggs and stock at a LET-LIVE price. Get my big free catalog. Write

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S.C. Brown Leghorn and Partridge Plymouth Rocks

Eggs for hatching from Chicago winners.

Prices lowest. Stock for sale. Mating list free.

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WYCKOFF'S S. C. W. LEGHORNS

35 years of continued success. Eggs for hatching and stock for sale. Send for free catalogue.

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BIRDS — Barred Plymouth Rocks — EGGS

Indianapolis, 1914 and 1915 State Champion Cockerel; 1st pen; 2d pen; 1st cockerel; 1st pullet; 2d and 3d hen. A limited number of birds for sale. Eggs at reduced prices.

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Mt. Carmel, Ill



100,000

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CHICKS

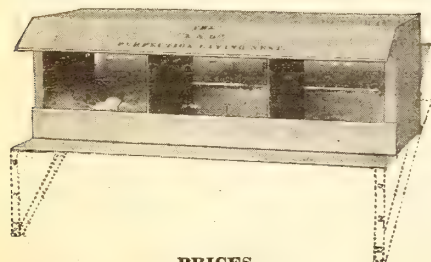
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S. C. White Leghorns.....	\$3.50	\$6.50	\$12.00	\$55.00
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Barred Plymouth Rocks.....	3.50	6.50	12.00	55.00
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Three sections.....	\$9.50
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Made her think she is doing so by using "A and D" Perfection Sanitary Laying Nests. At the same time increase your egg yield and health of flock.

Made entirely of steel. Provides no resting place for lice, mites or other pests. Are Larger, Stronger, Better and Different than any you HAVE SEEN. Order today or write for circular.

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Year by year, as our business has grown, we have discovered new and better methods of breeding, mating, feeding and housing. The four factors that go towards making blue ribbon winners. We want you to know all about "Mirimichi Quality," about our wonderful winnings at the World's Fair, New York, Boston and other shows, so we have prepared a catalog that gives you an insight into our "Quality," S. C. Rhode Island Reds, White Rocks and White Wyandottes. This book is free, so write for it today.

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I am offering big reduction in price of hatching eggs for the month of May. All from my best ribbon winners. Can furnish you with show quality and egg production combined most reasonable. A limited number excellent breeders for sale. Mating List and particulars on request.

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LILY WHITE POULTRY FARM J. F. Best, Mgr., Saginaw, Mich.

Buff Orpington Eggs

Pens contain CHICAGO, SPRINGFIELD, PEORIA and ILLINOIS STATE FAIR WINNERS. Our birds have that soft, even shade of buff so much desired. Stock for sale. Mating list FREE.

A. B. PORTER - Box 4 - LA SALLE, ILL.

our dealings with men and nations will eventually supercede the reign of terror and preparedness. If the war is to teach us anything, it is the futility of frantic preparation for war among individual nations for the purpose of preventing it. And there is every reason to believe that the sentiment against war as a means of settling disputes will have reached such proportions at the close of the European struggle that human warfare will not again be tolerated. Military preparedness beyond the bounds of sane usefulness to the Nation is nothing more nor less than the product of an hypochondriac hallucination and should everywhere be guarded against. Even a good thing when overdone becomes dangerous. Eating and sleeping are both very necessary to human life, but when carried to excess become dangerous to our well being.

No nation in the history of the world has prevented war by preparing for it. A nation mentally, morally and physically alert needs not "scare methods" nor force of arms to insure it a place in the sun. Military preparedness in any country will continue to be a stick of dynamite in the hands of a child until rigidly controlled by an international court.

SALMON AND MACARONI MOLD.

1 can best salmon, 2 cups macaroni, ¾ cup rich milk, 3 tablespoons flour, 1 cup cracker crumbs, 2 eggs, 1 teaspoon salt, ¼ teaspoon pepper, ½ teaspoon onion juice, 2 tablespoons olive oil.

Parboil the macaroni placing it in boiling water. Keep boiling steadily for twenty minutes. Pour off the water and cover with cold water for a short time. Chop the macaroni and add the cracker crumbs and seasoning. Remove the salmon from the can; drain, remove all bones, shred and mold into a small bowl. Moisten the flour with a bit of the milk and heat the remainder of the milk. Thicken with the flour mixture, being careful to prevent lumping. When thickened, remove from the fire, add the olive oil, stir well and add the beaten eggs and the chopped macaroni. Line a mold with a part of this mixture, filling in the center with the molded salmon. Cover over with more of the macaroni mixture and bake thirty-five minutes in a moderate oven or fifty minutes in a fireless cooker. A steamer mold may be used and in this case about an hour should be allowed for steaming and ten minutes in a hot oven to brown. Serve hot. This is very delicious.

AMERICAN MARMALADE.

1 orange, 1 grapefruit, 1 lemon, 2 small tart apples, equal quantity by measure of sugar.

Shave very thin the orange, grapefruit and lemon, remove all seeds and stringy pulp. Peel and core the apples. Measure these ingredients and three times as much water as fruit. Allow to stand over night. Place in a kettle and allow to boil for ten or fifteen minutes in the morning. Remove the kettle from the stove, put away in a cool place and allow to stand over another night. In the morning add an equal quantity of sugar and cook slowly until it jellies, stirring as little as possible.

AMERICAN DOMINIQUE

Choice breeding stock for sale.

C. W. BESSE - Jefferson, Maine

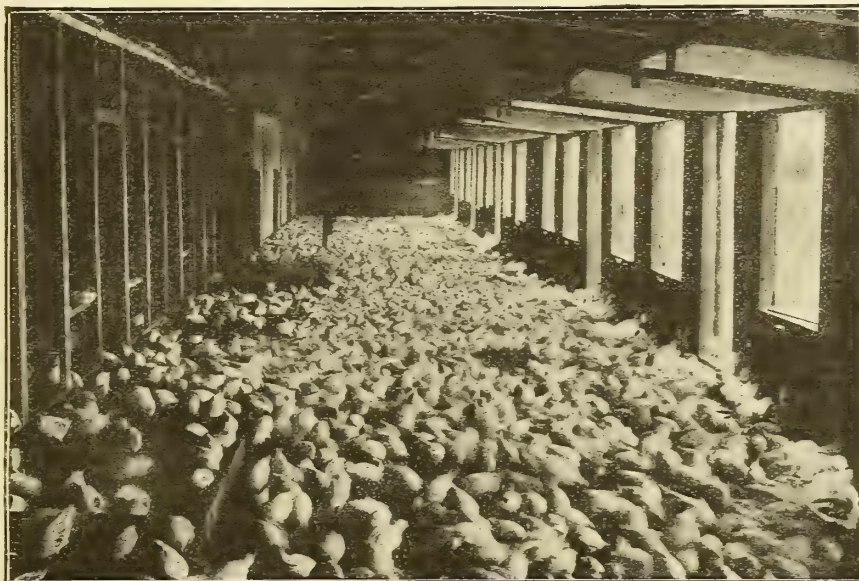
Horticulture for Poultry Keepers

Conducted by Thos. F. Rigg, Iowa Falls, Iowa.

MAY, THE MONTH of planting—the month of hope and promise! It does not matter now how many failures we made last season, all will be well in the year now before us. Personally, we feel that we are going to have a favorable growing season, that the weather is to be all that it should be, that the bugs

I have been making the usual dormant spray, treating the apple, plum, pear and cherry trees with Scalecide. This cleans the trees of all Aphis and other soft body insects which were missed when this dormant spray was given the vines in the fall before covering them for the winter. As I do not wholly uncover the

plication of spray material, and one which should never be omitted, is made not later than ten days after the petals fall from the apple, cherry, plum and pear trees. Spray with one gallon of lime sulphur and one pound of powdered arsenate of lead to fifty gallons of water. If you use arsenate of lead paste put in one and one-half pounds to the fifty gallons of water. Direct the spray



There are 7,000 chicks in the above picture. This picture was taken on the Morse White Leghorn Farm, Belding, Mich., when the chicks were about four weeks old.

and the blight will not be so very bad and that our shrubs and flowers will blossom abundantly, that the fruit vines and bushes and trees will yield a big crop. Of course, we fell all this. And why should we not? The promise of seed time and harvest made so long ago by He who rules over all has never failed the world, as a whole, and we know it will not now. And so we go to work these May mornings in the garden, the vineyard and the orchard with hearts as happy as those of the birds of summer who are merrily singing about us. It is a glorious privilege to be out here in the open, with this stirring of life on every hand, and I thank God that I am so blessed.

* * *

We arrived home from Florida a few weeks ago and found all well in the orchard and among the trees, shrubs and vines. Separated from our grounds by a very narrow strip of land, is the state game preserve. Rabbits and the game animals have learned that they are safe therein. The rabbits come to my orchards by the hundreds and heretofore I have had to protect every fruit tree by wrapping the trunks and some limbs with paper. It was a big job. Last fall I got up courage and tried painting the trees with Sulfocide. It worked to perfection. Not a tree was touched by the rabbits, and I tell you, I feel very good about this.

vines until the buds start in the spring I am unable to give them the Scalecide treatment in the spring, as I would like to do. Perhaps the most important ap-

BROWN POULTRY FENCE

FREE BOOK and NEW LOW PRICES READY

WRITE POSTAL NOW

Brown's Basic Open-Hearth Wire Fence lasts five times as long as chicken netting yet costs half as much. Big No. 10 top and bottom wires. Use half as many posts. Bottom wires 1 inch apart.

Direct From Factory — Freight Prepaid

150 Styles — Rock Bottom Prices

I have sold more than 25 million rods of Brown Fence to my 400,000 customers. My new free book tells why—quotes prices—saves you big money. Sample to test, also free.

The Brown Fence & Wire Co., Dept. 3 Cleveland, O.

Poultry Fence

26½c. A ROD

Made of Open Hearth heavily galvanized steel wire. Strong, durable, closely woven. Requires fewer posts and no base board or top rail. **Not a flimsy netting but a Poultry Fence. Sold direct to user.** Write today for free Catalog showing many styles of Poultry, Rabbit, Farm and Lawn Fence.

KITSELMAN BROTHERS
Box 295 MUNCIE, INDIANA.

Which way do you work your garden?



The old
back-breaking
way?

OR

The easy
Planet Jr
way?



The Planet Jr way takes the drudgery out of labor, and produces bigger, better crops. Planet Jr tools are the greatest time-savers ever invented for farm or garden, and the most economical cultivating tools you can use.

No. 4 Planet Jr Combined Hill and Drill Seeder, Wheel-Hoe, Cultivator and Plow pays for itself in a single season in the family garden as well as in larger acreage. Sows all garden seeds (in drills or hills), plows, opens furrows and covers them, hoes and cultivates easily and thoroughly all through the season. We make 32 styles of seed-drills and wheel hoes—various prices.

Fire-Fly Garden Plow is especially useful to owners of small gardens, and to chicken-raisers for plowing up scratching-yards. Its light weight makes it easy for man, woman, or boy to use. Enables the owner of a family garden to do all the work in spare minutes.

New 72-page Catalog (184 illustrations) free!

Describes over 70 tools, including 12 entirely new ones, and improvements to our Seeders, Wheel-Hoes, Horse-Hoes, Harrows, Orchard, Beet- and Pivot-wheel Riding-Cultivators. Write postal for it today.

S L Allen & Co

Box 1107T

Philadelphia



Dog Kennel

No. 4 Poultry House for 200 hens—5 units

No. 3 Poultry House for 30 hens

HODGSON PORTABLE HOUSES

The Hodgson poultry and dog houses enable you to take care of the stock with the least amount of trouble. This dog kennel is well-ventilated, sanitary and storm-proof. The poultry houses are made of red cedar, vermin-proofed, and are absolutely complete inside. All neatly painted and made in sections that can be quickly bolted together by anyone. Send for illustrated catalog.

E. F. HODGSON COMPANY Room 332, 116 Washington St., Boston, Mass.
6 East Thirty-ninth Street, New York City



S.C. WHITE LEGHORNS

ROSEDALE EGG FARM—PORT HURON—MICH.

Day-Old Chicks; 6 and 8 weeks old Pullets; Eggs from trapnested females with big egg records. Also day-old chicks from fine Rhode Island Red and Barred Rock Stock.

CARNEAUX PIGEONS the prolific squab breeders.

Write for Catalog and Prices.

COBURNS' Red and Speckled SUSSEX EGGS HALF PRICE AT SINGLE SETTING RATE STRAIGHT

Great Sale of all Breeders at Half Price June 1
Order now and get the pick of the flock.

Electric Stop: MAXWELL

H. H. & E. M. COBURN, Red Sussex Farm, St. Clair, Mich.

"Premier" Partridge Wyandotte Babies

60 cents each in lots of ten or more. May and June are the best months in which to obtain your start with these winners. All danger of chilling now over. Eggs for hatching \$5.00 for 15. Valuable catalog free. Mention American Poultry Journal.

SHEFFIELD FARM

H. B. Hark, Mgr. Poultry Dept.

GLENDAL, OHIO

Single Comb White Leghorns

Fancy-utility bred. Our pullets gave 50% egg yield November 1st, and 80% by April 8th, 1916. We guarantee our eggs to be high in fertility. Write for mating list. Price of eggs, \$1.50 to \$5.00 per 15. Special price per 50 or 100.

J. W. KLEIN

KIEL, WIS.

The
"Aristocrats"

Eggs from the greatest matings of the grandest Silver Wyandottes. Chicks from these matings will speak for themselves of their quality in the show rooms this fall and winter. 10 grand pens and every one headed by an Aristocrat. My mating list telling all about them is free; write for it.

FRANK FAHA, Jr., Box 730, Dyersville, Iowa

CHAMPION BARRED ROCKS

Leading winners at Philadelphia, Chicago, Allentown, Hagerstown and other shows.

C. GUY MYERS

SIDDONSBURG, PA.

WHITE WYANDOTTES

Eggs after May 25th from all pens including our Philadelphia winners, \$1.00 per 15, \$5.00 per 100. Chicks from the same pens, \$8.00 per 50, \$15 per 100. Hens for sale, \$2 and \$3 each.

CARR BROS., Celtic Poultry Farm

Box R, VINELAND, N. J.

LAYBILT S. C. W. LEGHORNS

Large, great layers; pure white strong day old chicks, now \$10.00 per 100. Guaranteed delivery alive and lively. Selected hatching eggs 90% fertility, \$1.50 per 100 prepaid. 12 choice 1915 females and 1 male, now \$15. **EVERFRESH EGG FARM** Box A **IONIA, MICH.**

Innijiska Strain White Rocks

Eggs from Illinois State Show winners half price after May 1st. Few choice breeders for sale.

S. A. TYLER

W. Lincoln Highway

DE KALB, ILL.

with good force into the open calyces of the newly formed fruit. If you do not get the poison so located, the worms will not be killed as they enter. For apples and pears, repeating this spray in fourteen days and again in six weeks is well, but I have raised prize fruit by giving the fall and spring dormant spray of Scalecide and using arsenate of lead alone for the spray just after the blossoms fall.

Watch the newly planted and other young trees very closely. In all probability they will be attacked by the Aphis unless they were given the dormant spray of Scalecide. The Aphis is doing full more damage to the orchards of this country than is the so much dreaded San Jose scale. Should the Aphis appear in any of the trees, young or bearing trees, give them a thoro spraying with Black Leaf 40. This will quickly kill these pests. In the use of Black Leaf 40, the most reliable and effective



A Buff Orpington female that has been a consistent winner at New England shows. Bred by Sunset Poultry Yds., Olneyville, R. I.

sulphate of nicotine preparation on the market, use about two pounds of whale oil soap (or any good laundry soap) to ten gallons of water. The soap will cause the spray to stick to the foliage of tree or vine. Be sure to use the Black Leaf 40 strictly according to directions. This is also very effective when used on any vegetable plant which is troubled with sucking insects. For the melon and cucumber louse, it is a complete and sure remedy. I use it with telling effect on all things so affected. Don't know how I could raise melons and squashes and cucumbers and sweet peas without it. I also keep the rose bushes from bugs by its use. I some time ago found that by using Sulfocide, one gallon to two hundred gallons of water, I can completely control the melon and cucumber blight. For spraying grape vines I have found Pyrox very valuable. It is a powerful remedy against eating insects and all fungus diseases and blight. Use this on the vines just as the blossoms fall and repeat from two to four times during the season.

Everywhere I go, I see the currant and gooseberry bushes depleted of their foliage and a loss of the crop. Now the currant worm, while one of the most destructive of all pests, is the easiest of all

to combat. Just as soon as the currant and gooseberry bushes come into full foliage, give them a thoro spraying with arsenate of lead, one and one-half pounds powdered or two and one-half pounds paste arsenate of lead to fifty gallons of water. Be sure to get a large quantity of the spray on the inside of the bush clear down to the ground.

The currant worm comes up out of the crown of the bush and if he gets the poison at the base of the bush he goes no further. If you do a good job now, you need not spray again this season for this insect.

Remember it is a fight all along the line in fruit and vegetable growing and there are certain things you must do or give up the battle.

* * *

I have been reading your articles on fruit culture in the American Poultry Journal for some time and find them most interesting and instructive. Since you have given advice to so many others on fruit problems, I would greatly appreciate your advice on the following matters:

We have been thinking for some time of going into commercial fruit growing, but thought we would like a milder climate and the South or Southwest would perhaps appeal to us more than the East. Would like a place where there is sufficient rainfall.

I have always been very much interested in fruits, but have never lived in a congenial climate for fruit growing. I was raised here in central Iowa, and when of age took up a homestead in Nebraska, latitude about 43, altitude about 2,000 feet, rainfall about 22 inches. Planted a couple of acres to fruit trees, mostly apples, cherries and plums, lived there until trees were in bearing, but late spring frosts took the crop about three out of five years. Some extremely dry years were hard on fruit there. At present we have about one and one-half acres here in the town of Jewell; one acre in strawberries, some apple trees planted around the outside. The rest of the ground is planted to plums in the chicken runs. While the returns from the small patch of ground are satisfactory for the amount of ground in cultivation, we need more for commercial fruit growing.

I would like to ask you what you think of the Ozark region of Missouri? How does it compare with the Piedmont section of Virginia? What do you know about Carter County, Missouri, as a fruit section? Do you think it is good for fruit and poultry? How would it compare with other parts of the Ozark country?

The cheap land, cheap fuel, etc., appeal to us if other conditions for profitable orcharding are favorable. We would expect to sell this place to invest there. We are a family of three. Have a girl nine years old in school. We would have to figure on planting some vegetables and strawberries between the trees, or other fruit trees for quick returns. Are peach trees all right for fillers in an apple orchard? Can you suggest a few varieties in apples, pears and peaches? I would aim to set out only the very best varieties for discriminating markets.

My experience is limited in spraying and pruning as yet, but I expect to learn as I go along. I shall be very grateful for any advice you can give me thru the most excellent American Poultry Journal.

I would also like to ask about the sprays called Scalecide and Pyrox. Could you kindly let me know in answer, soon, where I could get the same? How does Pyrox work on plums and strawberries? Will it take the place of Bordeaux and arsenate of lead in general work? I noticed what you said in American Poultry Journal about the wild crab apple you got from Indiana. I am interested to learn later on how it will behave. I am always interested in new fruits.

I am trying a few plums here, the Omaha, America, Gold, and three of Hanson's productions. We just opened a can of Huska plum and thought it fine. The America will probably fruit this year. We have a few raspberries and they seem to kill back a little. We also have a seedling gooseberry of large size and am going to keep an eye on it to see how it behaves later on.

Geo. Brandvig.

The foregoing letter is written by a man earnestly interested in fruit growing. I like to receive such letters. Every line teems with human interest. I will try and answer the questions in order of asking.

What do I think about the Ozark re-



Andrews' White Wyandottes

Great Win at Boston, 1916

in one of the largest and best classes ever shown—win 1st and 5th Cock, 1st and 2d Hen, 1st and 4th Cockerel, 2d, 3d and 6th Pullet, 1st Pen, Best Display. They have also won at Boston every year for 18 years. Buy your eggs from a strain that has been bred right and has utility value combined with fancy. Cockerels, Trios and Pens for sale. Send for Mating List. Eggs from Prize Matings.

ALL EGGS HALF PRICE AFTER MAY 20th.

J. W. ANDREWS

Box A

Dighton, Massachusetts

The Famous Vigorous Strain HOMESTEAD Silver Campines

The following citation shows what we ship our customers. From a customer in Mass., dated May, 1915—

"I am much pleased with the eggs; they are very handsome and uniform and I am looking forward with much pleasure to the time when the chicks will come out. Thanking you for the trouble you have taken and the courtesy shown for my small order."

Very truly yours, ———

We heard later from this lady that she got twelve beautiful, sturdy chicks and still later that she had raised every bird.

See our other ad on another page in this issue. May we be of service to you? Our aim is FULL VALUE, QUALITY and SATISFACTION.

HOMESTEAD CAMPINE FARM, Box A, Wayland, Mass.

May Is One of Nature's Best Months for Hatching Pape's S. C. Black Minorcas



Chicks hatched this month make our best show birds, prove our best breeders and lay when others are moulting. Am offering "eggs that will hatch" at about half price. Males that will improve any flock, hens in laying condition, utility and exhibition quality pens and chicks at introductory prices. As a table fowl their meat is juicy and well flavored. They can be kept profitably on free range or in the confined run of a city lot.

Quick growth, early maturity and remarkable beauty in form and feather have won championship honors for us and our customers at every show of any importance. Being non-setters, they lay large white eggs and many of them always. State requirements, we will help you. Catalog is free.

CHARLES G. PAPE, Box B74, Fort Wayne, Ind.

EGGS

Rose Comb Reds

1/2

Having hatched all the early chicks we can care for we are offering eggs at 1/2 our regular prices, right in the best of the season, when there is

PLENTY OF TIME TO HATCH WINNERS

for next season's shows. Write, today, for free mating list, describing the birds that win and produce winners. Fertility guaranteed, 100%.

Price

LONGFIELD POULTRY FARM, Box 321, Bluffton, Ind.

Single Comb White Leghorns

300 hens and pullets in full lay, for sale to make room, \$1 each.

Order from this ad. All have 200 egg blood.

APPLEGROVE POULTRY FARM

Delavan, Wis.

Special Discounts on Eggs and Chicks for May delivery.

EGGS

Single Comb White and Brown Leghorns
Single and Rose Comb R. I. Reds
Black and White Orpingtons
Barred Plymouth Rocks—White Wyandottes

Half Price

from our best matings after May 1st, regular \$5 value for \$2.50. 100% fertility guaranteed. Send for our big illustrated catalog.

QUINCY POULTRY FARMS, A-2700 Maine St., QUINCY, ILL.

S. and R. C. White Minorcas — Golden Campines

America's champions. Eggs half price. Now is your chance. \$5, \$2.50 and \$1.50 per 15. Order direct.

THOMAS BROGDEN, Specialty Breeder

Box C

RUSH LAKE, WISCONSIN

SPANGLED WYANDOTTES

Stock and Eggs half price.

L. COOK, Originator, OAKVILLE, IOWA



gion of Missouri? I think it is one of the most beautiful and healthful sections in all America. As a fruit producing section it ranks second to none. Here are to be found some of the most profitable apple and peach orchards in the United States. Pear growing has not been developed on a large scale, and I think it would be unwise to plant largely of this fruit in that state.

Carter County is not one of the recognized favorable fruit counties of the state. That is, the orchard development there has not been as great as in some other parts of the Ozarks. My correspondent should not overlook Arkansas, in his search for a new home, as a fruit grower. I believe Benton County, in the Ozarks of Arkansas, to be one of the best apple growing sections in this country. Mr. Brandvig is advised to write to the Secretary of State, Jefferson City, Missouri, and the Secretary of State, Little Rock, Arkansas, asking for booklets issued by the state on the apple growing sections of the two states. These books give only reliable information. Let my correspondent study these books, and then go down and make a very thorough investigation of all conditions.

Do not tie up with any orchard promoting company. Shun those fellows. I know nothing of the promotion company to which you refer, mention of which I have cut from your letter.

In comparing the Ozark country with the Piedmont section of Virginia I am sure one can raise as many and as fine apples in the Ozarks as can be produced in Virginia. But Virginia has an abundance of rainfall, whereas the Ozark country often suffers by a lack of rainfall. Then, too, the Virginia grower is nearer the best markets of the country. This is a very important factor in profitable fruit growing. Personally, I like the Virginia climate the better of the two. I hope, before locating, that my correspondent will carefully investigate both these sections. I am sure he will not make a mistake in locating in either.

Yes, peach trees are all right for fillers in an apple orchard. That is, some men have made a success of so planting, but I believe a large majority of those who have so planted have failed. The peach tree requires different culture and spraying from apples and I strongly advise against this system.

Were I to plant a commercial apple

orchard in Missouri or Arkansas I would plant Stark Delicious, Jonathan and Grimes' Golden. Have trees of Grimes' Golden double worked on Delicious stock. In peaches I would plant Early Elberta, J. H. Hole and Kimmell. Plant only for a few pear trees, Lincoln and Seckel and just a few Keiffer.

For inter-cropping would grow potatoes or some other vegetable crop which could be removed by August first, when a cover crop should be sowed in the orchard, the cover crop to be plowed under the following spring.

You can get Scalecide and Pyrox of any of the seed houses in Des Moines, Iowa. Pyrox is all right for plums and strawberries. It takes the place of Bordeaux mixture and arsenate of lead. Use a weak solution on plum trees.

Trust that in your seedling gooseberry you have a superior fruit. I save all seedling bushes and vines which come up on my place. Some time I may find a very valuable fruit.

* * *

Experts are already killing the peach crop for 1916. Don't you believe it. These fellows who represent the big buyers, will soon be telling us that the



Champion Gladstone Stock

S. C. Rhode Island Reds

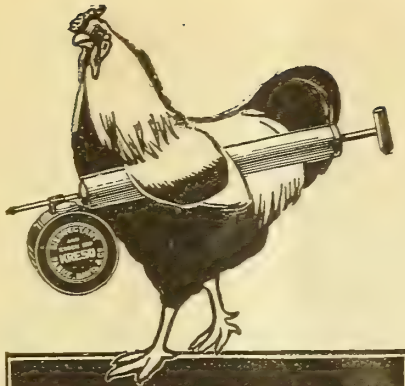
Eggs for Hatching, 1916 Season

We have mated up our pens and have hatched many hundred chicks. We know what our average is, what kind of chicks we have hatched, and we assure you that you never saw better ones.

Our pens contain winners: 1st Cock at Madison Square Garden, 1915-16; 1st Cock at Boston, 1916; 2nd Boston Pullet, 1915; 1st London, Ont., Pullet, 1914; 2nd Buffalo Pullet, International Show, 1914; 3rd Cock and Color Special at Guelph, Ont., Canada, 1915; winner of \$100 Challenge Cup, Boston, 1916; and other lesser lights.

You can get a setting if you write quick. Our mating lists are free.
ROCK LEDGE FARM SOUTHBORO, MASS.





KRESO DIP No. 1.

(Standardized)

DISINFECTANT. INSECTICIDE. GERMICIDE.

Kills lice and mites.

For treating all of the common diseases of poultry.

Prevents the spread of contagious diseases among poultry.

Kreso Dip No. 1 and a little effort will keep your poultry clean and healthy and increase your profits.

INEXPENSIVE. DEPENDABLE. EASY TO USE.

Will not harm poultry when used as directed.

For sale by all druggists.

We have a special FREE booklet on Diseases of Poultry. Write for one.

PARKE, DAVIS & COMPANY

Department of Animal Industry,
DETROIT, MICH.

WHITE LEGHORNS

"With The Lay Bred In Them"

Husky, vigorous, farm-grown birds, bred from many generations of pedigreed layers

EGGS—CHICKS—STOCK

of superior quality at moderate prices. Bred for business—sure profit-payers. Official Laying Competition records prove it!

We produce on our own plant every bird and egg we sell so can guarantee satisfaction to each customer.

FREE CATALOG will set you right on Leghorns. Write for it today!

SPRECHER BROS.

Box 14 Rohrerstown, Pa.

Big Cash Profits

Every Week on Chicks. Write me for details showing how beginners with Belle City outfits make \$10 to \$25 a week on day-old chicks. Get the facts! Any man, woman, boy or girl can do it by following my plan and using my

25 Times **402,000**
World's **in Use**
Champion

Get all facts, proofs, particulars—my low prices—money-back guaranty—also my \$1390.00 Gold Offers—all come with my big illustrated Free Book "Hatching Facts," in colors. Write me today. Jim Rohan, Pres. Belle City Incubator Co., Box 27, Racine, Wis.

Freight Prepaid, 1, 2 or 3 Months' Home Test

Belle City Incubators and Brooders

peach crop will be so large that prices must rule low. We will all have our regular supply of peaches this year, at a fair price, I am sure.

* * *

J. R. Duncan, Secretary Nebraska Horticultural Society, sees a great future for fruit culture in his state. He says:

"Nebraska at present might be termed as entering a period of horticultural awakening. The soil of Nebraska is as rich as any soil in any state. Our farmers have prospered as well as those of any section. In fact they have been making a living so easily growing diversified crops that the growing of fruit has not appealed to them. Especially is this true in the eastern part of the state. Here climate, soil and location have been combined in such a way that fruit is produced which has no superior for flavor, quality, texture, keeping qualities or color.

"Those men who have been engaged in the growing of fruit have demonstrated that the best methods applied to the production of the fruit and preparing it for market will enable Nebraska fruit to successfully meet any competition from any section.

"The Nebraska grower has been getting good living prices for his fruit, and making a profit on his entire investment."

* * *

The 500 delegates to the Northern Illinois Horticultural Society have adopted a new slogan, and it is a good one: "Put Illinois near the head of the list of fruit growing states."

* * *

Oscar Boisen of Douglas County, Nebraska, cleared \$1,744.00 actual net profit from his ten acre grape vineyard in 1915, and expects to do as well or better this season.

* * *

Young man, read this and consider it well. It is from the *St. Louis Times*:

Figures furnished by the Horticultural agent of the Frisco R. R. show that Dr. E. L. Beal, a well-known orchardist, realized \$585 an acre from a 23-acre orchard and netted \$457 an acre. The orchard is located near Republic, Mo.

* * *

All growing plants and trees must have a certain amount of nitrogen, phosphoric acid and potash. Without these they cannot grow or fruit. Just now the fertilizer market is all upside down. The U. S. Government has issued a bulletin showing from what these essential materials are derived. Read it carefully:

Materials Furnishing Nitrogen—Nitrate of Soda; Nitrate of Lime; Sulphate of Ammonia; Calcium Cyanamid; Dried Blood; Tankage; Fish Scrap; Cottonseed Meal; Horn and Hoof Meal; Hair and Wool; Leather Scrap.

Materials Furnishing Phos. Acid—Acid Phosphate; Bone Meal; Phosphatic Guano; Fish Scrap; Bone Tankage.

Materials Furnishing Potash—Potash Salts (from Germany); Unleashed Wood Ashes.

* * *

If you want this season to raise the finest pea crop you ever gathered, cultivate the vines properly and then just as the blossoms fall, give the vines a good supply of liquid fertilizer by using one ounce of nitrate of soda to two gallons of water. Soak the roots well with this once a week for two weeks. I keep a barrel for this purpose and use this fertilizer with good results on many things. It will cause sweet corn to fill out in a surprising way.

* * *

In answer to A. S. Rowe, Ohio, I am sure you can raise pears commercially on the Ohio river bluffs in your state. There are some very successful pear orchards there now. Write your state horticultural college for information as to the best locality, varieties to plant, etc. Grape growing on these bluffs has been on the decline for years. I do not know why.

RAISE Every Livable Chick

Rapid, healthy growth, splendid vitality and freedom from disease come from feeding your baby chicks

Pratts Baby Chick Food

Exactly what the young chicks need. Exactly what you have been looking for. Yet costs only a cent a chick for three weeks.

25-lb. bag \$1.50, 14 lbs. \$1.00. Packages 50c and 25c.

Then Start Using

Pratts

Poultry Regulator

immediately after the baby chick period. Insures early maturity. Develops heavy, constant layers. Prevents ordinary poultry diseases. Costs only a cent per fowl per month.

25-lb. pail \$2.50. Pkgs. \$1.00, 50c and 25c.

Pratts

Powdered Lice Killer

is not only highly effective, but is non-irritating to the skin and air passages.

In sifter top cans, 50c and 25c.

Pratts

Poultry Disinfectant

is a concentrated germicide, insecticide, deodorant, and antiseptic. When diluted ready for use costs only about a cent a gallon.

Gallon can \$1.00. Quart 35c.

Refuse substitutes. 415

PRATT FOOD COMPANY

Philadelphia Chicago Toronto

1/2 COST

and more eggs if you use

Succulenta Tablets

Winter green food is costly, troublesome and contains harmful fibre. Succulenta Tablets are cheaper, safer and better than green food. No trouble at all. Simply dissolve it in drinking water. Watch your fowls thrive and lay more eggs. 100 large tablets by mail 60c. Large can, 250 tablets, \$1.00 postpaid anywhere. Results or money back.

50¢

THE SUCCULENTA CO.
P. O. Box 405-1 Newark, N. J.

Use RIPPLEY'S Whitewasher and Sprayer

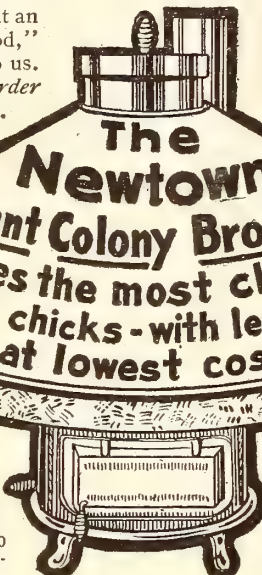
For Whitewashing and Disinfecting Hen Houses, Sheds, Spraying Bushes, Vines, Trees or Buildings 20 foot high. Made of brass and galv. steel. Prices, No. 15, 1-gal., all brass body, \$10.00. Galvanized body, \$7.50. "I have used your No. 15 Sprayer 10 yrs. to whitewash hen houses. Works fine. Respt. W. E. Miller, Independence, Kan. Order from this adv. or write for catalogue of Whitewashers, Egg and Chick Boxes, Poultry Supplies, etc.

Rippley Mfg. & Steel Boat Co.
Box #2 Grafton, Illinois

Newtowns Ready For Quick Shipment

There is still time to raise plenty of profit-producing chicks this season, but you must have a "sure thing" brooder. That's the **Newtown Giant Colony Brooder**—"the brooder that has made good"—the time-tested machine that has been so widely imitated but never equalled. You have no time to waste on untried brooding devices—you must "play safe" now.

You will not lose or ruin your chicks if you use the Newtown. The history of this great brooder proves this. So go to your dealer and get one at once. If he cannot supply you, if he tries to convince you that an imitation is "just as good," send your order direct to us. We will ship same day order reaches us. So act today. You will receive live-wire service and the best brooder made.



The Newtown Giant Colony Brooder
"Raises the most chicks - the best chicks - with least labor and at lowest cost"

**Self-Regulating
Self-Feeding
Coal-Burning
Economical
Convenient
Safe**

PRICES	
300 chicks size	\$20.00
500 chicks size	25 00
800 chicks size	27.50
1200 chicks size	32.50

Soft coal attachment \$1.00 extra. Prices west of the Mississippi River, \$1.00 additional.

The Premier Colony Brooder is double the size of other low priced Brooders, gives more efficient service, and the price is only \$15.00. Hundreds are now in use in all parts of the country.

NEWTOWN GIANT INCUBATOR CORP'N

21, Warsaw Street

Harrisonburg, Virginia

The bees came thru the winter in fine shape. A few days ago I examined each hive and made some of them stronger in stores. In three hives I found that the queens had died and of course it was necessary to arrange for re-queening their stands. I have arrangements with a queen dealer in Texas who supplies me with tested queens thus early in the season, and in a few days the queenless colonies will be given queens. It looks at tho we would have a good year so far as honey production is concerned. The white clover and sweet clover ought to be abundant, owing to the very wet season of 1915. I don't see how I could get along without my bees. I love to work with them. Then they are a great aid to me in fruit raising, and, too, they make me many dollars worth of honey each year. Last year a great many maple trees in this vicinity were broken by the ice and snow. Today the bees are working on these trees gathering the sap which is coming out at the broken spots. They are singing merrily and are making the most of this opportunity.

* * *

I want to urge every home owner who reads these lines to plant liberally of hardy perennials and shrubs this spring. These plants and shrubs once set out are permanent and a source of great satisfaction. In fact no home grounds are complete without such a planting. They are so satisfactory in every way and they are so cheap in price that every one can afford to order a generous supply. Each year I am planting more of them and less of the annuals. Of course, we must have some annuals. We could not well get along without our sweet peas, asters, etc. The list of desirable perennials and flowering and ornamental shrubs is so large, and the climate conditions of the country so varied that I cannot well here name the most desirable varieties. Consult some reliable grower and you will be given proper advice as to the wisest planting to make.

* * *

Not long ago some one asked me what were my favorite hardy flowers. I found that a difficult question to answer, but I think I would hold to the last, my iris, peonies and phlox. I am an enthusiast where these plants are concerned. For several years I have been getting together a collection of these favorites and each year I grow fonder of them. I think that last year the iris presented the most beautiful sight I ever beheld in my gardens. I wish I could be the means of interesting every home owner to plant liberally of these most charming flowers.

* * *

For about five weeks last winter the ground in this vicinity was covered by several inches of ice. As a result the strawberry plants suffered and many of them are severely injured. Those having the least covering of straw seem to be in the best condition.

* * *

In answer to F. F. Pratt, New York: Your elm trees are suffering damage inflicted by the elm leaf beetle. These pests

This One Minute Test Will Prove Whether Your Hens Are Lousy or Not



Dust a little Dr. Hess Instant Louse Killer in the feathers thoroughly, wait a minute, then fluff briskly over a piece of white paper and look for dead lice. Seeing is believing; make this test—it's the proof of the pudding.

Dr. Hess Instant Louse Killer

kills lice on horses and cattle, for sheep ticks, certain bugs on cucumber, squash and melon vines, slugs on rose bushes, etc. Sold in sifting-top cans. Sold under a money-back guarantee by a reliable dealer in your town. If not at your dealer's, write

DR. HESS & CLARK, Ashland, Ohio

**1-lb. can
25c
3-lb. can
60c**

(Except in Canada and the far West)

BURDIN'S AUTOMATIC SAFETY-LOCKING REMOVERS UNOBSTRUCTED VISION
Action free as Air Positive as a Vise



CAPONIZING
Why waste time and money on cheap, clumsy, imperfect instruments that will only disgust and disappoint you as they did me? My free illustrated literature describes the most efficient and convenient caponizing instruments yet devised. Every possible test and comparison invited. Failure unknown. Sold on money-back basis. Demonstrating agents wanted. Patents pending.
S. K. BURDIN, 66 TRANBY AVE., TORONTO, ONT.

48 Lessons In Poultry Culture

Covering every phase of poultry husbandry, each lesson complete, thorough, practical. Written by Quisenberry, the man who has done more for the poultry industry than any man in America. No matter whether you are an old hand or just beginning you will find these lessons will pay for themselves many times over. Write today for our free illustrated book, "Dollars and Sense in the Poultry Business." It tells the tale. **American School of Poultry Husbandry, Box 51 Mountain Grove, Mo.**



TOM Barron's Winners

All Egg Contests Prove Them

World's Greatest Layers

Are Still at MORRIS FARM
R. 4 - Bridgeport, Conn.

I have the Most Profitable Flock of Poultry in America, and you cannot afford to be without my blood.

Remember, you take my word for nothing. I state only official records made at National Laying Contests.

In Wyandottes—

\$8.69 worth of Eggs by BARON-ESS V, the 282-egg hen, at North American Contest, 1913-14. Four others laid 274, 271, 258 and 252 eggs. The five laid 1337 eggs, an average of 267, or \$8.21 per hen.

I have a flock of 27 Hens that gave net profit per hen of \$4.67. These are the three Contest Pens I bought of Barron, and which he had at Pennsylvania, Connecticut and Missouri. All my Wyandottes are bred from these.

In Leghorns—

I am breeding the Highest Pedigree Cockerels in the World, out of the 288-Hen, winner at Newport, Eng. This affords new Winning blood for the Barron breeder. Others, 284, 256, 253, etc.

In Buff Rocks—

280, 265, 263, 240, etc. I guarantee all contest birds.

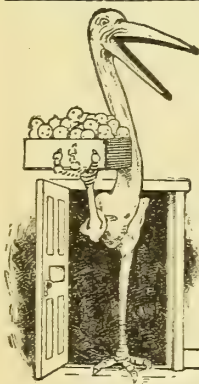
All Breeders tested by Storr's College. Free of white diarrhoea.

SPECIAL REDUCTION

May and June on pedigree chicks, also on eggs. Take advantage of this by ordering early. Half grown stock half price July and August.

MORRIS FARM

R. 4 Bridgeport, Conn.



CHICKS

The Kind You Want
Tested Layers: Good,
Sturdy, Pure Blood
Stock. Popular strains.

S. C. Brown, White and
Buff Leghorns, Barred
and White Rocks, Buff
and White Orpingtons,
R. C. and S. C. R. I.
Reds, W. Wyandottes.

You take no risk. We
guarantee safe delivery.
If the Express Company
abuses them we will re-
place them free of cost.
Send for catalog. It is
free.

TIFFIN POULTRY FARMS &
HATCHERY, Dep. A, Tiffin, O.

White Plymouth Rocks



Exhibition Tamworth Swine,
St. Bernards, Line Bred White
Persian and Blue Persian Cats.

"Bella Vista" White Rocks
won the Zenoleum trophy at
the 1915 Palace show, for the
greatest number of points on
any one breed.

I am entirely out of surplus
stock and eggs; nothing for
sale except very young stock. Naturally I have
nothing but the best left, which is not for sale, but
I must keep Bella Vista Farm White Rocks before
the public. "Whitened on Blue Grass Range"

BELLA VISTA FARM, Lewes P. Doerhoefer, Prop.
Department A ANCHORAGE, KY.

will kill the tree in a few years. They have done great damage, especially in the eastern states. The beetles are about three-eighths of an inch long, dull yellow in color with a black stripe on each wing. They emerge about the time the leaves appear and feed upon them, eating irregular holes. The leaves turn brown and curl. The larvae crawl down the trunks in July and change to yellow pupae in the ground near the base of the tree. By the end of July the second crop of beetles are out and at work. The control of this beetle is by spraying the foliage when the beetle begins to feed. Be sure that the spray hits the underside of the leaves, for it is there the beetle works. Use one and one-half pounds of powdered arsenate of lead to fifty gallons of water.

* * *

I want to repeat what I said last season: Do not destroy the ladybird beetles. Last spring and summer I received several of these beetles, some being sent by persons making inquiry as to what they were, and telling me they were injuring their trees and vines. There are several kinds of ladybird beetles, one having nine red spots on its black back, another but two, while a third has thirteen black spots on its orange-colored wing-covers, and two white dashes on the back of its neck. The beetles feed on plant lice and scale insects and *should never be killed*. They keep in check many insects which would otherwise do much damage.

* * *

In answer to E. H. White, Vermont: I think you will make a mistake if your purchase a dusting spray outfit. There are a number of such machines on the market, and some of them doing fairly good work. However, I am sure you will be better off if you stick to the liquid spray outfit. It is true that the work of spraying by the dust method is more quickly accomplished. It is also true that it costs more per tree for materials when dusting. You will make no mistake to be guided by the experiences and findings of the vast majority of successful fruit growers and invest in a liquid spray outfit. Mr. White also asks if it would be advisable to make his new apple tree planting of twenty acres largely of McIntosh Red. Those who have read this department in the past know how enthusiastic I am regarding the planting of this apple in Vermont. I would make this new planting two-thirds this variety were I in Mr. White's place. This beautiful and high quality apple is grown to perfection in Vermont, and sells at very high prices in New York and Boston markets. A twenty acre orchard of one-third Baldwin and two-thirds McIntosh Red would be a very valuable one.

* * *

In answer to P. E. Curtis, Pennsylvania: 1. Stayman Winesap is proving to be a very profitable apple for the more elevated sections of your state. You can plant it with assurance of satisfactory returns. 2. Red Cross and Diploma currant are the best market varie-

Don't Read This



Fourth Cock, Boston, 1916.
S. C. White Leghorns

White Leghorns White Wyandottes

You surely need some good
stock, eggs or chicks.

ALL WE ASK is that you place some of your orders with us so that you may compare the results of our stock with that of others. You will then know better where to come in future. We challenge any poultry man or breeder to give better quality for same money than we can.

WHY? Because we are breeding poultry as a hobby rather than as a business proposition. When we offer stock for sale we offer it right, because we wish to dispose of it. We don't buy to sell, but we can offer you attractive and reasonable prices on stock, eggs and chicks from quality breeders that are being bred and handled right.

YOU CAN do no better than give us a trial, for we are willing to back all our claims. TRY US.

H. P. McKean, Jr.

Willow Tree Poultry Farm
BEVERLY FARMS, MASS.



Licecil
Kills Lice

No Handling
Fowls

An Iowa customer says: "LICECIL is the best lice exterminator I ever used and I have used many. It is a chicken saver, money saver, labor saver. It is absolutely O. K." —J. E. Morehead.

The heavy loss from lice makes some preventive measures necessary. The value of LICECIL as a time and labor saver is well known to the people who have given it a trial. The free illustrated circular "Seeing Is Believing" tells why and how LICECIL saves chickens, money and labor.

Your own best interests and the success others are having will lead you to order LICECIL and learn how others are doing it.

Bottle 50c, 3 for \$1.25, Postpaid

METZGER MFG. CO.

Box 35 Quincy, Illinois

IMPERIAL BUFF WYANDOTTES

Pens headed by Chicago and Indianapolis, first prize winners. Mating list free.

W. F. SCHULTZ, Box 97, CUYAHOGA FALLS, O.

Astle's Quality Buff Rocks

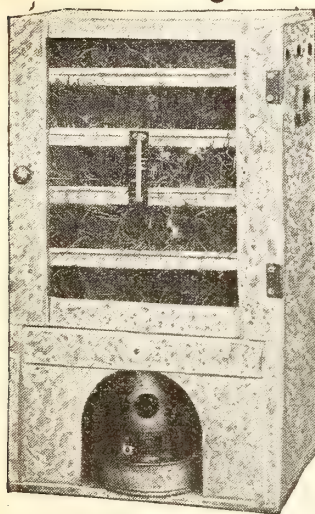
Chicago and State Show Winners. Excellent laying strain. Write for mating list. Eggs half price after May 15th. Mention Am. Poultry Journal.

Milan C. Astle Box A Mokena, Illinois

The Queen Gets The Chicks

Producing large hatches of strong, lively chicks, able to live through the uncertain period of the first few weeks and develop into vigorous fowls it pays to feed and raise. Many farm folks tell us that the Queen is exceptional in this respect. A perfect Regulator and the proper degree of moisture required are two of the advantages of the Queen. Not a cheap incubator, but cheap in the long run. QUEEN INCUBATOR CO., 105 Bryan Ave., Lincoln, Neb.

BERRY'S QUICK ACTION GRAIN SPROUTER



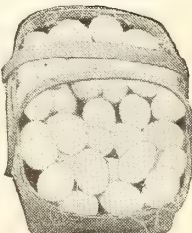
SPRING CONDITIONS IN WINTER AND FEED TEN CENTS PER BUSHEL MAKE BIG STEADY INCOME

Here is what it will do—Results in a nutshell:

- Diminishes cost of feed 50 to 100%
- Increases egg production 50 to 100%
- Starts pullets to lay early
- Fattens poultry 50% cheaper and quicker
- Raises baby chicks easier and better
- Increases the profits 50 to 100%

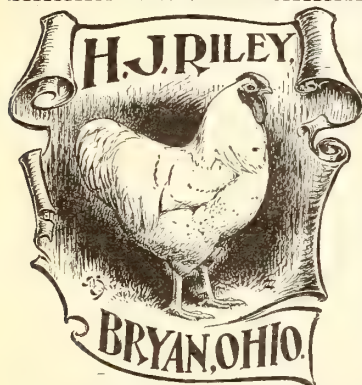
"BERRY'S QUICK ACTION" is undoubtedly the leader. Perfected from actual experience and careful tests and comparisons on our practical poultry farm. Made of galvanized rust-proof steel. Indestructible, safe, quick, easy to operate, low in cost. You are Protected by our Absolute Ironclad Guarantee. "BERRY'S QUICK ACTION" will do what we claim or your money back. Sold on the Golden Rule Plan—A SQUARE DEAL TO ALL.

Don't buy a sprouter until you have read all about the "QUICK ACTION." Send today for FREE book on winter eggs and about our wonderful sprouter, incubator, supplies and pure-bred poultry. Address



Results of Berry's Quick Action Sprouter

BERRY'S POULTRY FARM
Box 409 CLARINDA, IOWA



RILEY'S White Wyandottes May Chicks Are Best

There is still plenty of time for you to hatch winners. The mild, even temperature of May and June makes it easy to raise chicks, and they develop rapidly and mature quickly. Why not choose this month to become acquainted with Riley's White Wyandottes? I guarantee a good hatch. Write for mating list, it gives the complete story of my winnings, together with unretouched pictures of my Chicago, Toledo and Ohio State Fair winners. Eggs from pens headed by my winners at \$3.00 and \$5.00 per 15 eggs. Baby Chicks 40c and 65c each. After May 20th, balance of season, eggs half price.

H. J. RILEY

BOX A

BRYAN, OHIO

Houstonia Poultry Farm

Red Sussex



Light Sussex

HOUSTONIA STRAIN

"The colder the day the better they lay."

Eggs for hatching at half price for May delivery. Reduced prices on breeders for immediate delivery; must have room for growing stock. Write for prices and mating list.

HOUSTON & HOFIUS, Dept. A, SOUTH CHARLESTON, OHIO



White Wyandotte Farms

have furnished first prize winners at some of the best shows in America this season, and wish to extend to you our services and experience as expert breeders of White Wyandottes for the past 23 years. Stock and eggs of the highest quality for sale at reduced prices.

OSCAR L. BOCK, Prop.

Box 1

COUNCIL BLUFFS, IOWA

BLACK LANGSHANS

5th on hens; 1st, 2nd and 4th on cockerels; 2nd and 4th on cocks; 1st, 3rd, 4th and 5th on pullets; 1st and 2nd pens. Also, (The National Langshan Club Show), with an special. It will pay you to get my strain. My customers are winning with my strain everywhere, and I will continue to take care of you. Was never better prepared in numbers and quality than right now. They will give you eggs, prizes and satisfaction. Eggs from choicest New York winners, also from utility flocks. Mating list and catalog free. Satisfaction always.

M. S. BARKER, R. F. D. 1, THORNTOWN, IND.

MORSE'S WH. LEGHORNS

Laid 187 eggs per hen last year in flocks of 1000 each and have been bred for eggs for years. They also won the blue wherever shown. Eggs, chicks and stock at a low price. Free illustrated catalog.

MORSE'S WHITE LEGHORN FARM, Belding, Mich.

"America's Best" Light Brahmas

Eggs one-half price after May first, or \$5 for 15.

BALCH & BROWN

MANCHESTER, CONN.

ties. 3. I cannot tell you what varieties of strawberries are best suited for your planting. Consult your State Station folks. 4. Yes, you can raise a crop of potatoes between the rows of your newly set apple trees, *provided* you get the potatoes off the ground so you can sow a cover crop in the orchard not later than July 15. 5. The Concord, Worden and Moore's Early will give you the most satisfactory returns in the vineyard. 6. I do not know the Clay pear. Never heard of it. Be very careful in deciding upon what varieties of pears to plant. Take this matter up with your State Station authorities. Yes, I would plant two or three of the Lincoln variety. Out here on the prairies it withstands the extremely cold winters, and does not blight even in the most blight-producing weather. But it has not been tried out to any great extent in your state, and it would be unwise for you to plant more than a very few trees of this variety. 7. You are mistaken as to the potato yield in this state. I know of no commercial grower who gets 400 bushels per acre yield. There are lots of fairy tales told about the "golden west." We are getting along pretty well out here, but the land agents are somewhat economical of the truth in their advertising statements.

* * *

As usual the English sparrows have cut down my plum crop more than one-half. Every winter when the ground is covered with snow these birds feed upon the plum buds. It is impossible to fight against the birds, and I suppose I shall have to continue to see them rob me of many bushels of plums each season. I have been trying to figure out some material to spray on these trees which would be distasteful to the sparrow. Wish I could.

* * *

I have a long letter from O. J. Taylor of South Dakota, in which he asks me whether or not he could make the growing of onion sets profitable on his Clay County farm. Having asked the question, Mr. Taylor proceeds to answer it in the affirmative to his own satisfaction. Notwithstanding Mr. Taylor's findings, I am of the opinion that unless he goes into the business on a very large acreage, he will not find his dream coming true. The onion set business is in the hands of a few growers who are favorably located as to land and climate. It is a business which calls for large capital and experience, and grower must be located where he can secure an abundance of cheap labor. I would advise Mr. Taylor to give up the idea of going into this business.

* * *

As I write these lines, a gentle warm rain is falling and the grass on the lawn and the brave plants which have come out of the ground thus early are laughing in glee. This rain will put the ground in splendid shape for the planting of garden seeds. And what fun it is!

Tycos INCUBATOR THERMOMETERS

"Always tell the truth." Always found in the best incubators. Insist that your new machine be thus equipped and put Tycos in your old ones, too. Price 75c each, at your dealers or from us, postpaid. Send for free booklet, "Thermometer Facts Worth Knowing."

Taylor Instrument Companies 100 Ames St. Rochester, N.Y.

Mention American Poultry Journal when writing to advertisers.

Readers Experience Department



Lousy Flocks Should Not Be Tolerated.

EVERYONE who has ever raised chickens knows what trouble lice cause about hatching time. Some of the JOURNAL readers may even be old enough to recall that lice used to infest human beings a good many years ago, especially those who were too indifferent, lazy or dirty to keep their heads clean. These "head lice," as they were called, were circulated in schools thru careless parents and infected children and thus scattered thruout the school. The careful mothers then had to comb and clean and watch for lice the rest of the school year—all because of the neglect of a few careless mothers.

Think what work and worry it made. People never thought much about it then, or at least if they did, they probably thought lice were something humans had to contend with like "chills and fever!"

Well, that is just the way some think about lice among chickens. They think the two are inseparable—and as a general thing, I should say they seem to be. Sifting the matter down, however, everybody ought to realize that lice are a wholly unnecessary accompaniment to poultry raising. It is perfectly plain that every louse has some connection with some other louse, just as every chicken

has a connection or association with some other chicken by means of eggs. Now if you kill all your chickens, it naturally follows that you have none, and never will, till you buy, borrow, or some one brings you some. It's exactly the same way with chicken lice or mites.

You need not have a louse or mite in your poultry houses or pestering the life out of your poultry if you do not want them and are willing to work hard to rid your poultry of them. But in this, as in everything else, eternal vigilance is the price you must pay. It is worth it.

The first proposition is that of killing the lice, for they must every last one be killed, and their nests destroyed, and then you will not have any more until you bring them into your flock by means of eggs or stock. If you are bothered with the little mites or lice that accumulate under the perches or nests, they may be killed merely by touching them with anyone of a number of different preparations. Kerosene, gasolene, crude oil, and many kinds of advertised liquid preparations, are all good and will do the work—but to touch every louse and mite is the trick.

To begin with, clean the poultry house of all droppings and trash, not disturbing where the mites or lice are hidden any more than can be helped, so none will be knocked off and left to begin a

new race of their filthy kind. Carry out the nests as gently as possible and empty the contents on the ground and burn immediately. Have handy a big kettle of boiling water and scald thoroly both the inside and outside of the nest boxes, using as much as a gallon on each nest. Do not leave a dry splinter anywhere about it. After it dries off awhile, look it over carefully to see if there is any sign of crawling life about it, especially about the cracks. If any appear knock the boards a little apart and scald again. If you have a kettle large enough, just dip the nest into the kettle of scalding water.

Next attack the perches. Never use perches nailed tightly down, but if you now have that kind, knock them loose as gently as possible. Place them out on the ground and scald thoroly, turning over and over. Then go inside and scald the droppings boards and the frame they rest on. Make a very thoro job of it. Hot water is cheap, and if you are bent on annihilation of the superfluous hen louse, use it freely—and be sure it is hot.

Now that the furniture is freed of vermin, begin on the house. Cover the sides, ceiling and the floor in every part with whitewash. Take my word for it now, your poultry house and fixtures are clean. Then take each and every bird which is to occupy this tidy apartment.



"SUNLIGHT" POULTRY FARM S.C.W. LEGHORNS

Greatest Known Layers. (Young Strain) PREPAREDNESS

This is the one big question of the present day that is being talked about everywhere in this big country of ours. While the big men of our nation are discussing this question, don't you think it is time for you to prepare for next winter, if you have not already done so, by placing your order for eggs and baby chicks right now? April and May are the ideal months of the year to get out chicks for winter layers. In placing your order with me for eggs and chicks, you are sure of getting them from mature birds that are bred to lay, raised properly, housed in open front houses and on free range the entire year, thus insuring you chicks that live and grow and mature into birds worth while. My birds are strictly utility fowls, altho a good many of my birds go into the shows and win. All eggs and chicks are produced from birds here on the farm and hatched in Candee Mammoth Incubators. Prices are as follows:

Eggs for Hatching

1 Setting of 15 Eggs.....	\$1.50
1 Setting of 50 Eggs.....	3.50
100 to 500; per 100.....	6.50
500 to 1000; per 100.....	6.00
1000 to 5000; per 100.....	5.50
5000 or more; per 100.....	5.00

Baby Chicks

25 to 50 Chicks.....	\$.14
50 to 100 Chicks.....	.13
100 to 500 Chicks.....	.12
500 to 1000 Chicks.....	.11½
1000 to 5000 Chicks.....	.11
5000 or more Chicks.....	.10

Order direct from this adv. and save time. 80% fertility guaranteed on all eggs. Full count and safe arrival guaranteed on Baby Chicks. Orders will be booked for future delivery on receipt of one-fourth the purchase price; the balance to be sent before order is shipped. Stock for sale at all times. Let me have your order, it will receive my careful attention, prompt shipment and your approval. Remember, The Sweetness of Low Prices never equals the Bitterness of Poor Quality. Write your wants. Catalog free.

SUNLIGHT POULTRY FARM, E. N. Lemon, Owner, Lynchburg, Ohio

Baby Chicks



At reduced prices for May of four varieties from free range utility stock.

	Per 25	Per 50	Per 100
B. P. Rocks	\$2.75	\$5.50	\$10.00
S. C. White Leghorns ..	2.25	4.25	8.00
S. C. Brown Leghorns ..	2.25	4.25	8.00
R. C. Brown Leghorns ..	2.25	4.25	8.00
Broiler Chicks	2.00	3.75	7.00

Send order today with certified check or money order and write for free catalog and mention American Poultry Journal.

MISS BARBARA C. BLUM
Dept. C New Washington, Ohio

SCHABELL'S

White Orpingtons

won 1st prize pen at Chicago, January, 1916; 1st, 2nd and best pullet at Melrose Park; 1st young pen and 1st, 2nd, 3rd, 4th and 5th at South Shore Show. Hatching eggs, pullets and hens. Mating list free.

JOHN SCHABELL, 3331 Cuyler Ave., Chicago, Ill.

Automatic Trap Nests

are what you want to help you line up your poultry yards and to get your business on a paying basis. Also dry mash feeders that feed from both sides for young and old stock. Get my circular.

THE AUTOMATIC TRAP NEST
& SUPPLY COMPANY

475 Wisconsin Street Kenosha, Wis.



Write for special prices on eggs and chicks for May and June delivery.

N. V. FOGG
Box R, Mt. Sterling, Ky.

Golden Wyandottes

Breeders for sale. Eggs \$5.00 per 15 for balance of season. Winners of champion male and other prizes at World's Fair, 1915. Write for circular.

J. S. PENNINGTON Box A, Plainfield, Ill.

DEEM'S ARISTOCRAT BUCKEYES

After April 15th, 1916

Pen No. 1 : : 15 eggs, \$5.00
Pen No. 2 : : 15 eggs, \$3.00

BUCKEYE POULTRY YARDS, Eaton, Ohio

PARTRIDGE ROCKS

Low prices on our breeders after May 15.
No Sunday Business

Meadowlawn Poultry Yards, Dept. C. D., Sand Creek, Mich.

LEE'S COLUMBIAN WYANDOTTES
Eggs from Chicago, St. Louis, Memphis and San Francisco winners at reasonable prices. Write for free booklet and mating list.

LEO A. LEE, 5626 Wilson Ave., CHICAGO, ILL.

CHOICE BUFF PLYMOUTH ROCK EGGS
from a well established breed; none better. Start right by getting the best. Eggs, \$3.00 per 15, \$5.00 per 30.

R. W. WARD Normal, Illinois

WHITE WYANDOTTES

Eggs for hatching from 6 grand pens. Silver cup and blue ribbon winners. \$2.00 per 15. Write for catalog. FRED A. RUI, Crown Point, Ind.

and dust thoroly and individually, with Persian insect powder or any good louse powder, before they are allowed to again take up their quarters within. After cleaning the house you may think yourself tired and decide to allow the dusting of the birds to go over for another day, but if that idea settles down upon you, halt! Think it over. It is not of much avail to fumigate the room of a patient with a contagious disease while he is still suffering with the disease. Cure him first, then fumigate and he will not again contaminate the room.

Now if the foregoing program has been carefully carried out, it is to be hoped that the lice are all killed off and the dead ones won't bother you much and, what is more important, your poultry. But if there happens to be a few scattering ones left on the fowls or in any crevice or a fresh supply hatch out on your birds they will show themselves within a few days, so as you value all your labor to be rid of hen lice, don't give up now. Scald the perches and nests again. Dust the birds again and again and I will guarantee that you will get value for this cleaning up campaign, equal to, if not exceeding, anything you ever have done with your poultry. Keep up the work until you are sure your fowls are free from the pest and examine them often to keep them so.

In getting new stock, bear in mind that your flock is free from pestiferous lice and you have no surety that any other flock is so blessed. Dust well every new comer before given admission to your poultry quarters. Make it your business to know for a certainty that each newly acquired specimen is absolutely free from vermin. I give this advice from having suffered because of not heeding it. I infected my whole flock with lice by introducing a newly bought specimen into the flock and the work of getting rid of that newly acquired crop of lice was sufficiently arduous to impress the lesson indelibly upon my sense of caution.

An important thing to remember in the "no lice" campaign is that every coop used for broodies, brooding or rearing chicks, cockerel pens, and all manner of equipment, if ever previously used for poultry must be put thru the same process as your poultry house, roosts and perches. I would not trust a coop that had stood around for years in snow and wet and freezing weather without first scalding every nook and corner of it. Then I know it is thoroly cleaned and fit to be occupied. I have found old nests and coops that had not been in use for a long time that were infested with living lice—living in hopes, somebody would be fool enough to use them without a thoro cleaning, I suppose.

Once you get your plant free from lice do not go direct from another's poultry house or in handling his poultry to your own. There is grave danger of carrying even one louse with the "empire bug" in her bonnet, and the seeds of millions more of her kind ready to deposit in a foreign field that she might the better exploit her colonization ability.

To some, I suppose, the foregoing method of putting the hen louse to rout may sound quite like some work and too much trouble to be worth it. To such I would suggest that they put themselves in the place of the hen for a few minutes. Think of the broody; true to the mother instinct, sitting thru the untold torture of being eaten to death by these miserable, filthy, unnecessary parasites.

Big Reduction

in prices on

LEGHORN CHICKS

shipped from

The Lord Farms

(The Everlay Farm)

JUNE 1st PRICES

25 to 50 chicks.....	13c
50 to 100 chicks.....	12c
100 to 500 chicks.....	11c
500 to 1000 chicks.....	10½c
1000 to 2000 chicks.....	10c
2000 to 5000 chicks.....	9½c
5000 or more chicks.....	9c

You are practically as early this year hatching chicks in June as any other year in May. On best advices all over the country, east of the Mississippi, we believe there are not more than one-half to two-thirds of the chicks hatched as in former years. There was not over 25% of the chicks hatched this year in February and March as in former years, on account of the extreme cold weather. April hatches also were way behind. Chicks are bound to be in demand very late this season, and if you want winter layers, by all means buy W. Leghorns, the only breed that will mature before the cold weather. We shall hatch

12,000 Chicks a Week

during the month of June. Order now at our big reduced prices. Send for our 104-page catalog, the finest W. Leghorn catalog published this year.

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THE POULTRY BAND



that wears and is always easy to read. All sizes from fifteen-sixteenth of an inch to three and one-half inches. Aluminum and celluloid. Send for free catalogue and sample.

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Hundreds have done it. Be rid of the oil, smoke, dirt, danger and worry. We furnish you the electric heating equipment. You can install it. Send for circular. Electric Specialty Co., 28 Richards St., Salt Lake City.

PALMER'S BARRED ROCKS

not only one of the best but one of the oldest strains in America. Eggs for sale from our best matings. Catalogue free.

D. F. Palmer & Son Box 35 Yorkville, Ill.

After you think it over for awhile, if you do not have the desire to make a clean sweep of all hen lice and mites from your place, you are not fit to raise poultry and you better quit it.

When poultry is free from lice, they do not require as much food, they are sprightlier, more active, lay better, and I know they must feel better.

Hutsonville, Ill. ADALINE NEWLIN.

Manure, a Profit for the Back Lot Poultry Keeper?

What do you do as a back lot poultry keeper with the manure? Maybe you have a small garden that you use it on; but whatever you do, don't let this item be a waste. Turn it into profit.

I have a friend, a back lot poultryman, who keeps about forty hens. He swaps the droppings to a truck farmer for lettuce heads that have gone to seed. About twice a week when this truck farmer sends his wagon to town, he sends a bunch of lettuce heads to this poultry man, and when a load of manure has accumulated in the bin, his wagon comes by and takes it to the farm.

As for myself, I swap the droppings to a florist. When a load of manure accumulates he sends and gets it. In return when his laborers are cleaning out the flower benches in his hot houses, he saves all the chick weed and tender grasses, which he drops by my home when he sends his truck out to deliver flowers. My, but you should see those chicks go for that chick weed and grass, which are very tender, having been grown in the hot houses and is a very tempting morsel in winter and summer.

Watch the small items in the poultry yard like this manure droppings. Don't allow any waste and loss as far as possible.

Augusta, Ga. LOUIS C. GERCKE.

Indian Runners.

With the entering of the three varieties of Runner ducks into the Standard of Perfection which was passed upon by the American Poultry Association last year, it seems as tho the battle which has encircled this breed of ducks for many years should be at a climax.

There is no doubt that the Runner is an egg machine and well worthy all the interest taken in them by many breeders.

From Chick to Champion



In every stage in the life of your birds they need Meat and Bone in their daily ration. These materials must be supplied for rapid, healthy, profitable gains and economical egg production.

Swift's Meat Scraps

is the cheapest, cleanest, concentrated feed available. Made from select, fresh packing house residues, handled in the most sanitary manner in Plants under United States Government Inspection.

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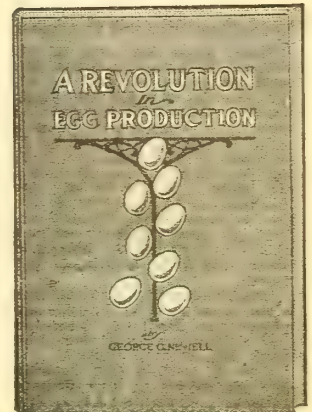
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George G. Newell's new book, "A Revolution in Egg Production" tells you how to hit the bull's-eye of *Results*. It shows a method that will



Increase

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100%



during the molting season and in the winter when you need it most.

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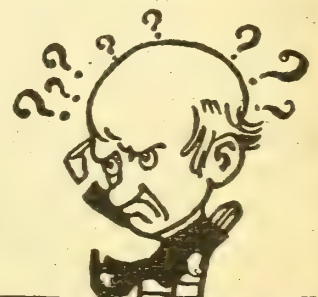
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We helped him off the fence.

Some time ago one of the largest exhibitors in Massachusetts wrote us, stating he was "on the fence," for his young "Reds" had not turned out well. He wanted a number of birds to put new blood in his flock and at the same time birds that would win blue ribbons in any show. Suffice to say that this breeder is a consistent winner at New York, Boston and Chicago, and his flock of Reds is "teeming" with Nonpareil blood, for he is a regular customer.

Then there was a Massachusetts breeder who bought one young bird from us. This bird won a blue ribbon at both New York and Boston shows.

One of Ohio's big breeders and exhibitor at the Chicago Coliseum, Cleveland, etc., bought three birds from us. One of these birds, a male, has swept everything before him.

This tells part of the story of why we are steadily climbing, yet it does not begin to tell of all the "big show" winners we have furnished, nor does it tell of the winners furnished for smaller shows, and our personal exhibits and wins made at New York, Boston, etc. Breeders who recognize the type of Red that wins at Chicago, New York or Boston, buy

Nonpareil Strain

S. C. R. I. REDS

They win for others—they will win for you. We have prepared a little booklet, which tells the story—it is free. Now, while you have the time, write for it.

S. G. McLEAN

The man who breeds the Red winners.
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WARD'S Dark Cornish

(Exhibited as Ward & Chilver.) In the hottest Cornish competition of the year. Our crashing win at the Palace, New York, last December, is history. Full details in 1916 Price List—it's free. But now it's EGGS, ain't it? We have them. Extra fine, \$10.00 per 15; fine, \$5.00 per 15. Safe arrival guaranteed. Mention American Poultry Journal.

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Single Comb White Leghorns and W. F. Black Spanish

EGGS FOR HATCHING

Leghorn Eggs . . . \$1.00 to \$5.00 for 15
Spanish Eggs \$2.00 for 15

Mating List Free.

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Examine

those hens that are not doing well, send for a box of **Louse Remedy** of the White City Egg Farm, Seville, Ohio, thereby prevent loss and bring profit. Price, postpaid, 50 cts.

COLUMBIAN WYANDOTTES

s for Hatching at reasonable prices. Satisfaction guaranteed. Mention Am. Poultry Journal.

HUR MERRELL

SOLON MILLS, ILL.

In 1909, the discussion about changing the Standard of the Indian Runner from the dark variety to the light fawn was at its height and the following year the Fawn was admitted as the ideal Runner for the American Standard. Thru the efforts of the Cumberland Penciled and the White Runner clubs, both these varieties were added to the Standard in 1915, the White variety being practically a new one. Each one of the three varieties has its own followers, but for egg production there is little difference, as they are all remarkable layers. A pure bred White Runner never lays anything but a fine white egg.

The Cumberland Runner club claims that the variety they stand for lays only pure white eggs, but there are many penciled ducks that lay a tinted egg, the same as the Fawn and White varieties. However, tinted eggs are getting fewer each year and there are strains of the Fawn Runner that lay only pure white eggs.

The Fawn Runner usually have the largest class in the show room and seem to attract the most attention. They are a study of beautiful shades and graceful curves, erect carriage and long flat heads. There is no difference in a Runner duck egg as far as food value goes, whether it is green tinted or pure white, or which variety of Runners lays the egg. The Texas Experimental Station, after a careful analysis of the Runner egg, announces that it has more nutriment than any other egg and for that reason they are highly recommended for invalids during convalescence. The Cornell Station has recently reported the same analysis. The flavor of a Runner egg is mild and delicious and there is always a ready market for them.

The flesh of the Runner is never stringy, but is tender, with a fine flavor. The skin is yellow, which adds much to the demand. As a table delicacy, they cannot be surpassed. Runners average a goodly number of eggs per year and as they are large in size, it is easy to see the advantage gained in breeding them, from a commercial standpoint.

Breeders should not be forced for eggs during the winter. On most duck farms the breeders are not fed for eggs until the breeding season begins in March. Careful feeding is one of the main essentials either for egg production or strong healthy ducklings. The straw in the litter should be shaken up each day and sufficient warm water supplied to immerse the head when the natural water supply is frozen. Left over mashers should be removed before beginning to sour and every effort made to keep the pens wholesome.

The females weigh four pounds, the males four and one-half. It is not necessary to supply a swimming pool, but they require sufficient water to bathe their heads and clean their nostrils which become stuffed with food. They should be mated one drake with five ducks.

Runners are non-sitters and therefore cannot be depended upon to hatch their own eggs. They may be hatched with either hens or incubators, requiring twenty-eight days to hatch. The ducklings should not be fed for forty-eight hours after hatching. The first feed should consist of bread crumbs moistened with milk and squeezed dry.

\$2.50 for 25 to 50 CHICK HOVER

Made of Galvanized Steel. Can be used in any box. Safe and durable. Hot water heat. All complete. Incubator book free. We make 73 different articles.

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You Can Get RESULTS Like Elmer Green's

"I have set 1760 eggs and hatched out 1538 strong, healthy chicks and put them in the Candee hot water brooding system and up until date have only lost eight chicks out of the 1538 and they range from the age of one week to six weeks old.

"Believe me you cannot beat the Candee Incubator and Brooding System for successful poultry raising.

"Would be very glad to hear from you in regard to your opinion of this hatching."

ELMER GREEN, Paynes Estate,
West Park, N. Y., March 25, 1916.

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Baby Chicks
and
Eggs
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Hatching

Barred, Buff, White Rocks, Reds, Wyandottes, Orpingtons, Leghorns. Record, 200 to 249 eggs a year; best in quality; hardest Vermont raised. Write for new chick circular. Males and females for sale.

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White Indian Runner DUCKS

The Sensation of the water fowl department of the Madison Square Garden show. Their style and carriage is perfection. Here they won cock 1-3, hen 1-2, cockerel 1-2, pullet 1-2. All specials. Write us your wants. Satisfaction assured—none better—

Winning Wherever Shown.

E. G. CURTIS Box A ATSION, N. J.

White Cornish
MOUNTSVILLE FARMS. - MOUNTVILLE, VA.
(See classified ad on another page)

This may be given every two hours for the first few days. Then add some white middlings or low grade flour, making a sticky mash. Gradually leave out the bread and add corn meal, a little beef scrap and clean coarse sand.

When three weeks old give the following formula four times daily: 1 measure corn meal, 1 measure wheat bran, 1 measure white middlings or flour, 2 measures alfalfa, $\frac{1}{2}$ measure beef scrap, $\frac{1}{4}$ measure sand. If the ducklings have plenty of grass, reduce the alfalfa to one measure. Great care should be taken to prevent duckling from going in the water to bathe, as the result is nearly always fatal.

We make a shallow drinking fountain out of a tin can with a nail hole near the top (about one-half inch from the top), fill the can with water, place a small pan two inches deep over the opening and turn upside down. The youngsters can get enough water to drink from this receptacle, but cannot get in the water. It is far better to water the young ducklings sparingly than to allow them to get wet. In hot weather shade should be provided.

After the ducklings are six weeks old, they should have plenty of water to immerse their heads; grit, charcoal, oyster shell and the beef scrap should be increased and a little salt added to their ration.

Avoid changing the ducks about. It stops them from laying to change from one shelter to another, but nothing stops their laying so quickly as frightening them. The egg yield is always small where the birds are being caught, and looked over, and mated, first here and then there.

The housing of ducks need not be expensive. A piano box on its side may be used to shelter twelve ducks. They should be kept dry and clean. They begin laying at the age of six months. A good feeding formula consists of 1 measure wheat bran, 1 measure corn meal, 1 measure middlings of flour, $1\frac{1}{2}$ measures beef scrap, 1 measure alfalfa and a little salt, mixed together with warm water, if the weather is cold. Beef scrap is high in protein and the amount given should be governed accordingly. If the ducks are not laying, it is safe to add more to the above ration and cut it down after they start laying.

To those who are just beginning in the Runner industry, let me say, it is better to start right with good healthy stock even tho they be few in numbers than to try it out with inferior stock. It is just as cheap to feed a good duck as it is to feed a poor one.

Morristown, N. J. EMIL A. GAEBEL.

The Hen in the Southland.

Nine-tenths of the articles in the poultry magazines and papers having a poultry section which give advice to beginners, also the trials and experiences of others, are all written with a few exceptions by Northern breeders, and while they have a bearing on the subject in a general way, they do not fit our conditions at all; likewise, the quality of the different breeds are unknown to those who have never visited our Southland.

I know of more than one case where judges of renown, while on judging trips South, have pleaded with many breeders to exhibit their birds at the larger shows up North. They even offered to take the birds a month before the shows, train and personally see that the birds are well taken care of; but there are many



BABY CHICKS

OUR 12TH SEASON SHIPPING CHICKS

WE furnish chicks hatched from the best Utility and Exhibition Stock. Our stock all have free range, thus insuring you good strong chicks.

Now is the time to place your orders for March and April deliveries.

	Per 25	Per 50	Per 100
S. C. W. Leghorns.....	\$2.75	\$5.00	\$10.00
S. C. B. Leghorns.....	2.50	5.00	10.00
B. P. Rocks.....	3.00	5.50	11.00
R. C. I. Reds.....	3.25	6.50	13.00
Broiler Chicks.....	2.00	4.00	8.00

Partridge P. Rocks, 50c each; can furnish only a limited number of this variety.

We also have a coal burning Colony Brooder that will successfully brood your chicks. Be sure to get our FREE illustrated catalog and price list.

20th Century Hatchery, New Washington, O.
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MAPLESIDE BRED-TO-LAY

Barred Plymouth Rocks

ACKNOWLEDGE NO SUPERIORS AS LAYERS

Fully 54% of all 1914 Pullets on hand Jan 8, 1916, averaged 202 eggs each in one year

Eggs for Hatching—10c each; \$4.00 per 50; \$7.50 per 100. From Selected Matings—\$3.00 per dozen. DAY-OLD CHICKS.

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CHICKS 400,000 FOR 1916

From winners at the largest shows and heavy layers for several generations. Ten times more fresh air goes through our incubators than any other system giving you greatest vitality in chicks. S. C. & R. C. White Leghorns & S. C. Brown Leghorns \$10 per 100; \$5.50 per 50; \$3 per 25. Barred P. Rocks, White P. Rocks, S. C. & R. C. Black Minorcas, White Wyandottes, S. C. & R. C. Reds, S. C. Anconas \$12.50 per 100; \$6.50 per 50; \$3.50 per 25. Our ninth season. Safe arrival and satisfaction guaranteed. **Cleveland Hatchery, 7916-18 West Madison Avenue - Cleveland, Ohio.**



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Here is one Incubator Catalog you can't afford to overlook. No matter how many others you write for, be sure to get this one, too. It will show you why some incubators spoil half the eggs or more—why others don't raise strong, healthy chicks. It also explains just why the famous

PRAIRIE STATE INCUBATORS

"Hatch the Most Chicks That Live"

Tells all about the wonderful moistened Sand Tray—the Eddy Current Ventilating System—and other exclusive features which have made Prairie State machines famous the world over.

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Write for Free Catalog

Speckled Conrad's Sussex Red

These grand winter layers are producing eggs for setting now. Try an early hatch.
E. K. CONRAD SX Street, Hackensack, N. J.

Speckled Sussex

Are acknowledged the fastest growing breed in existence; are extra prolific layers, especially during the Winter months, and the coming Show Fowl of America

PEN 1—Headed by 1st cockerel at Quincy, a son of last season's Crystal Palace champion bird; weight, 9 lbs. Mates are first pullet at Quincy and daughters of Madison Square and Buffalo winners.

PEN 2—Equally good, containing daughters of imported Crystal Palace winner and Madison Square winners.

PEN 3—Cockerel same breeding as male in Pen 1. Mated to high class females.

CHAS. A. SIMMONDS

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EGGS

From pens 1 and 2, \$5.00 per 15

From pen 3.....3.00 per 15

My eggs are hatching better than 90%.

Mating List Free.

NOTHING JUST AS GOOD

Red Star Brand Fish Scrap

It is a necessity for success—aiding growth and development; its merits are far reaching.

FEED IT REGULARLY

Used with success by hundreds. It supplies all that poultry desires for best results. Catalogue on application. BEWARE OF IMITATIONS.

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BREEDERS White Leghorns BREEDERS

WE ARE IN EVERY SENSE BREEDERS.

WE ARE NOT A HATCHERY.

After years of careful study to perfect our stock we have accomplished our aim and today our birds are excelled by none for vigor and productiveness. Our own breeders possess the qualities to produce livable chicks and unsurpassed layers.

DAY-OLD CHICKS

EGGS FOR HATCHING

Write us and we will astonish you with the prices we quote considering the quality we offer. We guarantee the safe delivery of chicks, the fertility of our eggs and that both will be the product of our own breeders; and, furthermore, that all customers must be satisfied when dealing with us. Remember, if you order from us you receive the benefit of years of care and study given to perfect our stock. You will not receive hatchery stock. Send us your order early to insure delivery date. We guarantee to fill orders when wanted or to promptly return your money. Write for free booklet, describing our methods and stock.

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STOCKTON, NEW JERSEY

KELLER'S WYANDOTTES, SILVER, GOLDEN & WHITE

LINE BRED FOR 30 YEARS

One of the oldest strains in America. Winners of thousands of premiums at Madison Square Garden, Chicago, St. Louis, Buffalo, Cleveland, Cincinnati and Columbus during the past 28 years. They have the size, shape, color and narrow lacing that puts the Keller stamp on them. Choice stock to spare. If you wish to raise fine exhibition stock that are heavy layers as well, you will find the combination in this strain. Eggs from fine matings at \$3 and \$5 per setting; also fancy golden Sebright Bantams. Large circular.

IRA C. KELLER, Expert Judge

Brookside Stock Farm, Box 75, PROSPECT, OHIO

McClave's Prize Winning—

L. Brahmas, Barred Rocks, Wyandottes, Toulouse and Chinese Geese, Muscovy and Indian Runner Ducks

Three hundred selected birds for sale at reasonable prices. Big winners at the late Panama-Pacific, Chicago, Cleveland and other large shows. Sales Bulletin No. 60 free on application. Farm-grown, prize-quality. Prompt shipment. Satisfaction.

CHAS. McCLAVE, Box 24, New London, Ohio.

LANGE'S BUFF WYANDOTTES

The kind that Win, Lay and Pay. Out of 30 entries, at Michigan State Fair, Lansing and Detroit, Mich., they won 10 firsts, 6 seconds, 7 thirds, 2 fourths, 2 fifths, 4 specials and 2 silver cups. Cocks, Cockerels, Hens and Pullets for sale at low prices. Eggs, \$2.00 for 15, and \$5.00 for 45. Satisfaction guaranteed. **J. G. Lange, 1187 Scotten Ave., Detroit, Mich.**

White Wyandottes—Regal Strain

Also Young and McKinzie Australian Strains White Leghorns.

Day-old chicks. Eggs for Hatching. Write today.

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State Road

WHEATON, ILL.

100,000

S. C. WHITE LEGHORN Hatching Eggs

For 1916—Fertility Guaranteed 90 Per Cent

\$1.50 per 15 Eggs,

\$5.00 per 100 Eggs.

\$50.00 per 1000 Eggs.

Grandville, Mich.

Roberts Poultry Farm

drawbacks for the Southern breeder in exhibiting at the larger Northern shows. They have to send the birds a thousand to two thousand miles to the nearest big shows, in the coldest of weather, leaving a temperature of thirty-five to sixty degrees, for one of zero and under; running the risk of snow and rain storms and of losing some of their best birds. Then it breaks right into the middle of the breeding season, as the pens are generally mated up from the 15th of November to the 1st of December, because the poultry shows of the Fall Fairs have created a demand for "hatching eggs," and all the breeders like to get off a few early chicks in January. This, coupled with the fact that the average breeder cannot spare the time and expense in attending these shows and do not feel like sending birds into a colder climate without being along to attend to their comfort, makes it practically impossible for the Southern breeder to be an exhibitor at Northern shows.

HOUSING.

The type of house to use for the breeding pens is the open-front house, without either curtain at the front of the house, or in front of the roosts. The climatic conditions in the South do not demand curtains. The house should be free of draft, positively air tight, back and sides, but should be arranged with a board at the top of the back on hinges, so as to let down during the summer months, giving a circulation of air without a direct draft on the chicks. About as many poultry men face their houses east as they do south, the idea in facing the houses to the east in preference to the south is the fact that we have more hot weather than cold; in summer the houses facing east catch the early morning sun, while the fierce rays of midday and afternoon do not shine directly in the houses, thereby making it unbearable for the hens; but instead, the houses are shady and also furnish shade for a part of the runs. Some may claim that this works bad for the winter months, but when you take into consideration that the coldest part of the day with us is the early morning, the houses facing east catch all the morning sun, while in the afternoon the hens can keep warm by scratching in deep litter or seek the lower end of the run-ways where they can catch the rays of the sun. There are only a few rainy, cold days during the winter months when the hens do not have use of the run-ways.

HATCHING


February and March are the biggest hatching months, as birds hatched at this time make a good growth before the wet season sets in and attain their full growth and best condition in time for the early fall shows, which take place in October and November. Chicks hatched after April 1st do not attain the growth that they should for the fall shows, and the pullets as a rule do not begin to lay before January to February, while those hatched in February and March begin to lay as early as the latter part of August and September.

BROODING.

The brooding of chicks is best done without artificial heat, using fireless outdoor brooders. Care should be taken

Spray White Wash

Kant-Klog Sprayer
for disinfecting and white washing poultry houses—spraying vines, vegetables, etc. Write for catalog. Agents wanted.
Rochester Spray Pump Co.
210 Broadway Rochester, N.Y.



RAISE TWO CHICKS

For every one you counted on.

Reduce the awful death rate. Don't spend good money and time to hatch chicks and then lose them before you get any profit.

CONKEY'S LICE POWDER dusted on the setting hen gets the body lice before the chicks hatch out, and keeps them off the delicate chicks. 25c.

CONKEY'S BUTTERMILK STARTING FOOD is great for the little fellows. Makes them husky. Keeps off disease. Buy a Bag \$1.00.

CONKEY'S GAPEREMEDY should be ready against the appearance of the choking gape worm. 25c, 50c.


CONKEY'S WHITE DIARRHEA REMEDY in the drinking water keeps out this contagious, fatal disease. 25c, 50c.

CONKEY'S HEAD LICE OINTMENT rubbed on the chick's head gets those murderous head lice. 25c.

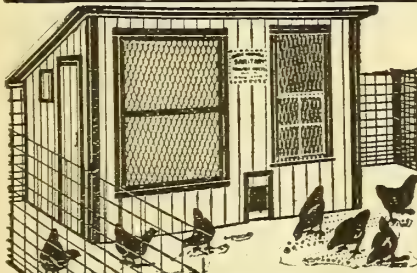
CONKEY'S POULTRY TONIC keeps all birds in vigorous health all year 'round. 25c, 50c.

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A \$36 House, Painted 2 Coats

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for the first week to ten days until the chicks learn to use the fireless hover, letting them out of the hover into the brooder box four or five times a day, for a short stay each time; after about a week they learn to go under the hover and your troubles are over as far as lamps to fill and temperature to watch. Chicks reared in this manner make a surprisingly rapid growth, are more hardy and produce stronger and better stock than the artificially brooded chick.

CARE OF STOCK.

The young stock will come thru the summer months in excellent condition if given a variety of food, plenty of green stuff, and if the lice are kept down. Do not overcrowd, particularly in the roosting quarters, for on the warm summer nights with no breeze stirring the chickens get what is called the "sweats," which stunts them and makes them a prey to all kinds of diseases—colds, sore eye, chicken-pox, etc. With the old stock, the amount of bulky, fattening food should be cut down considerably; if not, the warm weather with too much fattening food will make them lazy and unprofitable to keep on hand.

CULLING.

While culling should be carried on every month in the year, yet the months of September and October are the best culling months. You can then pick out your most promising youngsters, start training and conditioning for the show room; also the undeveloped pullets will be easy to pick out from the precocious ones, which are the birds to keep for the breeding pens.


Atlanta, Ga. **LOUIS C. GERCKE.**

Chick Hatcheries.

Frank L. Platt apparently started something he couldn't finish when he violently criticised the baby chick business in the poultry journal with which he is connected. The trouble is not with the hatcheries. We believe every hatchery is coming as near giving good value for money paid them as in every other line of the poultry business, or any other business, for that matter. They are starting a lot of people with standard bred poultry who might not start in any other way, and are giving good quality for the price. There may be some inferior birds among those they send out, but it is no uncommon thing to get inferior stock from eggs from the big "Who-is-Who" breeders at \$1 per egg. The only feature of the baby chick business that appears to need to be investigated is the advertising of "baby chicks of quality" at an advanced price by someone who pretends to have a hatchery, but who buys them at \$8 or \$10 per hundred to fill the orders.—*The Poultry Record.*

One Gallon Save oil and bother. X-Ray Incubator with heating plant underneath requires only one gallon oil—one filling—for entire hatch.

X-Ray Incubators and Brooders by prepaid express to practically all points. Send for free book No. 10 telling all about the 15 special features. **THE X-RAY INCUBATOR CO.** Dept. 10 Des Moines, Ia.



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"Peerless-66" is the only practical, all-metal, fire-proof, everlasting hatchery ever produced. Make any new or old incubator absolutely automatic with Sheer Fixtures, Automatic Lamp, Regulators, Complete Heating and Ventilating Systems, Incubator Parts, etc. World's standard 25 years. Big Book FREE. **H. M. SHEER COMPANY,** 165 Hampshire St., Quincy, Ill.



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THE VENTILATION OF POULTRY HOUSES.

J. L. PHILLIPS, 6656 Woodlawn Ave., Chicago, Ill.

IF EVERY ONE designing a poultry house, or any other kind of a house, could keep in mind that currents of air are like currents of water in the river that flows quietly along, their danger of building a drafty house would be nearly done away with, for by studying the river, its eddies at every projecting piece of land, and the difference in the speed of the current in the middle of the river and the current along the

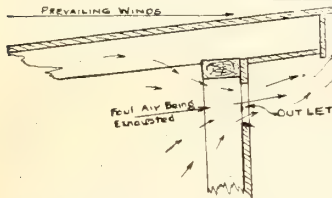
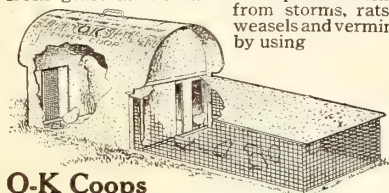


Fig. 1—Shows the outlet at the roof where the action of the prevailing wind is to provide the greatest suction during the cold months when such action is needed to exhaust the vitiated air from the house.

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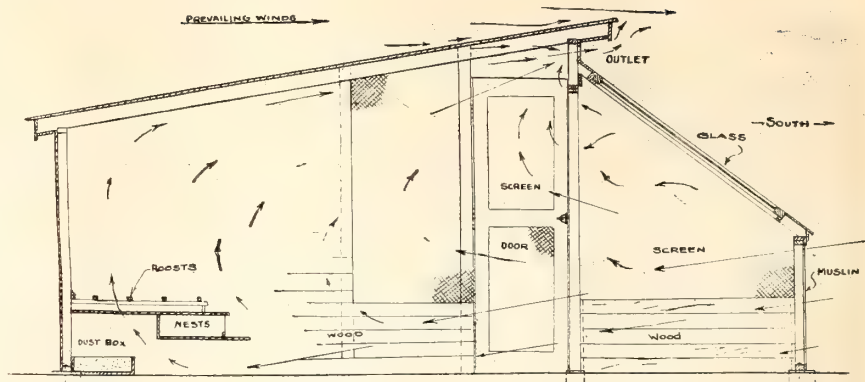


Fig. 2—Shows how the diffused cold air is brought in at the lowest point, is gradually warmed as it gets toward the rear of the house and slowly rises and passes out the outlet prepared, where the suction is greatest.

edges and in the small bays and corners, you will see that it is the same with air currents as they enter the house and sift around partitions and corners.

The drafty house is the one that does not allow the air to enter and go out in a regular defined route or path that you have prepared for it. Every corner, every projecting partition, and every other obstruction in the path of the incoming air will cause eddies, eddies are drafts, they whirl around the corner and being colder, hence heavier than the surrounding air, settle in the corners because they are out of the path of the regular flow. You can hardly do without corners so the thing to do is to regulate the flow of air so that it will have a definite route to

travel, this is what I will endeavor to explain, "Controlling the air currents,"—it is easy.

As the natural front of a poultry house is toward the south, we make that face of the building do the work of letting the air in and taking it out again, you can take it out just as easy as you let it in if you will remember that the prevailing winds in the cold months come from the rear side of the house and can be made to pull the exhausted air out as it blows over the roof. (Fig. 1.)

This is the principle on which all ventilation problems are worked out, take the cold air in at the lowest point, it will be warmed by the bodies of the chickens and gradually rise to the ceil-

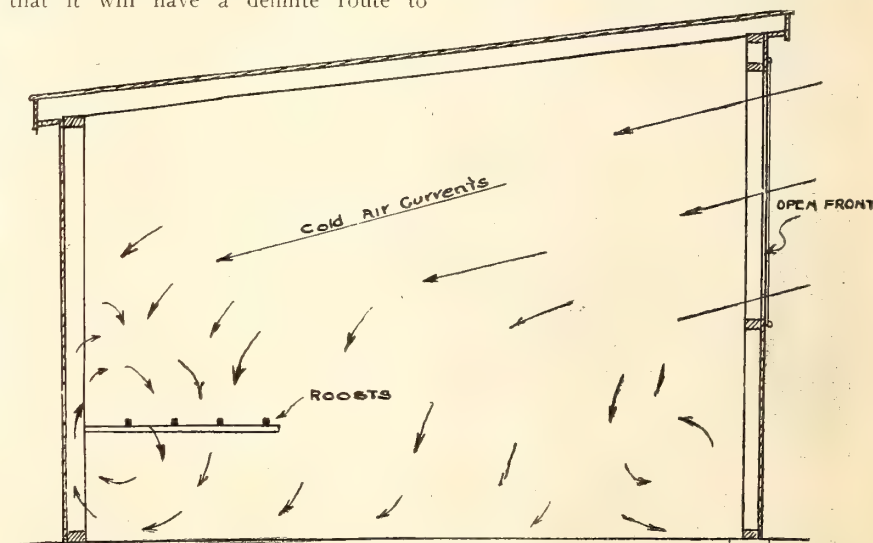


Fig. 3—The usual arrangement. Here only one thing can happen, a down draft on the fowls and a constant draft caused by the whirling of the air at the back of the house. This is a drafty house because there is no definite route for the air to come in and pass out.

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dreds of poultry yards throughout the country.

upholds the reputation of our quality birds for splendid achievements at the shows, and in hun-

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Cock, 1-2-3. Pullets, 1-2.
Cockerels, 1-2-4. Hens, 2-4.
Old Pen, 1. Young Pen, 1.
Special for Best Display in S. C. B. O. English class.

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Old Pen, 1. Young Pen, 1.
Special for Best S. C. B. Orpingtons.

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Special for best Cock, Hen, Cockerel, Pullet. Special for best Pen in Show. Special for largest Display.

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Cock, 1-5. Cockerel, 1. Pen, 2.

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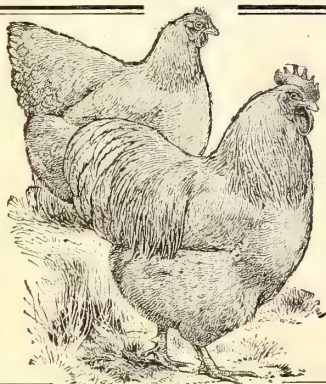
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White Wyandottes
Buff Orpingtons

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Leghorns—Highest Award North American egg laying contest. Five hens laying 1139 eggs, as follows: 251, 250, 224, 222, 192 eggs, 100 pens competing. A thoroughbred English cockerel sired a pullet which made an official record of 314 eggs in the N. A. Egg Competition, 1915. If you want Leghorns that lay, if official records mean anything to you, you will secure our strain. Reds—Highest Award in their class. N. A. Contest, five hens laying 1043 eggs, 209 average, highest official Red record known. White Wyandottes—Mo. Contest—Ten birds laid 2006 eggs, over 200 average. One layer made a record of 265 eggs.

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They scramble for it as naturally as they chase a bug. A complete food, exactly balanced to give rapid growth.

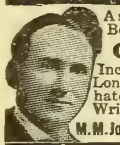
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Mention AMERICAN POULTRY JOURNAL when writing to advertisers.

ing, if you have prepared for this you will have a small opening or slit right under the roof on the south wall which will help it along at such a rate that there will be a steady even current of fresh air coming in at the bottom and going out at the top without the drafts caused by aimless drifting around, your house will be warmer, for there is no air so cold and death dealing as foul air lying like a blanket of ice over the fowls.

The first question to be settled is how much air to let in, this is always a hard nut to crack, but in the case of the poultry man is comparatively easy, keep your openings protected with muslin down from the top so that the natural flow of the heavy cold air will be along the floor, the muslin will be the very best diffuser of the air currents you could devise, it will stop sudden gusts and steady the flow of the air. If it is possible to make this part of the house extend out from the main house, it is all the better for the control of the air current, the distance of the openings from the roosts being enough to slow up the speed of the flow and keep the air from rushing into corners and sticking around where they are not wanted.

The outlet is what we have to pay attention to, it should be right under the roof line and be narrow and long, this opening must be protected by the overhanging roof against rain, and if the inlets are spaced between windows, have the outlets right over the windows and about as wide. This will help the air to flow out more evenly than if they were over the intakes which always has a tendency to cause a quicker flow of air in these parts of the house, therefore more drafts in the corners with a down draft where the front is closed, the result is, a bunch of busy cold air currents going everywhere but the right place. Figure 2 is a sketch of the house showing how I would arrange the intakes and outlets to get the most perfect ventilation possible without the use of fans to force the air around. It should furnish enough fresh air to make the fowls happy and vigorous and fill them with pepper and enthusiasm for their morning meal.

Fresh air is the greatest health restorer for fowls that we can use, cold drafts and foul air are the surest routes to disaster and sickness in fowls or men, let's all pull for better ventilation for man and beast.

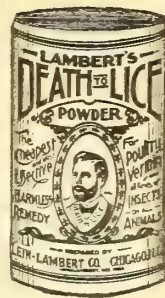
In conclusion let me remind you, keep your muslin covered openings or intakes near the floor of the house and as far from the roosts as possible without destroying the symmetry of the place. Put your outlets on the same side (south side) right under the roof, place these openings over the closed windows and do not make them over 4 inches in height, rather make them 2 inches and about 6 feet long or so. Build all division partitions in the house so that they will simply protect the roosts, use wire the rest of the way. The steeper the slant of the roof from the front back, the better will be the even flow of the air currents.

Trethaway's Anthracite

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Every year for 25 years winners have been hatched from my eggs all over the country. Four of the best pens I ever put together. All headed by a yearling cock mated with hens. Eggs, \$5.00 per 13; \$9.00 per 26. I replace unfertile eggs.

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Don't Experiment

Follow the example of the leaders—ask any successful poultryman which lice killer has been the standard for 30 years—which is acknowledged BEST. He will tell you to

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OLD RELIABLE

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because he has found it always the BEST.

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Send 2c stamp for illustrated circular.

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By SHEPARD STRONG, Cleveland, Ohio.

DURING the past six or seven months our poultry journals have given much space and attention to the reports and lists of awards of the season's fairs and shows. I have enjoyed reading them exceedingly and I trust others have found them equally entertaining.

The success or possible failure of each of these exhibitions has been dependent principally on the number and quality of its exhibits. Did you ever stop to think what the motives were, of the different owners of these exhibits, which caused them to make their respective showings? Possibly some few (a small

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Asst. P. M.

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LEGHORNS

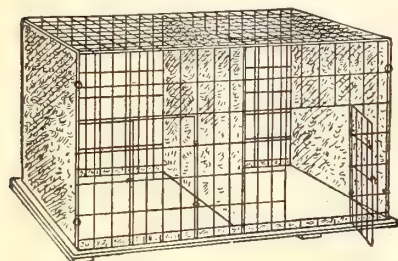
Eggs for Hatching

from grand pens, headed by my Indianapolis, Nashville, Louisville and Memphis winners.

Write for Catalog and Prices

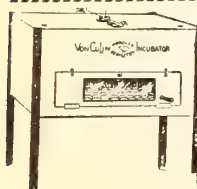
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One of the females from the second prize pen of S. C. Buff Orpingtons at Chicago, 1916. Bred and owned by A. B. Porter, La Salle, Ill.

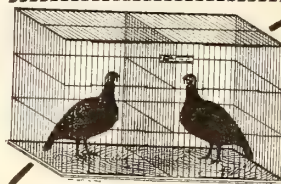
percent of the whole number of exhibitors) have exhibited for the sport involved in showing their birds, but surely only a very small proportion could have afforded to do so with this end only in view. The great majority must have hoped that directly or indirectly some financial benefit would thereby be derived, and they can without doubt be divided up into these three classes:

First—Those who exhibited for their own educational purposes, desiring to learn the merit of their own birds by comparison with specimens of other contestants.

Second—Those who showed for the advertising value and consequent sale of stock and eggs, which might result from winnings made.

Third—Those who exhibited for the direct gain to them that might ensue by the value of any cash prizes that they might win.

Of course, the gentlemen of the two first classes were glad to be paid any cash prizes to which they were entitled, altho in many instances they only showed one or two specimens. The exhibitor of the last named class hoped to receive enough out of his cash prizes to pay the expenses of transportation, fees, salary of attendant, etc., and have something



Show your fowls in our clean and handy, vermin-proof coops. Used by leading fanciers and poultry shows. Finest looking coop on market.

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A. P. Spiller : Dept. A : Beverly, Mass.



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2nd Cockerel and 2nd Pen, Madison Sq. Garden, 1915.

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JOSEPH MAZELIN - Berne, Ind.

left over for profit, having learned by experience that in order to make things come out right financially he must have quite an extensive and varied exhibit.

There seems to be no questions asked by the "wise lights" of poultrydom as to the legitimacy of the motives of the two classes first mentioned, but as to the exhibitor of the third class, poor fellow, he is quite the talk of the day. Flashing editorials have appeared in some journals decrying the evils of his ways, calling degrading names, including that of "huckster" and urging that for the benefit of mankind, he be removed from the face of the earth. We have even read in these journals copies of pitiful letters from self-professed amateurs describing how this "naughty" professional exhibitor had come along and grabbed away the two or three prizes which he had hoped to win himself in order to get back the two dollars—or thereabouts—which he had invested in the fancy poultry business.

Be it said to the credit of the poultry press, however, that masterly editorials and articles written by poultry journal editors and prominent fanciers have appeared in the best class journals, urging that this attacked class of exhibitors be allowed to remain upon the earth and deal in poultry—at least for a little while longer!

This recent upheaval regarding the big string men, so-called, is simply a resurrection of an old question that has sprung up every few years only to die a natural death. From outbreaks of this nature, the only effects have been that of attracting the attention of fair secretaries toward unfair rulings in competitions. There is reason to believe that some secretaries have been glad of an excuse to materially cut the premium money offered in their poultry departments, or to restrict competition to the county in which the fair was held. As a consequence of this narrowing tendency in that which should be a broadening institution, many of the good fall fair poultry shows have been greatly handicapped.

Notwithstanding the tremendous amount of printer's ink and space given over to condemnation of the hucksters, not one has yet appeared from this so-called dangerous class setting forth the conditions as they are in the huckstering business.

As the writer was for a number of years, in a considerable measure, one of the condemned huckster class, it has been suggested that he prepare a few notes setting forth the circumstances in which such business is conducted, the steps of his descent to the ignoble (?) plane of the huckster or stringman, and accompany it with a few comments on the experience obtained thereby.

When eleven years old I first became

TEN LIVE CHIX GUARANTEED

To every 15 eggs or order replaced free—from the Middlemarch Champion Strain of Buff and Black Orpingtons, winners at Chicago Coliseum; Fargo, N. D.; Birmingham; La Crosse; Great Minnesota State Fair, and Minneapolis. \$10, \$5, \$2.50 for 15 Eggs.

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Sec'y-Treas. Minn. Branch of A. P. A.

S. C. ANCONAS

Sure-Win Strain. Twelve Blue Ribbons at Coliseum Show, Chicago, in last three seasons. Grand winning at Wisconsin State Fair, Milwaukee. A few good cockerels left. Eggs from four choice matings. Mating List Free.

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Our Breeders ^{are} in Full Lay

AND WE CAN FILL ORDERS THIS MONTH FOR

Eggs for Hatching

FROM

ANCHORAGE FARM STOCK

Bred-to-Lay

Bred-to-Pay

All good quality, large sized, healthy, vigorous, mature breeding birds. All open-air housed. Certain to yield strong, sturdy chicks. Fertility is good. Chicks have livability. Big values at a price you can afford to pay.

S. C. White Leghorns

Combine the best in American and English blood lines. Lay large sized white eggs and keep everlastingly at it. Certain to please you and sure to fill the egg basket.

White Plymouth Rocks

Big, healthy, vigorous specimens of the Lay and Pay kind. Big producers of fine, large, brown eggs. Bird for bird they are equaling the Leghorns in egg production.

HATCHING EGGS from either of above varieties, \$2 per fifteen; \$5 per fifty; \$9 per hundred.

Order now from this ad. We have no circulars or catalog and for that reason you do not have to pay for such literature in extra price on eggs. Prompt shipments this month. Cash must accompany order.

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A trial package, enough to paint and disinfect 250 square feet, sent by parcel post for 25 cents.

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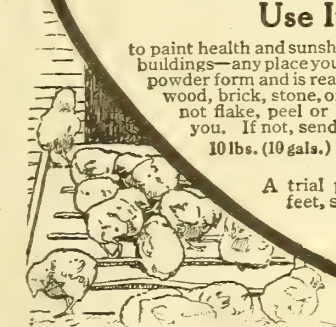
Ocoquan, Va., Feb. 15, 1916

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Some months ago we procured from you some of your "Carbola Disinfecting Germ-Killing White Paint." We made a test on our new breeding house and the result was very satisfactory, indeed. The color is the best white we ever saw. I would not think of using whitewash if it were possible to get "Carbola." I find Carbola will not rub or chip off, neither will it blister or make nesting places for lice, as does white wash. We thank you very much for your prompt filling of our order and will not hesitate to recommend Carbola to poultry breeders.

REN W. CROCKETT, Poultry Dept.



Powers' White Wyandottes

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Hatching Eggs

From Prize Pens—\$5 for 15.
From Select Pens—\$3 for 15; \$15 per 100
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"A Revolution in Egg Production" is a book along an entirely new line. Every poultryman should have it. See the advertisement on page 793.



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The most Satisfactory and Efficient Chick-Starter. Follow with

Blue Ribbon Growing Mash

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Blue Ribbon Developing Feed

and you will have strong, healthy birds that will be money-makers for you.

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BLUE RIBBON FEEDS

GLOBE ELEVATOR COMPANY
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CHANGE in PRICES

Owing to constant rise in cost of materials we are forced to make a slight advance in prices on our Leg Bands for Poultry, effective March 15, 1916.

Write for new price list Today.

KEYES-DAVIS COMPANY, Inc.

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Keep Them in Condition!

To get a maximum egg yield next fall and winter your birds must be kept in the pink of condition from hatching to maturity. It has been proven that the feeding of Mustard to poultry promotes an increased egg production, and is also permanently beneficial to their health, vigor and stamina. **French's Poultry Mustard** is the original Poultry Mustard in America, pure and of great strength, hence only a small quantity is required for each fowl. The best results are obtained from its continuous use. Prepare your birds now for more eggs next winter. Booklet free.

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Department A - Rochester, N. Y.

Deer's Quality White Rocks

Eggs, Eggs—Some extra nice birds for sale
Write for mating list

F. L. DEER - Franklin, Ind.

interested in fancy poultry, thru picking up, by chance, the catalog of a seed man, in the back of which was a poultry section. This "silent salesman" fulfilled its mission in my case, since I acquired without delay an attack of so-called "hen fever," from which I have never recovered. No amount of coaxing on my part prevailed upon my family to allow the purchase of any of these beautiful birds. I was told that my mind should be concentrated upon school work and that the common mongrel fowls which we had were good enough for anybody. In the course of time one of our neighbors purchased some White Leghorns of one of the leading breeders of that time and it came about that I was permitted to purchase three sittings of eggs from this stock. The price was fifty cents per sitting, which at that time and in that locality was considered pretty high. My mother advanced the money, the agreement being that I should earn it by helping with the garden, in which work I was to be credited with five cents per hour.



The 284-egg hen, Barron Leghorn, at Morris Farm, Bridgeport, Conn., R. 4.

I gave the birds the best care and attention and some time later entered two pairs in our local fair, which competition was limited to the county. I shall not soon forget those anxious moments while the committee (of three wise men) was passing upon the worth of the six or seven pairs of White Leghorns and the great pride I felt when the first prize ticket was bestowed by the august chairman upon my coop.

Passing over the second and third year's experience of a "huckster in the making," in my third year I had increased my stock to eight varieties and at the county fair won not alone a number of individual prizes but a special for best collection. I hate to admit the possession of what must have been even then a "sordid mind"—but I must have had one! I cannot recall just how many prize tickets were tied on my coops that

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For the past nine years I have devoted my time towards perfecting Reds, and according to reports received from my customers I'm able to produce Reds fit to win at any show. All special pens are trapnested. Get a start here and then you'll know where the good ones come from. Best eggs \$3.00 for 15.

Remember I have no other breed. Write your wants.
RED TOP POULTRY FARM
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The letters in this remarkable book are backed by affidavit. They show why over 2000 dealers and half a million users recommend this machine. The standard for 25 years. Built UP to a standard, not DOWN to a price. Built by experienced incubator makers. It saves you loss from wasted eggs because the



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Is guaranteed to hatch every hatchable egg. Try the Buckeye in the same room with any other and if it doesn't hatch more chicks and better chicks the very first time we'll take it back.

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"The Verdict of the User" a volume of remarkable letters from men who know. Write for your copy.

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Guaranteed to Hatch More and Better Chicks



45 Varieties

Land and Water Fowls

Send for free illustrated catalogue, which tells you much you should know. Stock and eggs at all times. Mention A. P. J.

S. A. HUMMEL Box 52, Freeport, Ill.

Bawden's Buff Plymouth Rocks

Sunlight Strain

The blood of this strain is used in nearly all the best prize winning flocks in Canada and the United States. Send \$5.00, \$10.00, \$15.00, for Cockerel on approval.

1916 Mating List Free.

J. BAWDEN, Box 20, Ridgeway, Ont., Can.

CHAMPION

Rhode Island Reds

Win 1st hen and 4th cockerel at Greater Chicago Show, January, 1916, only three birds entered. Stock and eggs for sale. Eggs from 1st pen, \$5.00 per setting. This pen includes 1st hen at Chicago.

FRANK JOHNSON, 220 W. 110th St., Chicago



140 EGG INCUBATOR CHICK BROODER

Both are made of Both \$10
Calif. Redwood. For
Incubator is covered with asbestos and galvanized

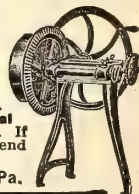
Iron; has triple walls, copper tank, nursery, egg tester, thermometer, ready to use. 30 DAYS' TRIAL—money back if not O.K. Write for FREE Catalog Now.

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\$5 NO MONEY IN ADVANCE

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PERRY'S White Leghorns

won Best Display at the National Meeting of the Club—Rochester, January, 1916. Bred 14 years for Eggs and Beauty, and they make good in customers' hands. Eggs from our best—\$2.00 per 15; \$10 per 100. Second best—\$1.25 per 15. Grand Cocks, Hens, Cockerels and Pullets, at extremely low prices. Free Circular.

Louis H. Perry Route 8 Clay, N. Y.

WHITE HOUDANS

EGGS FOR HATCHING

M. L. Starks Dept. A Starks, Wis.

year by the "committee," but I have a clear recollection that the actual cash received for same, amounted to twenty dollars. After this conquest at the county fair, I regarded myself as quite a poultryman and desired to look for broader fields. A premium list of another fair, open to outside competition, came to my notice and I took an exhibit there on our lumber wagon, accompanied by a man who worked on the home farm. We took along forty birds and secured seven firsts and seven seconds, the competition being in pairs, as was the case, usually, in those days. The actual cash represented in the prizes received did not come anyway near paying the expense to which I was put by the trip and I was obliged to use a part of the money which I had saved from previous winnings in order to meet expenses.

And right here is where I fell from grace. On the closing day of the fair I saw outside the poultry hall a large number of coops which were apparently one shipment. There must have been fifty of them, each of which had four or five compartments to the coop. They contained what looked to me at the time very fine fowls of every variety of poultry that I had heard of up to that time, and a great many others beside. It was amazing to me that such an enormous collection could belong to one individual or firm and I decided it to be a government exhibit. A gentleman soon appeared on the scene to feed the birds, and I made myself known and found that the whole outfit was the property of one man. During my talk with this interesting "huckster," he explained to me how he followed up the circuit of fairs and I resolved then and there to increase my number of varieties just as fast as my small capital would permit. I figured that it would be an easy matter to gradually get more stock and more varieties and net from the business a fine income. But in this I was doomed to disappointment.

Instead of the fat profits on which I had counted, my whole poultry venture nearly went to pieces on the rocks. The first year after deciding to radically increase my number of varieties, I was able to purchase first-class stock in four varieties, from which I succeeded in breeding some good stock. In addition I had continued with the varieties which I had been breeding before. Just before the fairs I bought up fifty or more birds wherever the opportunity presented, at an expenditure of a few dollars each. I succeeded in getting together a collection of about one hundred head, which were mostly taken over the road by wagon, but in one or two instances shipped by freight. To say that the venture proved unprofitable is putting it mildly. For several years this continued.

The first real high quality string that I ran up against belonged to the late M. T. Burn of Canada, and what was done to my insignificant representation at that time was a plenty. But I was not discouraged and kept working to improve my stock and increase my show string.

MAKE HENS LAY

By feeding raw bone. Its egg-producing value is four times that of grain. Eggs more fertile, chicks more vigorous, broilers earlier, fowls heavier, profits larger.

MANN'S LATEST MODEL Bone Cutter

Cuts all bone with adhering meat and gristle. Never clogs. 10 Days' Free Trial. No money in advance.

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1st and Champion White Rock Cockerel, Boston, 1916.

Hayward's Wh. Plymouth Rocks

Won at Boston, Mass., January, 1916,

1-2-3-4 Pullet 1-4-6 Cockerel
5-6 Hen 2-4 Pen

Also champion male, best display and 4 shape and color specials.

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are guaranteed to make more trips than the coop you are now using. We also guarantee a saving and a large one too. We are ready to prove our statements. You will eventually use the round cornered coops. A hundred reasons why. Get our interesting booklets and special offer, free for the asking. Special crates, etc., made to order. Agents and dealers write us.

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In Third North American Contest Old Forge
Buffs lead their class.
In National Missouri Contest won Cup for
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OUR 229 EGG STRAIN IS OFFICIAL

Place your ORDER today—Eggs \$1.00, \$2.00, \$3.00 per setting from our best pens which originally sold at \$5.00, \$8.00, \$10.00. Bargains in yearling hens. Order your 1916 Show Birds.

OLD FORGE STRAIN IS A HEAVY EGG LAYING AND SHOW STRAIN

OLD FORGE POULTRY FARM Box A SPRING GROVE, PENNA.

Chicks 5 cents each

"I raised 100% with OCULUM. I lost 80% without OCULUM."
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Feed **Oculum**, get more eggs, hatch more chicks at same cost. Thousands are doing it.
By using **Oculum** you can produce chicks that will live for 5 cents a piece.

Trial bottle (2400 doses) 10 cents.

Ten cents will neither make or break you; but it may enable you to make more money out of your poultry. Booklet explains all—it's free.

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Quality Bred-to-Lay

S. C. Wh. Leghorns Exclusively

CHIX—Strong, vigorous fellows; the kind that live and grow, at \$10.00 per 100; \$55.00 per 1000.

EGGS—\$1 per 15; \$5 per 100; \$45 per 1000. All cnix and eggs are from mature hens on free range.

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LAYERS or SHOW BIRDS

We can supply you birds that cannot be excelled for type, color, or as egg producers. Our birds have free range on a 300 acre orchard, meaning sturdy, vigorous fowls; 265 trap-nests in operation, so we know what these birds will do. Wh. Wyandottes and S. C. Wh. Leghorns. Baby Chicks and Eggs for hatching. Strains established 1906.

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SUCCESSFUL EGG FARMING

200 Eggs
A Year
Per Hen

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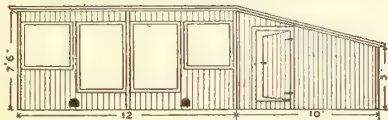


The eighth edition of the book "200 Eggs a Year Per Hen," is now ready. Revised, enlarged, and in part re-written; 96 pages. Containing among other things the method of feeding by which Mr. S. D. Fox of Wolfboro, N. H., won the prize of \$100 in gold offered by the manufacturers of a well-known condition powder for best egg record during the winter months. Simple as a, b, c.—and yet we guarantee it to start hens to laying earlier and to induce them to lay more eggs than any other method under the sun. The book also contains a recipe for egg food and tonic used by Mr. Fox, which brought him in one winter day 68 eggs from 72 hens; and for five days in succession from the same flock 64 eggs a day. Mr. E. F. Chamberlain, of Wolfboro, N. H., says: "By following the methods outlined in your book I obtained 1,496 eggs from 91 R. I. Reds in the month of January." From 14 pullets picked at random out of a farmer's flock the author got 2,999 eggs in one year—an average of over 214 eggs apiece. It has been my ambition in writing "200 Eggs a Year Per Hen" to make it the standard book on egg production and profits in poultry. Tells all there is to know, and tells it in a plain, common-sense way.

Price 50 cents; or with a year's subscription to **AMERICAN POULTRY ADVOCATE**, both for 75 cents; two-years' subscription and book for \$1.00, or given free as a premium for two yearly subscriptions at 50 cents each. Our paper is handsomely illustrated, practical, progressive and up-to-date on poultry matters. Established 1892. 44 to 132 pages monthly. 50 cents a year. 3 months' trial 10 cents. Sample copy free. Catalog of poultry literature free. Address

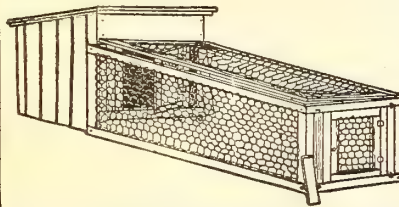
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Our latest model

30 other styles to select from. Send for Catalog No. 422.

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Winner A. P. A. Gold Medal
Best Cockerel, Harrisburg, Pa., Dec., 1915
Satisfaction guaranteed.
Send for Mating List.

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AT GREAT CHICAGO JANUARY SHOW, 1916, 1st cock bird (one entered), was one of the real sensations of the show. Eggs \$5.00 and \$2.50. A few nice females, \$2.50. Place your orders early. Satisfaction guaranteed.

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Have won at Madison Square, Pittsburg, Buffalo, New York State Fair, and Hagerstown, within a year. They win in any competition. Write your wants. **THORNYCROFT BUFF LEGHORN FARM WASHINGTON, PA.**

Gradually I culled out all poor stuff and was able to get together a string of about 225 head of good stock for those days. I found that by strict economy I was reaping a small profit and increased in a year or so to nearly five hundred head. In those days I never bought any poor stock, in fact buying as little as possible, as there was small profit in doing so. The going price at that time for first-class specimens that would go out and win was four to five dollars apiece for young birds and five to seven dollars apiece for old. Occasional opportunities would present themselves to purchase good birds at lower prices, but they were few and far between. For three years I went about with this string of four hundred and fifty or more head and made only a living profit, at the end of which time I found it to my advantage to abandon the business.

During these years of association with them I found my competitors with large strings to be royal hearted fellows, always ready to lend a helping hand and with more of the spirit of fraternalism than I have found to exist in other lines of business. The wholesale condemnation of these poultrymen as indulged in by narrow-visioned editors will react against the entire poultry business. But there is a humorous side to it and that lies in the fact that in many instances these so-called "hucksters" are among the most prominent judges at our winter shows. *They are also to be found among our most prominent and highly lauded fanciers.* The "artificial discrimination" (as a recent writer in your columns wisely calls it) made between fanciers and so-called "hucksters" and some others who do not advertise in the muck-raking journals, is too thin to veil the eyes of thinking poultrymen.

To emphasize the good sportsmanship of the huckster poultryman, let me tell you of a happening which took place at the Albany, N. Y., County Fair some ten years ago, at which there were over 2000 head of poultry exhibited by numerous specialty breeders and six or seven exhibitors with car-load lots. The regular judge engaged for the occasion was unable to continue his work after the first half day and the Secretary put the matter up to the exhibitors to decide if he should send for another judge or allow the different exhibitors to judge in varieties in which they did not compete. There was a little discussion of the situation.

Sworn Statement Made Under
New Postal Law

Statement of the ownership, management, etc., of **AMERICAN POULTRY JOURNAL**, published monthly at Chicago, Illinois, required by the Act of Aug. 24, 1912.

Note—This statement is to be made in duplicate, both copies to be delivered by the publisher to the postmaster, who will send one copy to the Third Assistant Postmaster General (Division of Classification), Washington, D. C., and retain the other in the files of the post office.

Editor—James W. Bell, Chicago, Ill.
Managing Editor—Dr. Prince T. Woods, Silver Lake, Mass.

Business Manager—James W. Bell, Chicago, Ill.

Publisher—American Poultry Journal Pub. Co., Chicago, Ill.

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James W. Bell, Chicago, Ill.

Henry G. Eisert, Chicago, Ill.

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B. M. Eisert, Chicago, Ill.

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There are no bonds, mortgages or other securities outstanding against American Poultry Journal Pub. Co., Chicago, Ill.

James W. Bell, Business Manager.
Sworn to and subscribed before me this 23rd day of March, 1916.

[Seal.] Hy. G. Eisert, Notary Public.

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These copyrighted records are the result of the combined experience of many prominent and successful poultrymen, and they are the simplest and most complete blanks ever devised. Price of "Poultry Common Sense" with records, 50 cents.

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Make Your Poultry Pay

It can easily be done by following **The Briggs Method**, the latest and greatest help for poultry raisers in this new fifth edition of his valuable book, **Profits in Poultry Keeping Solved**, Edgar Briggs tells his wonderful secrets and how he made \$350.00 a Month, from 500 Hens.

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The author of this valuable book is Mrs. D. O. Teasley, a duck breeder of national reputation, assisted by Mrs. Andrew Brooks, Mrs. U. R. Fishel, Mrs. Geo. E. Simpson and others, all duck raisers of practical experience, who have been very successful.

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Origin and history; the three varieties—English Penciled, Fawn and White and White; claims for the Indian Runner; incubation and hatching; brooding; feeding and care; houses and housing; mating; marketing; questions and answers; duck don'ts, and experiences of duck breeders. Price, 75 Cents.

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ation and the decision was unanimous to select two of the largest exhibitors (they need not be ashamed to have their names mentioned—John Kriner and W. G. Minich) to jointly judge all classes regardless of whether they owned birds in them or not. I wish to go on record as stating that I never saw a show judged more fairly and with less dissatisfaction on the part of all the exhibitors than was that one.

It has been my experience that the specialty breeders of judgment and experience have no objection to the big string men, but on the contrary favor their showing, as it balances up the show and makes it more attractive to the public. The objection is plainly conceived in the narrow confines of a selfish mind and is opposed to the best interests of the poultry industry.

All this recent agitation regarding investigations of breeders by a committee, and the exhibiting of large strings for cash prizes, and worked up to the highest pitch by benevolent (?) editors is doomed to no more far reaching effect than to lessen the entries at the fall fairs (due to the cutting of prize money and confining of competition to a more limited territory) and the possible investigation of the motives of this committee and those who backed them.

Furthermore, the lessening of entries at these fairs will only be temporary, as any fair minded management might adopt such a policy on trial, but will sooner or later see the error of it. The suggestion that the American Poultry Association should advance any legislation recommending that large exhibits of poultry at shows or fairs be barred from admission, is absurd. If the association wishes to give its attention to matters pertaining to fairs, it will be performing a far more useful mission if it will investigate why the entrance fee in the poultry departments at most fairs is several times higher in proportion to the amount of prizes offered, than in any of the other departments.

In conclusion let me say that any writer who states that a man can make a tremendous profit by buying up a lot of birds and exhibiting them at the fairs, does not know what he is talking about. Likewise, any writer who glibly and disparagingly speaks of these exhibitors as "hucksters" in an endeavor to stamp them as undesirable factors in the business, simply because of the large size of their exhibits, is about broad minded enough to call Shakespeare and Dickens "hack writers" for the reason of the large number of their productions.

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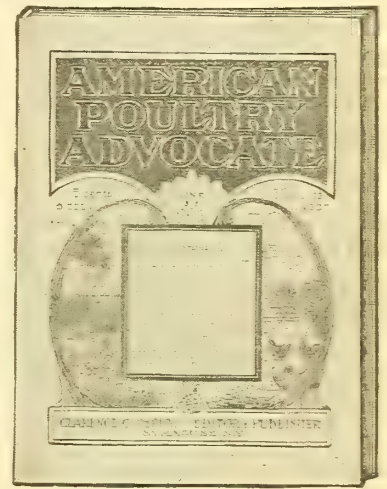
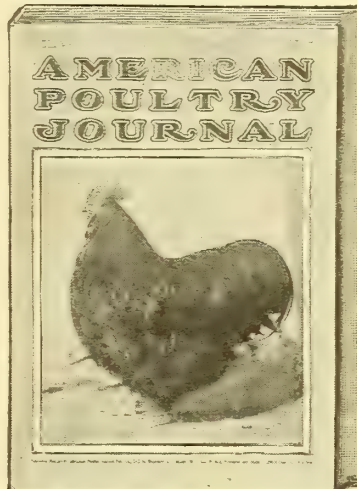
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Baby Chicks after May 1st \$10.80 a 100. Eggs \$1.50 to \$3.00 a setting. Send for mating list.

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BUCKEYES.

By **H. W. DEEM, Eaton, Ohio,**
Secretary American Buckeye Club.

THE first question which comes to your mind is which breed of poultry shall I substitute for the one not answering requirement? To the beginner, as well as many experienced poultrymen, these questions arouse a great deal of discussion and debate. The beginner invariably feels he is up against a very hard proposition, while the experienced poultryman often finds it difficult to transfer from one breed to another, fearing he may make a mistake.

The Buckeye was admitted to the Standard eleven years ago, the breed has developed slowly but surely, and now they are bred with the highest possible finish, undisputed qualities of usefulness, shape, color and general appearance strongly appealing to the highest talented artist. We have the goods now. We have what the world wants. A breed that is strictly distinct—different in every way from any other breed of fowl. The only Red breed that holds its rich mahogany color that will not fade, the only breed that has that aristocratic style that is admired by every true lover of poultry, as an egg producing fowl they have no equal, they stand today as the world's greatest utility breed.

The breed has not been advertised. Has only been shown at some of our best shows, yet whenever they are seen or tried out they are liked. Since the breed has reached its present state of excellence, the wise breeders, those that look ahead, are looking around trying to secure breeding stock to use as a foundation strain for their future flock of Buckeyes.

The breed met with great favor at the world's greatest poultry show at the recent World's Fair, November, 1915; also the American Buckeye Club Show, Chicago, December, 1915, where they were carefully examined from every angle by breed critics, judges, poultry journal editors, reporters and the general public.

I strongly urge the beginner to look upon the selection of a breed from a business standpoint. Consider usefulness of the breed first, for after all that is where most of the profit comes from. Buckeyes lay a large light brown egg, are a yellow skin fowl, possess the best formation for broilers and table qualities, they have a small pea comb and small wattles that never freeze—this point alone should appeal to you strongly; the bar of slate in back preserves the rich mahogany color not found in any other Red breed.

I believe I have said enough to interest the unprejudiced in this wonderful breed. The writer has the honor to be the Secretary of the American Buckeye Club and would be pleased to mail the 1916 club catalog to any one on the receipt of eight cents in stamps.



RAISE BELGIAN HARES

FOR US.

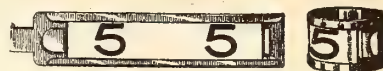
Big money, stock costs a trifle and we buy all you raise at \$2.00 each; also Cavies, Mink, Skunk, Fox, Squabs, Pheasants, Frogs, etc. Contract, instruction book, etc., for dime, none Free. A few chances left. Address **The Belgian Hare, Box 16, Holmes Park, Mo.**

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Poultry Band Free



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Send for a free leg band for that prize bird of yours. We will also give you a circular of the Bourne big numbered poultry band, having large numbers easily read from a distance. Especially recommended for trapnested hens. State size wanted, Bantams, Leghorns, Rocks. Male or female. Band is made with black numbers from 1 to 300 on red, white, yellow, pink, cerise, green and light blue celluloid. Will stand weather and water. Price 3c each, \$2.50 a hundred. Send cash with order.

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male and female. Out of ten entries Golden won nine regular premiums.

Let me start you right as I have others; send for handsome book.
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Winners at Brooklyn and the Grand Central Palace, New York. I can furnish you with birds that win. Order eggs for hatching early; Prices reasonable.

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that have size and quality. Winning three successive years at Quincy show. Eggs for hatching; write for prices.

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that will please you as well as the judges. My free circular tells all about them.

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Heavy winners at Akron, Cuyahoga Falls and Canton. Write us for prices on stock and eggs.

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The "BEST YET" Aluminum Egg Band Cannot come off, comes bent ready to apply. 5 sizes, pigeon to turkey. State breed. 12 15c; 25 20c; 50 30c; 100 60c. No stamps. Also colored leg bands and seamless pigeon bands. Circular free.

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Bred to win. Free range, superior birds mated to produce best results in standard requirements. Cockrels, Trio and Pens. Prices reasonable.

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Recent Inventions for Poultrymen

By Lester L. Sargent, Patent Attorney, Washington, D.C.

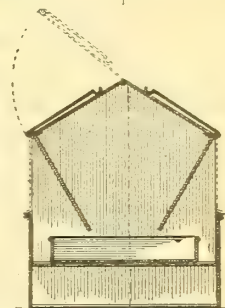
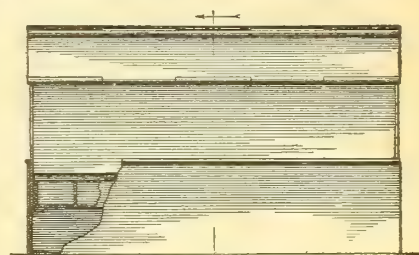
A LEG BAND for fowls, invented by Joseph B. Thomas, Toledo, Ohio, has a lock of simple construction, integral with the leg band. An integral spring catch is arranged within a socket formed by bending inwardly, projections at one end of the band. The other end of the band has spaced slots in one of which the spring catch may engage, the particular one being determined by the size of the leg band desired. The band cannot be removed without destroying it after it is once locked in place. The patent is No. 1,176,181.

A grain sprouter devised by John A. Barhorst, Minster, Ohio, has trays with central flues thru which the hot vapor from the pan of water beneath the lower

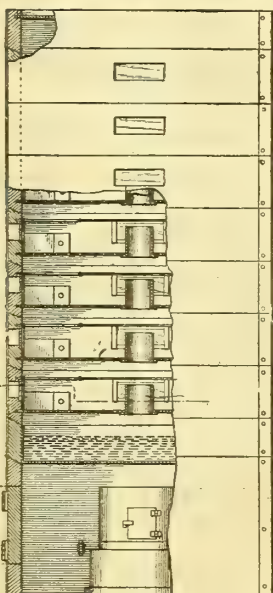
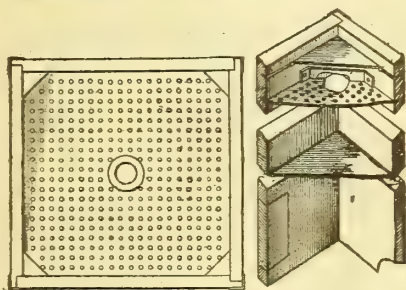
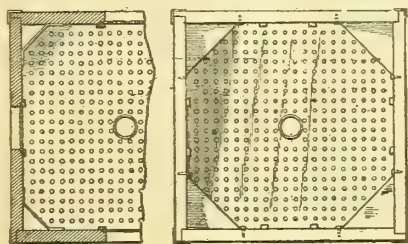
tray may pass readily upward and accelerate the sprouting. Each grain holding tray has a screen bottom and also cut-off corners, thru which the hot vapor may rise as well as thru the central flues. Individual windows are provided for each tray section, in order that the maximum amount of light may be admitted to accelerate the sprouting of the grain. Grain may thus be very quickly sprouted to produce an excellent poultry food. The patent is No. 1,177,564.

Cornelius N. Trompen and Maurice J. Strube, Chicago, Illinois, are joint inventors of a poultry feeder having a hinged roof, slanting hopper sides leading to a shallow feed tray to which the poultry has access from the partially open sides of the feeder structure. The hopper is filled with feed from which it is automatically supplied to the tray by gravity for consumption by the poultry as needed. Patent No. 1,176,256.

A hen's nest device intended to break up sitting hens and cause them to quit the nest has been devised by Harry W. Kemble, Setauket, New York. It comprises a frame having a screen stretched across it, the frame being supported by



Poultry feeder patented March 21, 1916, by Cornelius N. Trompen and Maurice J. Strube, Chicago, Ill. Patent No. 1,176,256.



Grain sprouter patented March 28, 1916, by John A. Barhorst, Minster, Ohio. Patent No. 1,177,564.

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BABY CHICKS and EGGS for 1916

AT LIVE AND LET LIVE PRICES

Bred-to-Lay S. C. White Leghorns Exclusively

Eggs before May 1st, \$3.00 per 15; \$12.00 per 100; \$50.00 per 500. Day-old Chicks, April hatch, 15c each; May hatch, 13c each; June hatch, 10c each. Place your order early.

H. S. HARTZMAN, 1125 13th Avenue, MOLINE, ILL.

START RIGHT WITH Single Comb White Orpingtons

A few cockerels left. Eggs \$3.00 and \$1.50 per 15

CHAS. M. CRANE - - - - - ELKHORN, WISCONSIN



QUEEN KATHERINE III
A winning Boston Pullet, 1916

Well Balanced Chicks

Must Be Bred from Well Balanced Birds

These are our specialty, and we are producing our winners from just these birds. One customer produced 10 prize winners from one setting of Barred Plymouth Rock eggs, with a total of 8 first prizes at 4 shows on these same birds. We can do likewise for you. Look up our record for 1916. Send for mating list.

**Barred Plymouth Rocks
S. C. Brown Leghorns**

GROVE HILL POULTRY YARDS
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FOREST HILL POULTRY YARDS

Quality White Ply. Rocks

Bargains in Eggs for May and June. Now is the time to raise your prize winners, and next winter's layers; the season has been backward and there is plenty of time to raise the best of chicks this season. We will sell you eggs from our extra good pens just as they run for the sum of \$3.00 per 15, \$5.00 per 30, \$7.00 per 50, \$12.00 per 100. No reserve pens; you get eggs from the pens we raise our winners from. Send your order now. Don't delay! Address

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TENACRE

EXHIBITION — S. C. WHITE LEGHORNS — UTILITY

15% REDUCTION { on Hatching Eggs after May 1st
on Baby Chicks after May 15th

Illustration shows WILLIAM THE CONQUEROR, One of Our Prize Winners

Write for CATALOG and
MATING List. Inspection
of Our Plant solicited.

Tenacre Poultry Farm
R. F. D. No. 3, PRINCETON, N. J.

RAU'S BLUE ORPINGTONS SPECKLED SUSSEX

for beauty—for usefulness—they fill the bill. My Blues for three seasons unbeaten at Indianapolis, Chicago Coliseum, Greater Chicago, Milwaukee.

Eggs from Matings sure to produce rich quality, \$3, \$4, \$5 and \$6 per 15.
Send for 1916 Mating List. Get my strain and your chickens will pay you.

FRED RAU

Grand Hotel

INDIANAPOLIS, IND.

BUTTERCUPS

Do you want Buttercups like this **Palace Queen**? Isn't she a beauty? Won First and Color Special at the Palace, 1915—she is "Bronze Beauty's" daughter.

My pen of prize winners, headed by 284-egg cock bird, will produce some famous layers as well as Blue Ribbon winners. If you want to win the Blue, try some of these eggs.

50 Eggs from pen headed by 270 Cockerel, \$5.00

Free booklet. Eggs half price after June First.

Mrs. Hattie D. Reed Chestnut Terrace Marcellus, N. Y.

Tarbox's Silver Wyandottes

Winners at the World's Greatest Show, Panama-Pacific Exposition. We made 9 entries and placed them all. Winning one-half of the regular prize money, also \$20.00 special for best Cock, Hen, Cockerel and Pullet.

EGGS

EGGS

EGGS

EGGS

For the first time in about 15 years we have decided to put eggs for hatching on the market and will sell a limited number of settings from our best pens. Send for mating list. Stock for sale at all times. Don't fail to get our prices on same before buying. Send for catalog giving full list of winnings for season.

A. & E. TARBOX

Box A

YORKVILLE, ILLINOIS

Deming's Single Comb Rhode Island Reds

Again they win at Madison Square Garden; this makes three years that our birds have shown their "class" at the Garden Show. Don't fail to look up their records at the egg laying contests. If looking for stock or eggs that will produce winners and layers for you, write me.

H. P. DEMING, Box 900, Winsted, Conn.

White Leghorn Eggs that Hatch

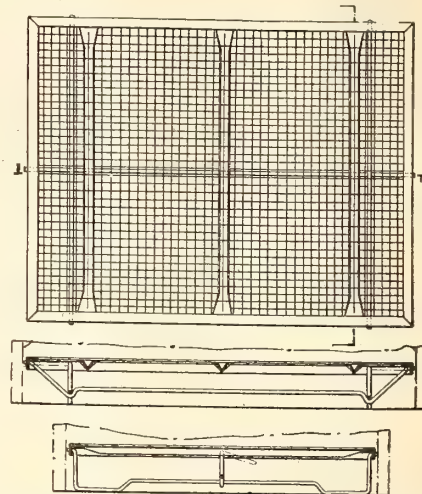
at prices that will suit you—running high in fertility. All stock farm raised, insuring health and vigor. Stock for sale. Write today. Mention A. P. J.

C. C. NYE

Box A

HARRISTOWN, ILLINOIS

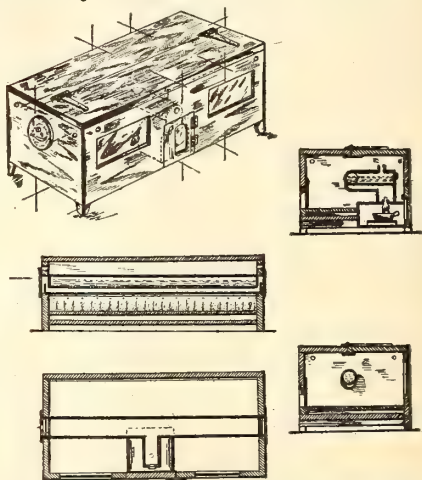
foldable legs held in operative position by a foldable brace. When the screen device is placed in a nest it raises the hen from the bottom of the nest and thus prevents the generation of sufficient



Hen's nest device patented March 14, 1916, by Harry W. Kemble, Setauket, New York. Patent No. 1,175,638.

heat by the hen for satisfactory sitting and results in her resuming laying or at least abandoning the incubating project. Patent No. 1,175,638.

James R. Hadlington, of Seven Hills, New South Wales, Australia, has obtained United States patent No. 1,176,545 on a chicken brooder. The brooder has a lamp and hot water heating pipes. The usual brooding chamber and heating chamber are provided in the lower central portion of the structure adjacent to one side and provided with a vertical passage. The water pipe extends longitudinally of the chamber from end to



Chicken brooder patented March 21, 1916, by J. R. Hadlington, Seven Hills, New South Wales, Australia, U. S. Patent No. 1,176,545.

end in horizontal position. A passage of reduced vertical extent along the lower portion of the water pipe opens into the previously mentioned vertical passage. End branches from the second vertical passage communicate with outlets thru the ends of the casing. The heated gases, air currents and products of combustion are brought into close engagement or impingement with the lower portion of the water pipe. It is claimed for the device that it obviates the use of a hover and that it contains no passages into which the chickens are apt to crowd. Patent No. 1,176,545.

Questions and Answers

Conducted by
Prince F. Woods, M. D.



Success With Winter Chicks.

Q. Who says it does not pay to raise winter chicks? I had some Buff Orpingtons hatched November 12 and the pullets are now in full lay. Received my first egg on April 1. These birds were kept in a large goods box with south side open and were fed mostly on oats. Lewistown, Ill.

R. M. Seward.

A. Winter chicks are often very satisfactory. In fact some of the finest soft roasting chickens sold in our big Eastern markets in spring and early summer are winter chickens. It is a fact worth noting that even with late hatched winter chickens the pullets generally begin to lay in the spring breeding season, even tho laying maturity is reached at a much earlier age than is common for the breed when chicks are hatched in spring. Season, apparently, has a marked influence on the reproductive functions of most animals.

High Fertility—Low Hatchability.

Q. This season I have had setbacks hitherto unknown to me, by way of in-

cubation, being able to secure only eight chicks from three hatches of incubator and hens combined. All development ceases about end of second week of incubation; still, never before have I had such wonderful fertility. Have small matings, vigorous males and unusually high percentage of fertility, but none hatch.

Most females are pullets, but some are hens, and I find the same result with both and all have been laying for several months on a 50% average, according to trap nests. Since early February I have been trying for chicks with both clucks and incubator, setting each at same time with the same results and identical development under each case, each ceasing after about fifteen days.

All must work in litter for every feed, excepting daily mash, I personally attend to feeding and care. All receive standard scratch feeds and plenty of greens. Mid-day mash consists of bakers-bread moistened, handful chopped onion, salted and seasoned, and an allowance of one tablespoonful to each female.

For some time I have been placing the cause on over-fat condition and for three weeks have made them go on shorter rations. Do you believe that over-fat condition can still be the cause with females continually laying well for several months. Reduced feed gradually when starting and have noticed no decrease in egg production.

Peru, Ill.

F. W.

A. It is not uncommon to find that when hatchability is low the fertility is high; that is in accord with nature's methods of compensation. We do not believe that these birds were over-fat, nor do we believe that the condition which many assume is over-fat will unfavorably influence either fertility or hatchability of eggs produced.

On our home farm two large flocks of White Leghorns and White Rocks have been laying well all winter and the hens are in a condition that many would consider as over-fat. We have been sending one or two cases a week of these eggs to a big hatchery and the incubator expert there reports close to 70% hatches

Day-Old Chicks, Ducks and Hatching Eggs

Any Quantity. Prompt Shipment. 10,000 Breeders. 100,000-Egg Capacity. 31 Years of Success. Largest Duck and Chicken Plant in the World. Best strains of

Rocks, Reds, Wyandottes and Leghorns; also Pekin and Indian Runner Ducks and W. Guineas.

Prices Low and Stock Right. Circulars Free. Cut Clover and Poultry Supplies.

NIAGARA FARM W. R. Curtiss Company RANSOMVILLE, N. Y.

Baby Chicks and Eggs of Quality

Do you want eggs that will hatch and chicks that will live from pure bred stock with plenty of size, true type and bred for heavy egg production? We are specialty breeders and exhibitors and not simply a hatchery. All eggs and chicks from same birds we raise our own winners. Barred, Buff, White, Partridge Rocks, White, Buff, Partridge, Silver Wyandottes, Buff, Black, White Orpingtons, S. and R. C. Reds, Light Brahmas, Black Langshans, S. C. White, Brown Leghorns, Silver, Golden Campines, Anconas, S. and R. C. Black Minorcas. Catalog with pictures, show records and prices free. Order at once for early chicks and eggs.

STERLING POULTRY COMPANY

Box 500

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SILVER

CAMPINES

GOLDEN

Eggs from the best blood lines in the world at half price. Our first three pens in each color are headed by Pan American winners. Breeders for sale cheap.

GENSEMER BROS.

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LOWER PRICES EACH WEEK

BEGINNING MAY 1ST we reduce every Leghorn chick $\frac{1}{2}$ cent each week—all other breeds $\frac{3}{4}$ cent each week. **EVERY WEEK A REDUCTION.** For example: Barred Rock chicks shipped during the week of May 29th will only cost you \$14.25 a hundred—5 weekly reductions of $\frac{3}{4}$ cent each from April prices.

Remember, these are actual reductions, made possible by greater hatchings of the famous, pure bred

PITTSFIELD

Day-Old Chicks

APRIL PRICES (From which to figure reductions)

	For 25	For 50	For 100
Barred Rocks.....	\$5.00	\$10.00	\$18.00
White Rocks.....	5.00	10.00	18.00
S. C. Rhode Island Reds.....	5.00	10.00	18.00
S. C. W. Leghorns.....	4.25	8.50	15.00
White Wyandottes.....	6.00	12.00	22.00

Get Your Order in Early

At these prices, pure bred Pittsfield Chicks are sure to go fast. Tell us the breed you want—how many—when to ship.

PITTSFIELD POULTRY FARMS CO., 190 MAIN ST., HOLLISTON, MASS.

Bred from Winners

ARE you ambitious to build up a real quality flock? Let us help you. Monmouth S. C. Buff Leghorns were awarded 1st Cock, 2nd Hen, 1st, 3rd and 4th Cockerel, 1st and 3rd Pullet and Best Display at Madison Square Garden 1915-16 Show. May and June hatched chicks from this superb strain will make winning birds at the fall shows.

S. C. BUFF LEGHORNS S. C. WHITE

"The Twentieth Century Dual Purpose Fowl"

Secure baby chicks from our carefully selected matings. You will be delighted when the healthy, husky little fellows are delivered right at your door by the expressman. Or, if you prefer hatching eggs, we pack carefully, ship promptly and guarantee 85 percent fertility.

Write at once for prices, Don't delay. Orders filled in rotation.

Wm. Stanley Hill, Owner
N. Y. Office: 103 Park Ave.

Monmouth Farms

John Lockwood, Supt.
Box 23, FRENEAU, N. J.

All Prize Winners and breeding stock must go. Including champions, first and second prize winners at Peoria, Springfield, Quincy, Canton and many other leading shows.

Golden Rod Buff Orpingtons

Annual Summer Sale. 50 to 75% discount. If you can use a few exhibition birds as breeders, write me. Eggs $\frac{1}{2}$ price after May 15th.

RICHARD M. SEWARD, R. R. 15, Lewistown, Ill.

Buff Orpington Eggs, $\frac{1}{2}$ Price

from now on. Eggs from my first prize winners at Chicago and other shows, for just half.

Send for a copy of the **BUFF ORPINGTON GUIDE BOOK**, gives prices on stock, eggs and chicks and gives much useful information on Buff Orpingtons.

THE FARM WITH NO DISSATISFIED CUSTOMERS

F. A. KAUP BUFF ORPINGTON FARM

Box K-1, GLEN ELLYN, ILL.

White Wyandotte Eggs

from Madison Square Garden and Boston winners. Sixteen years of careful breeding.

Send for prices. They will interest you.

THE WHITE WYANDOTTE POULTRY YARDS, H. J. W. Fay, Prop. WESTBOROUGH, MASS.

Special Prices balance of season for our S. C. W. Leghorns

BABY CHICKS AND EGGS

Our chicks are hatched from large pure white eggs from high average flock, insuring strong, vigorous chicks. Orders filled promptly. Chicks \$10 per 100. Eggs \$1 per 15.

ROOSEVELT POULTRY FARM, C. L. Roosevelt, Owner, Route 2, Chicago Heights, Ill.

SMITH'S SINGLE COMB BUFF LEGHORNS

The largest breeder of Buffs in the world. Winners at 15 of the largest shows, including Hagerstown, Chicago and the World's Fair at San Francisco in 1915. My birds are show color and type and bred to lay the year around. Eggs at $\frac{1}{2}$ price from May 15th on. Thousands of day-old chicks for sale, but no reduction in prices.

F. S. SMITH

Box C and D

HAMILTON, OHIO

as average from these eggs. At home we have found the fertility running about 92% and the hatches good, with the chicks strong and vigorous. We believe hens need to be reasonably fat in order to produce well.

We have two pens of fancy fowl shipped here this spring and quite thin on arrival and not yet as plump as we prefer them at this season. The matings are small, the birds are healthy and vigorous, the eggs show fairly good fertility, but the hatches are not nearly as good as those of eggs from our big flocks of quite fat fowls. We do not know the real reason why. But we believe that if we had handled those birds from egg to breeding pen they would be yielding us much better results.

It is possible, of course, that this correspondent was not sufficiently careful when saving eggs for hatching; tho we think it unlikely, as he is an experienced poultryman. Eggs intended for hatching will stand quite a good deal of chilling, but they will not stand much overheating. Overheat the eggs and you start incubation and weaken the germ. Hatching eggs should be kept where the temperature does not fall much below 40 degrees or go above 50 degrees F. Exposure for a number of hours to a temperature of 80 degrees or above, while keeping the eggs, is liable to ruin the chances of a hatch.

We would stop feeding moist mash to this flock, feed chiefly on cracked corn and whole oats. Would avoid bleached or sulphur-processed oats. Would feed cooked meat or a good meat scrap or fish scrap. If scrap is used would mix the fine ground scrap with bran, cornmeal and rolled oats, about equal parts, and use as a dry mash,—keeping it before the fowls. If eggs seem large and watery would feed greens daily but in limited quantity. Would supply plenty of ground raw bone and crushed oyster shells. Would give the birds a large sized outdoor run. The eggs should be taken good care of while saving and during incubation careful handling of machine and hens should be the rule. Fresh fish, well scalded, and fed daily or three times a week as meat food would be helpful.

If medicated drinking water is being used or ointments applied for lice, would discontinue such. It is always difficult to find out the cause when fertility or hatchability goes wrong and when cause is discoverable it can only be successfully sought out by one who is handling the birds.

"Soft-boiled Hatching Eggs."

Q. I bought some \$2 eggs of an Eastern breeder this season and got stung badly. Two of eggs were cracked when they arrived and when I opened them they looked as if they had been soft boiled or dipped in scalding water. I broke all the rest in the sitting and all but three were in same condition. What do you say to that for skinning a sucker?

Pacific Coast Reader.

A. Good friend, we don't believe that any breeder would intentionally sell you "soft-boiled eggs" for hatching purposes. We don't believe very much of all this nonsense about "crooks" and "skinning suckers." We have been identified with the poultry business for a good many years and know a great many fine, honorable and worth-while men and women engaged in poultry breeding. We never met but one "pretended" poultryman who made us ashamed of him and he

is more to be pitied for his folly than anything else.

Now, we ask you to remember that eggs are perishable and easily affected by heat. Express messengers are often very careless and very much rushed. You can bake eggs into such condition as you found your setting quite as easily as one could boil them. It is nearly five days express journey from that breeder's town to your own. At the season the eggs were shipped the steam pipes in express cars are apt to be quite hot. If the package remained for a sufficient length of time near to the steam pipes, the eggs or any part of the contents of the package might easily be heated and baked sufficiently to make the condition of the eggs such as you found them.

Don't be too hasty in assuming dishonesty on part of breeder or in making accusations of "skinning suckers." We don't believe that breeder ever boiled or scalded an egg before shipping same, but we do think that the eggs may easily have been partly baked during shipment, because of careless handling.

Rattling in Throat.

Q. What is wrong with our chickens? They are laying and seem to be in good health, then suddenly begin to breathe hard, next is a rattling noise in throat and they finally choke up and die. We cannot see what is wrong with their throats, no swelling, no inflammation, no cankers, some have warm feet and some cold feet. It does not seem like common colds but all affected breathe very hard on least exertion. Most of

them eat hearty. Cock birds crow and then rattle quite loud, some of them have their throats filled with a clear but slimy substance.

F. C. K.

Charles City, Iowa.

A. Catarrhal troubles showing these symptoms are sometimes infectious and quite frequently appear to be associated with disordered digestion. We would give each affected bird, morning and night, a tablet representing 1/1000 of a grain of arsenite of antimony. Get the birds into open-front quarters and keep houses open day and night. Feed only on hard grains with abundant greens. Clean up and disinfect the poultry houses. Make sure that the feeding grain is clean, free from dust, mould or mustiness and do not feed any spoiled food of any sort. See that litter is clean, dry and free from mould or mustiness.

Chicken Troubles.

Q. I took from my incubator a hatch of 80 chicks. These chicks were fed on chick food three times daily and kept in a brooder in an unoccupied room in our house. Not a chick was lost until they were seven days old, then in about 36 hours I lost 20 of them. They have no diarrhoea, their wings droop, no appetite, will not eat at all and seem cold all the time. After death the crop is empty and no chick seems to live more than 24 hours after taking sick. Do you think this is indigestion or is it bowel disease? Do you think it was caused by going from warm air of brooder to cool air of room? Did I make a mistake

in keeping 80 chicks together? I have no thermometer in brooder, is it necessary to get one? Do you think the feeding was all right? Some poultrymen about here have advised me not to allow the chicks water for first week, would you do this?

R. E. M.

Buena Vista, O.

A. Yours is the usual experience of a novice attempting to raise chicks indoors in a room in a dwelling. Too much confinement, bad air, and indigestion is cause of your loss. There are no symptoms of "bowel trouble." You fed too heavily, kept the chicks too warm and they did not get enough fresh air. Better use a thermometer in your brooder until you are more experienced. You would do better with an outdoor brooder. Eighty chicks can be brooded in one flock all right if brooder is large enough; with colony brooders of coal-heated type 300 do nicely in one flock. But you must have a cool—practically out-door—exercise room. Would try the next broods in an outdoor brooder and get them out on ground before they are a week old, don't let them get chilled by huddling outside the hover. While you can raise fine chicks by keeping food before them all the time; if you attempt regular feeding it should be done regularly and you should not feed too much at one time and not over four times a day. Chicks are more apt to stuff themselves if hand fed than when food is kept before them. When chicks get in shape yours are in, you can't hope to do much for them, they are too far gone. For the first week we like to feed rolled

May and June are Banner Hatching Months

Records show that 75% of all winning Show Birds and valuable Breeders are hatched during these months. Best of all, you can purchase hatching eggs from famous Wilburtha strains at prices that mean a substantial saving. "Wilburtha" means quality, plus. Our S. C. White Leghorns

have won during the past five years 103 out of 132 possible first prizes at the leading Shows. And our other varieties are bred to the same standard. We offer hatching eggs and baby chicks from carefully selected pens of the following breeds:

S. C. White Leghorns
S. C. Buff Leghorns

Columbian Wyandottes
Columbian Plymouth Rocks

White Plymouth Rocks
S. C. Rhode Island Reds

Hatching Eggs at Reduced Prices

Hatching Eggs from exhibition matings	15 eggs - \$5	30 eggs - \$9
Utility eggs, all varieties	100 eggs - \$6	

We guarantee 90 per cent fertility. You take no chances with Wilburtha eggs.

Baby chicks, exhibition and utility strains. Prices on request.

Orders filled in rotation. Don't delay. Send your order now.

Wilburtha
POULTRY FARMS

Chas. J. Fisk, Owner

M. L. Chapman, Gen'l M'g'r

D. G. Keyler, Sup't

27 River Road

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New Jersey



You Don't Need to Have a Hundred or a Thousand of PARKS' Bred-to-and Do-Lay BARRED PLYMOUTH ROCKS to Get a few Great Layers.

Mrs. Lloyd, Kirkwood, Mo., writes: "My pen of Rocks, No. 69, (holding third place) in Missouri Laying Contest, are bred from the two settings of eggs from you in 1914, etc., (100 pens in contest)."

Don't forget that it was a Parks Strain that outlayed all other breeds in last Missouri Contest. Averaging more eggs than the famous English strain did in either Missouri or Storrs Contests. The year previous, a Parks Strain pen finished second, and four years ago Miss Adams' pen, my strain, made laying history, and, better still, they have led in winter month laying in a number of contests; that's where breeding tells and laying counts when eggs are 50 and 60c a doz. They are the Oldest and Greatest Laying strain today. With individual records up to 290 eggs. Continuous laying up to 143 eggs. Small flock averages to 242 eggs, and, best of all, large flock averages up to 298 eggs for 126 birds. They are bred everywhere. Commended by Curtis, Woods, Schwab, Platt, Denny, Prof. Morrison and others. Show winners in five states.

SELECTED EGGS, \$5 per 15, \$8 per 30, \$11 per 50, \$20 per 100. SELECTED UTILITY EGGS, \$2 per 13, \$6 per 50, \$12 per 100.

EGGS AND CHICKS in limited numbers. Let the other fellow have the big orders, but remember us for Quality. Eggs and choice lot of breeders at reduced prices after May 15th. Egg and Chick Circular Free. 40-page catalog, a dime.



J. W. PARKS

Box J

ALTOONA, PENNA.

The
**Rawnsley-Shields
Poultry Farm**
COLUMBUS - OHIO

Reduces the prices *one-half*
on all eggs from their

**S. C. Buff Orpingtons
and Speckled Sussex**

Book your orders as soon as possible, as we will have only a limited quantity. A rare opportunity to start a flock, or improve your blood lines from the largest winners at the two Premier Shows of America, both East and West, this season. Note the record:

SPECKLED SUSSEX
Madison Sq. Garden, N. Y.

1-3 Cock 2-3 Pullet
1-2 Hen 1-2 Pen
1-3 Cockerel
Special: Best Display.

**Chicago Coliseum
Sussex Club Show**

1-2 Cockerel 2-5 Hen
1-2 Pullet 1 Old Pen
2-4 Cock 2-4 Young Pen
Cups for Champion Male, Female and Best Display.

S. C. Buff Orpingtons
Chicago Coliseum
Club Show

1st Cockerel President's Cup Best
1st Hen Display
1st Pullet Cup Best Colored
5th Cock Male
1-3-5 Old Pen Cup Best 3 Old Pens
1-2 Young Pen Cup Best 3 Young Pens

Did not show Buffs at Madison Square, on account of Mr. Rawnsley judging that variety.
Write for Mating List.

THE RAWNSLEY-SHIELDS POULTRY FARM
5173 N. High St. Columbus, Ohio



Baby Chicks at reduced prices for May of 4 varieties from free range utility stock.

	Per 25	per 50	per 100
B. P. Rocks.....	\$2.75	\$5.50	\$10.00
S. C. W. Leghorns.....	2.25	4.25	8.00
S. C. Brown Leghorns.....	2.25	4.25	8.00
R. C. Brown Leghorns.....	2.25	4.25	8.00
Broiler Chicks.....	2.00	3.75	7.00

Send order today with certified check or money order. Guarantee safe delivery and full count. Write for free catalog and mention A. P. J.
FRANK BLUM, Dept. A, R. R. 2, New Washington, O.

**SUSS-X RED
SPECKLED**

No birds for sale—but can supply a limited number of hatching eggs from Chicago and Detroit Round Up Show. Prize winners at reasonable prices.

L. C. BRACKETT, Mgr. Just-Plucked Egg Farms Co.
Hopkins, Michigan

oats and cracker crumbs rubbed up with hard boiled egg and alternate this with chick food mixed with an equal part of rolled oats. Litter the brooder with cut clover. Air out brooder often and do not chill or overheat the chicks; just keep them comfortable. Get them out for part of day in a small runway just as soon as you can teach them the way in and out of brooder. Do not feed stale, musty or mouldy chicks food. If you cannot get good chick food; get sound wheat, corn, oats and barley equal parts and grind them to chick size in a hand mill and add a little rolled oats to this. Chicks are easily put out of condition and spoiled or stale chick food kills a good many chicks. If chicks must be grown indoors, keep the room well aired, give them a well sanded run, and see that they have a good sod to scratch over or give them a small box of sprouted oats to scratch over and see that these greens are fresh daily. Raw potato for them to pick at is also a help. Keep their brooder clean, keep it well aired and well sunned and do not confine the chicks too closely. Also do not leave them long alone until you have trained them to use the brooder and to go to the hover to warm up. Start the chicks right and keep them comfortable under reasonably good growing conditions and you will not have much trouble with them. Give clean, cool, drinking water from the start.

Diarrhoea in Chicks.

Q. I have some Rhode Island Red chicks from strong, healthy stock. On account of cold weather I thought it necessary to keep them in the cellar near the furnace where the sun comes in through a window. Since the warm weather has come they are in the brooder house, where they get all the sun and air they want. I have been hatching since the last of January and feed them on commercial chick food, fed in dry dirt put inside of brooders. When two weeks old they have the morning chick feed and then about 10 o'clock some chopped raw potatoes and steamed alfalfa mixed with wheat bran until dry. A dry mash in afternoon made up of equal parts by measure of wheat middlings, bran, corn meal, oatmeal with a little bone and charcoal added. When from three to four weeks old they begin to have diarrhoea. I don't know how to doctor them and am having a good deal of trouble.
R. W. H.
West Medway, Mass.

A. Diarrhoea is probably result of indigestion. Would cut out the steamed alfalfa. Instead give them a small box of fresh sprouted oats daily for them to scratch over. Remove all oats left each afternoon. Keep charcoal before the chicks all the time. If diarrhoea is troublesome, stop all food for a day or two and give only scalded sweet milk thickened with boiled flour and seasoned with a little nutmeg. In returning to regular ration do not feed too heavily.

Comb Picking.

Q. (1) I notice among my adult White Leghorns that they pick one's head and comb until it bleeds and then all chase her and pick the bloody head. I have removed the birds as they are attacked from time to time, but they seem to keep right on picking. I have plenty of good fresh meat before them all the while. What do you think is the cause and can you suggest any relief?

**UNIVERSAL
Knotless
Poultry Houses**

Can be bought, complete for less money than the material alone would cost. Sold on a money back guarantee.

Send for illustrated booklet.

L. E. LEGG, Coldwater, Mich.



**Hatching
Eggs
at 1/2 Price**

Beginning May 1st, our regular prices for S. C. White Leghorn and White Rock Hatching Eggs will be reduced one-half. Regular \$10 setting from best pens now \$5. Send for MATING LIST.

1st Cock, New York State Fair, 1914

Utility S. C. White Leghorn Hatching Eggs, now \$5 per 100.

Rancocas Poultry Farms
Box 638 Browns Mills, N. J.

Grand Reduction Sale

My farm is to be cut up for building purposes and I am forced to sell most of my

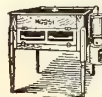
Woodcrest

Partridge Wyandottes

at once. Prices cut in halves. 20 yearling Males, \$10 each. 200 yearling Hens, \$2.50 each.

Order from this ad. and get double value. My loss is your gain.

CHAS. H. WOOD
Mutual Bldg. Worcester, Mass.



POULTRY SECRETS

Valuable 130-page Data-Book Facts on lowering death-rate, getting 100 per cent hatches, highest prices, etc.

Illustrates improved incubators. Write today.
MODEL INCUBATOR CO., 2 Henry St., Buffalo, N. Y.
Also 39 Barclay St., New York City

Taylor's W. Wyandottes

Eggs for hatching and day old Chicks. Embden Geese Eggs. Mating list free.

GEORGE TAYLOR
Route 11, Box 30 Urbana, Ill.

S. and R. C. REDS

Eggs for Hatching

\$3.50 per 15. Also stock for sale.
W. A. McCONNELL - Richmond, Ill.

Pagel's Poultry Supplies

Sanitary non-freezing fountains. No lamps. Write for circular.

F. PAGEL Box 123 Rockford, Ill.

A. (1) Cause is probably idleness and too close confinement. You will probably find one or two ringleaders in the flock that start the trouble. Seek them out and get rid of them. Give more yard room. Provide litter to scratch in. Do not crowd the birds. An ointment made of powdered aloes one teaspoonful well rubbed into an ounce of lard and applied to heads of picked birds will help to discourage picking.

Q. (2) Last year in my last hatch the chicks developed a bad case of white diarrhoea. I kept it away from old birds. I have thoroughly sprayed the colony house with disinfectant and scrubbed the incubator out with lye water. Do you think it is safe to use the incubator and brood in same coop? What further disinfection is necessary? North Chili, N. Y. E. T. S.

A. (2) We use a strong solution of pyrocarbol or creolin to wash out incubators. For colony coop use a good lime wash or some good disinfecting cold water paint. If disinfection is thorough, we do not believe you will have trouble.

Partnership and Other Questions.

Q. (1) I am a young man and have two years' experience in raising and keeping laying stock. Have been successful and I believe poultry is my life work. There is a lady who asked me to come to her farm and build up a poultry plant and be the manager. Neither of us have an idea what kind of a trade we should make. She has the land, two incubators (total capacity 390 eggs) and three brooders (capacity 50 chicks each) and one laying house in bad repair (value about \$40). She is willing to do part of the hatching and I am to do the rest of the work. I have two incubators (total capacity 150) and eight brooders (total capacity 400). What part of the profit should she have, if I pay half the expenses and she furnishes me with board and room? She furnishes the land and I do all the work.

A. (1) We don't like partnerships of that sort in poultry work, as they seldom work out well. As you state the case it would probably be fair if you were both to share equally in the profits.

Q. (2) What kind of a trade would you advise us to make?

A. (2) That is a pretty tall order for us as we do not know either of you or the conditions. You might turn in your equipment on a written agreement as a loan for say one year, to be purchased by the owner of the farm at a stipulated price at end of year in case partnership proves satisfactory. We would suggest that the farm owner pay you a small salary per month in addition to your board and room, that she pay the expenses of the farm for the year of your agreement, that she receive three-fourths and yourself one-fourth of any net profits that may be made during the first year of partnership. At the end of twelve months you will both have a better understanding of the situation and you will be in a position to know what you want to do about going on with the work and what terms will be best for a partnership agreement for a longer period. Whatever you do put your agreement in writing, in duplicate, and each keep a copy.

Q. (3) Do White Orpington eggs hatch brown or black chicks very often?

A. (3) White Orpington chicks when just hatched may be smoky gray in



Get Two Eggs Now Where You Got One Before

Every hen you own should to be laying an egg a day, **NOW**. May is one of the best months in the year for eggs.

Climatic conditions are at their best and with the **RIGHT FEED** and the right fowls, you should be getting **TWO EGGS WHERE YOU GOT ONLY ONE BEFORE**.

By that we mean, getting double the number of eggs over ordinary, old fashioned feeding methods.

Give your flock a little more attention—more care in selecting the feed you feed, housing, watering, etc., — all of these are necessary to get **BIG EGG YIELDS**.

Cull out the broody hens—the few eggs they lay during summer won't pay for their feed the rest of the year.

Cull out the early moulters—they are idle so long that the eggs they lay won't pay for feed and care.

Now, with a flock of vigorous, active birds and a feed like

SCHUMACHER Scratch Grains



you have the necessary combination for big egg yields. Separate your flock as suggested above and then try this feeding plan for say 30 days. The test won't cost you any more, if as much as the feed you are now using and we know you will be more than pleased with results.

In the morning, feed five or six quarts of Schumacher Scratch Grains to each 100 hens. Scatter it in deep litter to furnish exercise for your hens. At noon give them three or four quarts of sprouted oats (dry) and keep Schumacher Mash Feed in the hopper all the time. At night give them ten to twelve quarts of Schumacher Scratch Grains. Don't let them go to roost hungry. See that they

have plenty of fresh water—eggs, you know, are 60% water. Give them proper housing; keep them in lice-free, sanitary quarters and you will soon **double your egg yield**.

SCHUMACHER Little Chick Feed (Contains Oatmeal)

is the most ideal feed for baby chicks you can buy. Our feed experts have worked a long time to produce a feed which will agree with the sensitive baby chick digestion, thereby overcoming the heavy loss and at the same time make fast, big, strong, healthy growth. Big poultry raisers say it has no equal. It will pay you to try it. Our feeds are sold by most dealers. If yours can't supply you, write us.

The Quaker Oats Company
Address Chicago, U. S. A.



Semi-Solid Buttermilk Makes Chickens Grow Makes Hens Lay

FED Semi-Solid Buttermilk. It is ordinary buttermilk with 84 pounds of water extracted from each 100 pounds of buttermilk leaving 16 pounds or 98 per cent digestible flesh builder. The character of the buttermilk is in no way changed. Our exclusive process leaves it the same in quality as the fresh buttermilk. All food values retained. Extremely nutritious. Tones up the system without the use of medicine of any kind. Reduces the death rate. Cuts your feed bill. Increases your profits.

BUTTERMILK

Semi-Solid Buttermilk makes hens lay more eggs. Saves the lives of the little chicks. Keeps the bowels regulated and in fact keeps them in a state of perfect health which other feeds fail to do. High in protein (milk sugar) carbo-hydrates, lactic acid, salts and fat. The ideal feed.

Use no fish or meat scraps when feeding Semi-Solid Buttermilk. Lactic acid creates appetite, extracts the food value from other grains, promotes digestion and assimilation and wards off many poultry diseases.

"135 chicks fed on this and have only lost one, and the chicks were the weakest lot I have ever had in my sixteen years experience from an incubator. But they are growing like weeds on rich soil in wet weather, and look as slick as young rabbits."

Cleveland, Tenn.

A. J. LAWSON.

Send for a supply at the following low prices: 100 lbs. for \$3.50; 200 lbs. for \$6.00; 500 lbs. for \$12.50, F. O. B. Lincoln, Nebraska.

CONSOLIDATED PRODUCTS CO., 1029 W. Adams St., Dept. 3949, Chicago, Ill.

Make Your Chicks Grow Faster

They will come on faster and thrive if you give them plenty of clean, fresh water and proper feed. Use Oakes appliances and save money by avoiding waste. **OAKES POULTRY SPECIALTIES**—"Standard of the World"—are best that practical experience and honest manufacturing can produce. Twenty-five years in the business gives us the "know how."

Automatic Fountain and Chicken Feeder

Feeds water, grain, grit, etc., automatically. Easy to fill and operate. Fits any Mason jar, which you supply.

Price 10c each or 3 for 25c. Weight 6 oz each.

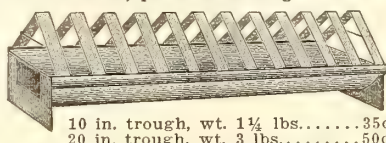


Order today from nearest office. Large catalog free.

OAKES MFG. CO.
Dept. B Tipton, Ind.
EASTERN STORE:
Dept. B, 64 Cliff Street
New York City

Galvanized Chick Feed Troughs

Very convenient and economical for feeding flocks. Bottom made on half circle. No feed wasted. Removable grate keeps chicks out of feed; prevents fouling.



10 in. trough, wt. 1 1/4 lbs. 35c
20 in. trough, wt. 3 lbs. 50c



YOUR CASTLE IN THE AIR

"That thought of a blue ribbon winner, at the show, where a ribbon is really worth while." This will become a reality if you have

Hubbard's Peerless S. C. Buff Orpingtons

Here is but one of the many cases that go towards making my birds what they really are, "The Peerless."

From a setting of eggs sold last year there developed one of the 1st prize males at Madison Square, 1916. Our mating list tells the story, it is free. If you order during May, will make you half prices on eggs.

C. H. HUBBARD, Mgr., FOXHURST FARM, Box 52, LIME ROCK, CONN.

HUBBARD'S POULTRY SECRETS

SPECIAL OFFER
To place this book in the hands of breeders of Poultry, I will mail it free of charge to any address. After reading it if you do not find it is worth many times the price asked you may return it at my expense.
PRICE, \$2.50

SYCAMORE FARM

Breeders of Thoroughbred Single Comb Rhode Island Reds.

Baby Chicks. Hatching Eggs.

E. P. USHER, Jr., Mgr. Box 7 Grafton, Mass.

WINNER OF EVERY FIRST PRIZE Champion Male Champion Female

Panama-Pacific International Exposition, San Francisco, November, 1915.

SINGLE COMB WHITE LEGHORNS

Exhibition, Breeding and Foundation stock. Hatching Eggs at half price from June 1st to July 1st. Write for free catalog and mating list.

RANCHO DEL MARTINO - Mrs. E. B. Martin - Downey, California

Red and Speckled Sussex and Buff Faverolles

30 Eggs for \$5.00 AUG. D. ARNOLD, Box 77. Dillsburg, Pa.

MINORCAS Giant S. C. BLACKS

Chicago, Cleveland, Pittsburgh and Indianapolis winners in my pens. Eggs at greatly reduced prices the next thirty days. Send for present day mating list.

JOHN L. BROWN 1515 W. 7th St. ANDERSON, IND.

color or may be canary yellow with parts of down almost brown. Nearly all white fowls throw chicks that are other than white but these chicks usually—the smoky ones almost always—show a good white when feathered.

Q. (4) How should this be explained to the customer?

A. (4) Simply state the facts, you know what the chicks from your stock look like when hatched. You also should know how they develop. Simply describe things as they are. If you are continually crossing strains and "introducing new blood" then the off-colored chicks may not develop into good specimens and in such case you should not be selling hatching eggs.

Q. (5) What is the breeder to do in a case of this kind? R. W. F. Richmond, Ky.

A. (5) If you are breeding pure bred stock, know how to breed it and are breeding in line; you should know the appearance of your chicks when hatched and know how they develop. White fowl bred white and line bred will breed chicks that will—most of them—develop into white specimens—the quality will depend on the stock you are breeding and the experience you possess as a breeder. Until you know what you are breeding and what it will produce you should not attempt to sell breeding stock and eggs for hatching unless simply for utility laying stock at prices of ordinary laying stock. If you cross strains you will get off-colored specimens in most cases. Knowing your stock you should be able to tell your customer what to expect. If he is dissatisfied it is up to you to try to make an adjustment satisfactory to him. It is not reasonable for any customer to expect the chicks from any given lot of eggs to be all of superior quality, but most of them are lead to expect too much. Sell only stock and eggs you believe to be good value for the price asked. When a customer is dissatisfied explain the facts to him, let him see that you desire to give him a square deal and explain that every chick hatched cannot be expected to be a "crackerjack" and that if specimens free from defects were as common as some would have us believe, we should see more of them and the prices would not be so high. But whatever you do, be courteous and do your level best to please and satisfy the customer, even if you do think he is unreasonable.

It is our opinion, however, that a young man with only two years' experience should get more experience before he sets up in business of selling breeding stock and eggs for hatching and that it would be well for him to devote himself to producing good market poultry and eggs at first, with a pen or two of good pure bred stock to line breed and pedigree, develop and exhibit, until he gets more experience and can show results as a breeder.

Preserving Eggs.

Q. I want to preserve my summer eggs for fall sales. I read and am told by some that eggs packed in salt will keep them for several months. Can you recommend this way? How should eggs be preserved? Would like a sure method that is not too expensive. Island, Ky. W. D. E.

A. The salt pack method is seldom very satisfactory. The best method of preserving eggs is the "water-glass method" and nearly all supply houses

and drug stores sell water-glass with complete directions for use. Use only fresh laid, clean eggs. If possible have them from fowls that are not running with a male. See following from Woods' "Poultryman's Formulary."

Sodium Silicate (water-glass syrup)...1 quart
Boiled Water.....9 quarts
Mix. When solution is cool, it is ready to use. Eggs should be packed in stone or glass jars, galvanized iron tanks, clean wooden kegs or other clean containers that are easy to handle and can be kept well covered. Pack eggs in layers, small end down. Pour over them dilute water-glass solution until it stands two or three inches above the topmost layer of eggs. Cover container and set in cold place until eggs are wanted for use. This solution will keep eggs in quite good condition for from six to ten months. Preserved eggs intended for boiling should have the large end pierced with a darning needle before cooking to prevent bursting of egg. Water-glass syrup may be had of your druggist at a cost of about 65 cents to \$1.00 per gallon.

Cholera?

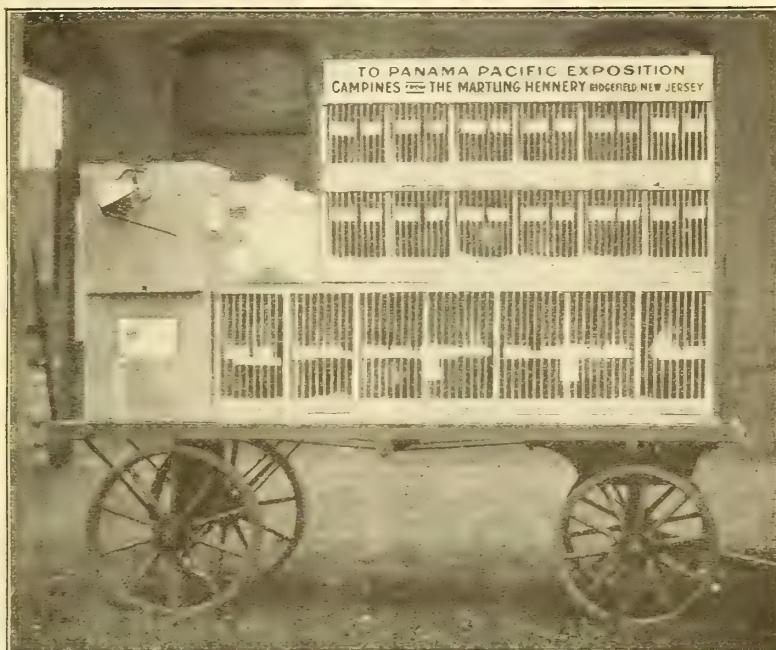
Q. Can you inform me as to what can be done to prevent cholera? I have been bothered with same for several months. I killed off several of my pullets that I thought were infected, in order to prevent the disease from going any further. I cleaned their quarters thoroughly and disinfected with crude carbolic acid. I am very careful how and what I feed. The feathers around vent in half the flock are soiled with droppings. They seem to be happy and lay well. I value the hens highly and would like to save them. They have free range when weather permits.
Creston, S. D.

R. F.

A. We do not believe that the diarrhoea is cholera. If it is cholera the only sure way to get rid of it is to dispose of all birds affected and thoroughly

clean up and disinfect the premises. Think it more likely that your birds have a more or less chronic diarrhoea which results from methods of feeding

is fed. Give plenty of charcoal. Add to dry mash of middlings, low grade flour, corn meal and rolled oats, a teaspoonful of flowers or sulphur to each quart



The shipment of Campines to the Panama-Pacific Exposition poultry show, made by the Martling Hennerly, Ridgefield, N. J.

or from something they get on range. Investigate food carefully. Stop feeding moist mash for present. Be sure that no spoiled food or poor meat food

of mash. Use alternate weeks for about a month. Too much coarse alfalfa in mash sometimes causes a greenish diarrhoea.

Shoemaker Poultry Farm

Freeport Illinois

Established Over 26 Years

QUALITY TELLS

The 44 prizes on 54 entries which we won at the Chicago Coliseum Show, Chicago, December, 1915, in competition with the world, proves conclusively the wonderful quality of the fowls bred at the

Shoemaker Poultry Farm

If you want to raise this quality of birds, buy your eggs for hatching now from this Great Poultry Farm at the following prices: Black Langshans, Barred, Buff and White Plymouth Rocks, Silver and White Wyandottes, S. C. Black Minorcas, S. C. Brown and White Leghorns, R. C. Brown and White Leghorns, Buff Leghorns, \$2.00 per 13; \$2.50 per 26; \$5.00 per 39. Light Brahmas, Partridge Cochins, S. C. R. I. Reds, Buff Orpingtons, B. B. Red Games, Golden, Buff, Partridge and Columbian Wyandottes, Houdans, R. C. Black Minorcas, White Minorcas, Silver Spangled Hamburgs, Mottled Anconas, Buff Cochins and Golden Sebright Bantams, \$2.50 per 13; \$4.50 per 26; \$6.00 per 39. R. C. R. I. Reds, Black Javas, Dark Cornish, Red Caps, Blue Andalusians, White Faced Black Spanish, \$2.75 per 13; \$5.00 per 26; \$7.00 per 39. Dark Brahmas, Buff Cochins, White Orpingtons, Black Wyandottes, White Crested Black Polish, \$3.00 per 13. Black Sumatra Games, \$5.00 per 13; \$6.50 per 26; \$9.50 per 39. Buff Langshans, Brown Red Games, \$4.00 per 13. Pit Games and Red Fyle Games, \$5.00 per 13; \$6.50 per 26; \$9.50 per 39. Brown Red Games, \$4.00 per 13. Mammoth Turkeys, \$5.00 per 9; \$9.00 per 13; \$13.00 per 27. Toulouse Geese, \$2.75 per 7. Embden Geese, \$3.00 per 7. Imperial Pekin and Rouen Ducks, \$2.00 per 11; \$3.50 per 22; \$5.00 per 33. Indian Runner Ducks, \$2.50 per 11; \$4.50 per 22; \$6.00 per 33.

Buy These Eggs and Hatch Them on Your Own Place. Hatch the Chickens and Win Poultry Success.

Don't Waste Your Money on Baby Chicks

You are almost sure to be disappointed in the outcome if you do, both in number and in the quality of the birds you do succeed in raising. It has recently been discovered that many of the large and widely advertised Baby Chick Hatcheries buy the eggs they hatch the chicks from at 20c to 25c per dozen from farmers' flocks. Also, the hardships through which these poor innocents

must pass in shipping is almost sure to injure them so they can never mature into serviceable breeding birds. We repeat,

BUY SHOEMAKER FARM EGGS

from our high class flocks and hatch the chicks on your own farm. Order today, right from this advertisement.

Send for Our 1916 Book of Poultry

It is not like an ordinary catalog, but a big 200-page text book on poultry breeding in all its branches; no other breeder in the country issues one like it. Write for it today, enclosing 15 cents; or free, if you ask for the book when ordering eggs.

GLOBE INCUBATORS and BROODERS

are the best machines on the market today and we are willing to prove it. Write me today.

C. C. SHOEMAKER

Box 605

FREEPORT, ILLINOIS

"SEE THIS HANDSOME S·C·WHITE LEGHORN



At the Head of
Pen No. 1

This male was pronounced by leading judges to be one of the best specimens of the breed ever shown. He is mated with eight females that come as near Standard requirements as it is possible to breed them. I am sure this mating will produce winners for any show. Great bargain sale of yearling hens. Many of our best breeders at \$2.00 each. Order from this ad.



Hatch Your Prize Winners Now

A limited number of eggs for sale from this pen. I guarantee every egg fertile or replace them free of charge. Many other pens mated that contain the greatest blood lines in America. Send for my

32-Page Illustrated Catalog—IT'S FREE

Prices most reasonable, quality considered. My positive guarantee—satisfaction or money returned—is back of every sale. Eggs for hatching; stock; day-old chicks. Write me today.

F. D. ROGERS, Leghorn Specialist

Formerly of Rogers & Muntz

Douglas Road, ELGIN, ILL.

OUT OF THE EAST.

By P. K. WHITE.

The real successful breeders are the ones who advertise. It is a case of "get in line" or get out.

Spent two very enjoyable days at Lime Rock, Conn., a guest of R. N. Barnum, Foxhurst Farm, and Chas. Hubbard, of Hubbard's Buff Orpington Farm. If I failed to express my appreciation, here it is now.

Many breeders consider advertising as an expense. This is all wrong. The right kind of advertising is a dividend payer.

While in Meriden, Conn., the other day, I called on Mr. Frier, of Frier & Lukins. He is not an advertiser in our journal, but he made mention of something that I am going to repeat for our advertisers benefit. Here it is: "Mr.



One of the deep colored bred-to-lay hens in the 1916 breeding pen B, owned by Muskadosa Stock Farm, Box 132, Pembine, Wis.

White, the AMERICAN POULTRY JOURNAL is entitled to the support of every breeder in the country, for you treat everyone alike and give a complete list of awards of the shows. This is as it should be, and I am doing my part in boosting your journal by making it a practice when I buy anything, it is from someone who advertises in the AMERICAN POULTRY JOURNAL.

Hitching your wagon to a star, means advertising in the AMERICAN POULTRY JOURNAL. The journal that is authoritative and safe.

After five years of hard work, Paul P. Ives, of Guilford, Conn., will in the early fall announce a new variety. It is a fowl that we feel sure will take.

When you're around, they toast you; when absent, they roast you. 'Twas ever thus.

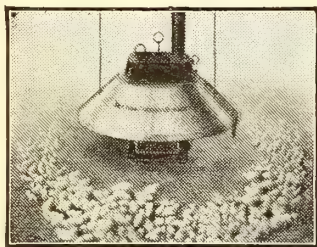
I see that Harlo J. Fiske, like the Arab, has folded his tent and left our midst for new fields.

Rumor has it that W. H. Saart, of Mirimichi Poultry Farm, Foxboro, Mass., will be the next mayor of Attleboro. 'Tis a good pick, say we.

A stork may be all right to look upon, but give me a chicken for a Sunday dinner.

Talk about cold weather? The day I called at Sunset Poultry Farm, Olneyville, R. I., it was so cold that all I could

Hill Colony Brooder, \$30; Magic Brooder, \$15



The highest grade and most efficient brooders in America. It is impossible to succeed raising poultry without Dependable Brooders. Your success is hinged on the brooder, consequently it is to your advantage to buy the best. Our Brooders will positively hold the fire, never leak gas and maintain an even temperature without looking after same in the middle of the night.

We have brooders in stock and can ship on receipt of order. Send for booklet describing the world's greatest brooders.

UNITED BROODER CO., - TRENTON, N. J.



Record 223 Eggs

Trapnested R. & S. C. Reds

Stock from profitable layers is your only guarantee for success in the poultry business. Ask the man who has failed. Our birds are trap-nested and bred to lay and are headed by splendid large, vigorous pedigree red to the bone males, and will undoubtedly produce stock that will put the lay in any flock. Our mating list, giving egg offerings, and describing these, also special pens, combining non-broodiness, high record, and rich red color, will be sent upon request. Write for your copy today.

Muskadosa Stock Farm

Box 132

Pembine, Wis.

do was use the sign language in talking to Mr. Seigel.

We cannot command success, but we can coax it our way by advertising.

Why is everybody shouting for a larger standing army? Why not give 'em seats?

Have a letter informing me that John Spencer, formerly with Schenley Heights Farm, has started a farm of his own at Sharpsville, Pa. Good luck to you, John!

A very uncommon feature of the farm of S. G. McLean, South Glastonbury, Conn., is a setting house. It is built adjoining the exhibition house and granary. It is 40 feet long and 6 feet wide, partitioned into a double row of ten nests.

Chas. H. Wood, whose farm is just outside of Worcester, Mass., has recently plotted a tract of land adjacent to his farm and is building several beautiful homes.

On account of his growing business, Otto J. Eberle, of Pittsburgh, Penn., has just purchased a ten-acre farm in the suburbs of Pittsburgh and will move his plant about May 15th.

Twenty years ago, with but few exceptions, patent medicine people were the only ones who appreciated the power

of advertising. Today it is as hard to find a man who doesn't believe in advertising as it is to find an American man or woman who does not read a newspaper.

Advertising is the atmosphere in which modern business lives. You, our readers, will find that it pays to read the advertisements in our journal and it pays to buy stock, eggs and appliances from people who advertise. If you have anything to buy, see that your purchase is made from an advertiser; for, bear in mind, his or her success is based on satisfying you.

WARNING!

In the March issue of AMERICAN POULTRY JOURNAL, on page 562, appeared the advertising of Meade Mather, Saratoga Springs, New York, who was advertising S. C. Anconas. Altho we had a yearly order for this advertising, no advertising was inserted in our April issue, for the reason we could not get a satisfactory report on this party; but recently evidence has been placed in our hands that convinces us this party is not one whom we can recommend, and would advise our subscribers who contemplate investing in Anconas to deal with some one who has an established reputation and one who does not steal other breeders' illustrations and make claims that are absurd and unreasonable.

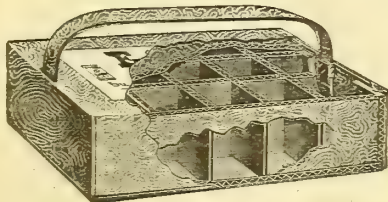
MALAY AND SUMATRA GAMES.

ROBERT H. ROBERTS, Sheboygan, Wis.

THE Malay fowl is one of the oldest breeds in existence, but has not been bred very extensively of recent years. First, on account of the high price of the few really pure bred Malays left in the hands of the true lovers of the breed and secondly the average breeder and fancier has spent no time to dig into the history of any breed and knows



Malay Game cock, first at Chicago, Jan., 1916.



Here's the ideal box for shipping eggs for hatching—

The Eyrie Egg Box Sefton's

There are several interesting features of this box, for instance:

It's made of tough durable paper and every partition is lined with double faced corrugated board, top, bottom and sides.

The wooden handle automatically locks the box; it can't be opened or tampered with.

The partitions are so strong that the box will support an actual weight of over 1000 pounds

The box is attractively printed—space for everything; it's a neat, economical, serviceable box. For express only; not for parcel post.

Ask your paper jobber.

The Sefton Manufacturing Co.

1329 W. 35th Street

Chicago, Illinois

LEST YOU FORGET

The 8th Annual Exhibition of the Great Mid-West Poultry and Pet Stock Association will be held

In the Coliseum Building, Chicago, Dec. 13, 14, 15, 16, 17, 18, 1916

Our Record: Seven of the greatest shows ever caged in America.

Premium list November 1st. Entries close November 25th. Don't fail to register for copy of list. Your name on a card will do.

THEO. HEWES, Secy., 25 West Washington Street, Indianapolis, Ind.

The great, big bargain sale of the year. Eggs, stock (even most of my own breeding birds)—all half price.

I guarantee complete satisfaction or your money back. If you want something at half price, write today.

W. D. Holterman, Fancier

HALF PRICE

SALE

ARISTOCRAT BARRED ROCKS

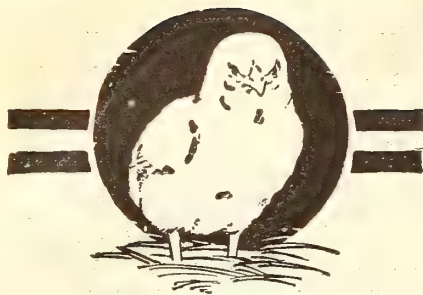
Box A, Fort Wayne, Ind.

BUFF ORPINGTONS

Special Sale of Breeders May 15th

We are about through hatching for this season and must have more room for our early chicks, therefore will sell a limited number of our breeders at less than half price. Sales list ready May 10th. Write for one.

O. M. ABBOTT, Box 10, Whiteland, Ind.



Will you spend a few cents to keep the chicks alive?

EVERY chick that dies cuts down profits. Is it any wonder that wise poultrymen insist on a feed which keeps the chicks alive, without fuss and without uncertainty?

That feed is H-O Steam-Cooked Chick Feed. Prepared from selected cut grains, it builds flesh and bone from the start. Being steam-cooked, it is exceptionally digestible and nourishing. It is the ideal feed for chicks from three days till the chicks get their growth.

N. Y. State Bulletin No. 404 shows that

H-O Steam-Cooked Chick Feed

is above our guarantee in protein, and below the maximum allowed for fibre.

Try it on your next brood. H-O Steam-Cooked Chick Feed is put up in various sized sacks for convenience in use.

Write for free sample, prices and descriptive folder.

The H-O Company
Mills:
Buffalo, New York

John J. Campbell
General Sales Agt.
Hartford, Conn.



BROWN LEGHORNS

The kind the fancier delights in. Winners at Boston, Chicago, Madison Square. Show birds and breeders for sale. Can furnish winners now. Write for circular today. Free. Eggs \$3 and \$5 per setting. W. H. WIEBKE Box P-348 Ft. Wayne, Ind.



155 EGG \$7.85 INCUBATOR LOWEST PRICE YET FOR BIG 155 EGG

Prize winning hatches—Sure results—Healthy chicks—Best Construction—California Redwood—Copper Hot Water Heater—Safety Lamp—Tester—Thermometer—Self-Regulating, etc. Frt. paid E. of Rockies. With Brooder \$9.85. Hundreds of Dead Air Cells. Big new offer this year—write.

PROGRESSIVE INCUBATOR CO., BOX 135 RACINE, WIS.

Mention AMERICAN POULTRY JOURNAL when writing to advertisers.

very little about the poultry family in general, other than, perhaps, the Standard of Perfection qualities of one or possibly two different strains.

The Malay is truly a beautiful fowl; has a high and proud carriage. The male is a beautiful dark red and green-black and is easily the aristocrat of the poultry family, and is a grand bird, not only to look at, but has qualities no other breed can approach; he weighs from 9½ to 12 lbs. and stands from 28 to 44 inches in height. The females are also high carriage birds, cinnamon brown in color and weigh 7½ to 9½ lbs.

As a table fowl they are unapproachable, flesh is of a very fine fibre and sweet and palatable, characteristic of the game breeds; but a cockerel six to seven months old will weigh as much dressed as any two birds of any of the other game breeds. As layers of large size eggs they are hard to beat. Several



Sumatra Game cockerel, winner of first at Sheboygan. Owned by Robert H. Roberts, Sheboygan, Wis.

hens have egg records of 177 to 208 and pullets 187 to 240.

Any true fancier of the beautiful, as well as the utility qualities of the Malays, will find the height of satisfaction in breeding and raising these wonderful birds. I imported a trio from India a little over four years ago which cost nearly \$1,000 a bird, and I certainly have some wonderful specimens in my yards which can be vouched for by the interest shown during the Greater Chicago Show, where my exhibit attracted more attention than any other at this big show. Yet withal the poultry journals have a habit of omitting awards on Games, Malays and Sumatras, in spite of this fact and that more people will pay to look at such fowls than they will the common market breeds which may be seen in any farm yard or grocery coop.

Dr. H. P. Clarke, of Indianapolis, Ind., the best posted man on Games in the country and the Game judge at the last Greater Chicago Show, marveled at the beauty, true type, wonderful carriage and size of the Malays at this show, which was the first time these birds had been shown in the West, and he stated that one of the Malay cockerels displayed by Mr. Roberts was easily the "best male in the show."

The Black Sumatra Game is also a

wonderful bird, they weigh more than the average Pit Game, are excellent layers of medium size eggs, and one of the most beautiful black breeds in existence. Their semi-erect carriage, beautiful lines and the long back and tail of the male places this breed in a class by itself for beauty. While they are not as rare as the Malays, there is very few really good type birds shown these days for the reason that the breeders are not posted on the qualities they possess and the fascination in breeding and perpetuating rare strains of the poultry family.

FREE! FREE!

20,000 Poultry, Pigeon, Pet Stock and Farm Books to be given away absolutely free.

The Indianapolis Star has just completed its second annual 32-page books which are now ready for distribution. They will be sent to any address on receipt of four cents to cover the cost of mailing.

The Star is the only newspaper in Indiana devoting pages each week, in the Saturday issue, to the poultry industry and publishes more poultry advertising than any other newspaper in the U. S. Send for this 12x17 book today.

Poultry and Farm News Department

The Indianapolis Star

300 N. Pennsylvania St., Indianapolis, Ind.

Dawdys' Dark Cornish

Eggs and stock all sold.

Youngsters for Fall Delivery.
Real Cornish Type.

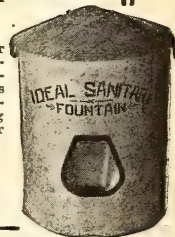
DAWDY & DAWDY
Box M Greenville, Ill.

Water Even Temperature All Year Round

Ideal Sanitary Fountain for fowls is built like a fireless cooker. Keeps water cool in summer, warm in winter. Prevents disease. Water cannot be polluted. Saves work. Increases egg yield. Low price. Inquire at your dealer's. Write for circular.

ROCKFORD POULTRY SUPPLY CO.

Lock Box 201 Rockford, Ill.



FOR THE NEXT THIRTY DAYS

we will furnish you settings of eggs, 15 each, of 7 breeds, namely: Regal Plymouth Barred Rocks, Regal White Leghorns, Regal White Wyandottes, Regal Anconas, Regal Single Comb Rhode Island Reds, Regal Campines, Single Comb Wyandottes. We will deliver Parcel Post Insured. Guaranteed fertile every egg for the price \$1.65. Let your orders come.

CORNELL CO., Great Barrington, Mass.

5000 Single Comb White Leghorns

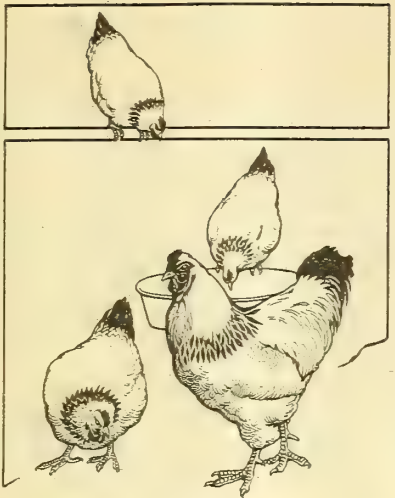
Bella Vista Strain, beautiful S. C. White Leghorns bred to lay. Many individuals with records of over 200 eggs. We will sell choice one and two-year old hens at \$1.50 each, and March and April hatch pullets in lots of 100 or more at 50c each for June delivery, 75c for July delivery, and \$1.00 each for August and September delivery. Safe arrival and satisfaction guaranteed. Correspondence solicited. Catalog free.

Bella Vista Farm Co. Kimmiswick, Mo.

SUNSET

The name of good birds—it designates the highest quality of S. C. BUFF ORPINGTONS. Special May prices on eggs and chicks. Send today for mailing list.

SUNSET POULTRY YARDS
O. E. Stegel 70 Daniel Ave. Olneyville, R. I.



DIAMOND CORN GLUTEN MEAL

VEGETABLE PROTEIN is the best form of protein for egg production and for keeping up the condition of the fowls and producing a good quality of eggs. Diamond Corn Gluten Meal furnishes a highly economical and digestible protein very much more desirable than protein from beef scraps.

Diamond Corn Gluten Meal is the lowest priced corn protein on the market, being guaranteed 40 per cent, and should be fed in a mash with other feeds of lower protein content—formulas for this purpose including Gluten Meal furnished on request.

If your dealer does not carry Diamond Corn Gluten Meal write us and we will advise you where it can be secured.

Corn Products Refining Co.



New York
Chicago

Get This Poultry Book

—it leaves nothing to chance or guess-work. Tells positively How to Start Pullets Laying in Sept. & Oct.—How to Get More Eggs in Winter—Fattening Pullets—How Breeders Get Fertile Eggs—Mating, Forcing, Feeding, etc. "Feeding Secrets of Famous Poultrymen" is sent complimentary by manufacturers of Darling's Meat Crisps—a highly concentrated, sanitary poultry feed. To get book, address **DARLING & COMPANY, Dept. 2, U. S. Yards, CHICAGO**

PIGEONS PAY

Better Than Chickens
Young pigeons (squabs) bring 40 to 50c each when 3 to 4 weeks old. Big demand in city markets. Each pair of pigeons easily clear \$4 per year. Always penned up. Very little space and money needed to start. Free Book explains all. **MARSHALL SCOTT & CO., Dept. 56, ADEL, IOWA.**

FREE BOOK

WHITE ORPINGTONS

Our strain is noted for its heavy laying and prize winning qualities. Eggs from ten grand matings \$3.00 per 15; \$5.00 per 30.

CAIRNGORM FARM, Nottingham, Ohio

HENDERSON STRAIN Barred Plymouth Rocks

Have won at leading shows of
America for the last 20 years

If you want *winners*—Barred Rocks that will mean profitable results for you, get the *Henderson Strain*.

Magnificent breeding and exhibition birds of this grand prize winning blood for sale at reasonable prices.

EGGS from 40 pens that contain the greatest Barred Rock breeders in America. Write today for free catalog describing these wonderful pens and the remarkable winnings of the past season.

W. W. HENDERSON
Bridgeton - - Missouri

S. C. W. Leghorns Exclusively

Young and Barron Strains

Special bred for winter eggs. Milk fed, inoculated and free from lice, which means health and vigor rarely found in any flock. Eggs hatching fine. Egg orders filled on a day's notice at \$5.00 per 100; 90% fertility guaranteed. Am hatching the strongest and most vigorous chicks I ever hatched, the kind that live if given half a chance. Baby chicks every Tuesday in May at \$10.00 per 100; safe arrival guaranteed. No order too large—capacity 10,000 a week. Order direct from this advertisement and save time. My book, "Profits in Poultry Keeping Solved," free with all \$10.00 orders. Circular free.

EDGAR BRIGGS

Box 144

PLEASANT VALLEY, N. Y.



CHICKS for Profit 8 cents and up

Are obtained from Wyngarden's famous strains of White and Brown Leghorns, Barred Rocks and Anconas, which are bred for heavy laying and show qualities.

We have about 5,000 selected breeders from the best strains in America.

We ship only big, strong healthy chicks that will live and prove satisfactory to our customers.

We guarantee safe arrival. Catalogue free.

WYNGARDEN HATCHERY, ZEELAND, MICH.



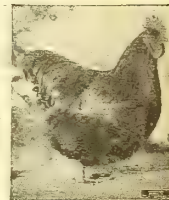
FOXHURST Champion Black ORPINGTONS

Have swept America's Leading Shows, including Madison Square Garden, the greatest of all, for the past ten years, shown by us and our customers.

Conclusive proof that Foxhurst means **THE BEST** in Black Orpingtons.

For egg production they are unexcelled. Stock at all times on a money-back guarantee. Eggs in season. Catalog.

FOXHURST FARM, - LIME ROCK, CONN.



DOUBLE YOUR EGG PROFIT

Make a profit on every egg—don't let a single one spoil. Get "strictly-fresh-egg" prices for every egg any season of the year. Does not change appearance. Keep the eggs at home until prices are highest.

EGG KEEPER

Makes you independent

Think what this means

Sell them at your convenience. Write today. Delay means money thrown away. Trial sample will treat 50 eggs, 10c, or a can that will treat 2,000 eggs, \$1.00. Guaranteed or your money back. Pamphlet free.

EGG KEEPER COMPANY

2000 Broadway

NEW YORK CITY

QUALITY WHITE Wyandottes

72 WINNINGS THIS SEASON. I can furnish you with high grade stock and eggs at reasonable prices. Book egg orders now. Chicago's largest breeder of White Wyandottes.

M. F. MARTIN 3859 Park Avenue CHICAGO, ILL.

You Can Earn \$250 A MONTH With This NEW MACHINE

Many are doing \$3,000 a year and better with this new machine. You can too. You need no experience. We teach you FREE in one simple lesson. Start right at home. Everywhere there's plenty of money and big cash profits waiting for ambitious men.

THIS IS THE BUSINESS FOR YOU

A business all of your own. Requires little capital and grows fast into a real factory—a real manufacturer. Open a Tire Repair Shop with Haywood Equipment. Let the money roll in. Auto tires need mending constantly. There is your profit. Owners eager to give you their business. It means a saving of money to them, and big cash returns for you.

JUST MAIL THE COUPON FOR THIS FREE BOOK

A valuable guide to power and wealth. It gives the complete details. How to start. How to succeed. Tells all about your opportunity.

Shows how easy the work can be done. Shows the big profit in this new field. Write for it today. A postcard will do. Get your FREE copy.

HAYWOOD TIRE & EQUIPMENT COMPANY

526 Capitol Ave.
INDIANAPOLIS
INDIANA

Name _____

Address _____

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Adjustable, lightest, neatest, best, stays on. Price, 12-15c, 25-20c, 50-35c, 100-60c. "Silver Tip" Pliers, 10c; 3c extra for postage. W. J. BALL - Salem, Ohio

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Established in 1900; have won the Blue at the leading shows, including Madison Square Garden and Chicago, and they ship birds C. O. D. on approval. Nuff said. Z. D. STRUBLE, Lock Box A, BASIN, OHIO. Mer. and Licensed Judge of all Varieties since 1907.

"Improver" Strain White Wyandotte Eggs

now half price. Coliseum Winners.

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COLISEUM ANNOUNCES THEIR JUDGES FOR 1916.

Following is the list of judges selected for the Chicago Coliseum show, together with the classes that will be assigned them. Some slight changes may be made, but in the main the breeders can depend upon this list:

A. F. Kummer, Butler, Pa.—Single Comb Red cockerels, hens and old pens; Rose Comb Red cocks, pullets and young pens; White Plymouth Rocks; S. C. Black Minorcas. James A. Tucker, Royal Oak, Mich.—Single Comb Red cocks, pullets and young pens; all Sussex; all Campines. Newton Cosh, Vineland, N. J.—All Barred Rocks. George Wells, Oshkosh, Wis.—Col. Wyandottes; Anconas; Light Brahmas; all Cochins; all Bantams; Blue Andalusian. W. C. Pierce, Hope, Ind.—White Leghorns; Hamburgs; Cornish and Buttercups and Dark Brahmas. J. C. Johnston, Kenney, Ill.—Partridge Rocks; all Langshans; all Polish Buckeyes; Silver Penciled Rocks, and Wyandottes. Herman Rikhoff, Indianapolis, Ind.—All Brown, Buff, Black and Silver Leghorns. Leonard Rawnsley, Columbus, Ohio—All Buff Orpingtons; all Blue Orpingtons; Black Orpington cockerels, hens and young pens. C. S. Byers, Hazelrigg, Ind.—All White Orpingtons; Black Orpingtons, cocks, pullets and old pens; all Rose Comb Orpingtons. Geo. Hackett, No. Freedom, Wis.—Partridge Wyandottes; Houdans; all non-standard varieties except Buttercups; all water fowls. Ralph Whitney, Rochester, Minn.—White Wyandottes; White Minorcas. H. J. Goette, St. Paul, Minn.—Silver Wyandottes (club meeting). Chas. V. Keeler, Winamac, Ind.—Buff Rocks; Buff, Golden and Black Wyandottes. Olin Colip, Atlanta, Ind.—All turkeys.

Remember the dates—December 13th, 14th, 15th, 16th, 17th and 18th. Show opens on Wednesday and closes Monday night. Premium list November 1st. Entries close November 25th. Address Secretary until November 5th, Indianapolis, Ind., and after November 5th, New Southern Hotel, Chicago, Ill.

CORRECTIONS.

An error was made in last month's issue in the caption appearing under the picture of Partridge Plymouth Rock male owned by Meadow Lawn Poultry Farm, Sand Creek, Mich. This particular bird headed their first young pen at the last Chicago Coliseum Show instead of winning first in the single class, as stated in the April number. However, another bird owned by this farm won first in the open class.

In the ad of F. L. Platt, Swanton, Ohio, in our April issue, it states that E. O. Comfort, a customer, won first cockerel at Boston, 1916, that was bred from eggs purchased of Mr. Platt. Mr. Platt informs us it should have read second cockerel.

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OAT SPROUTER

Provides fresh, sweet, wholesome green food and protein, the year round, at lowest cost, only. Delivered east of the Mississippi river, 8 pans 11x15 inches, perforated, galvanized steel. Knockdown. Descriptive Booklet FREE, 10 days free trial. AGENTS WANTED. W. H. COLLINS, 336-V Washington Street, NEW YORK, N. Y.

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We sell everything for the poultryman to make poultry business and home canning profitable. \$1.00 Philo System Poultry Book for 25c. \$1.00 Alfalfa, Farm and Poultry Book for 25c. Pedigreed Single Comb White Orpingtons. Fowls, Baby Chickens and Eggs for hatching. Six Pedigreed White Orpington Chicks FREE with \$3.00 order for books and coop plans. CANNERS for the home and Canning Clubs, \$2.00. Our booklet, "Poultry Profits and Canning" Free. Cycle Hatcher Co., 6 Clover St., Elmira, N. Y.



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PHITALL ALUMINUM LEG BANDS with large Number Buttons, 5 colors. Best for trapezing. Sample for 2c stamp.

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Stock for sale. Eggs for hatching, \$2 and \$5 per 15. Catalog free.

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WHITE LEGHORN EGGS

From pens headed by Chicago and St. Louis winners. Place your order today. Free catalog.

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Silver Penciled Wyandottes

Eggs for hatching from Chicago winners. Stock for sale. Write today.

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S. C. W. Leghorns, Light Brahmas and Barred Rocks. Real quality throughout. Send for catalog.

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From Chicago Winners, \$5.00 per 15. Half price after May 15.

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Tremper's Perfection Blue Barred Rocks

Eggs. Winners at World's Fair, Chicago, and Springfield. Catalogue free.

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Single setting rate May 1. Write for mating list.

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Laid 40% above 200 eggs for a customer

in May and June. This strain of S. C. Buff Leghorns matures quickly—some lay at 4½ months, and many at 5 months. You save feed and get quick profits. Early hatched Leghorns moult in winter when mine are winning and laying. First Pullet at Chicago hatched June 20th. Take this tip from a breeder whose stock won Championship at Chicago, Club Special on Shape at World's Fair, made records of 211-230 and outlaid all Leghorns at Official Egg Contests.

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Harlo J. Fiske, Mgr.

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Partridge Rocks

AMERICA'S
PROVEN
CHAMPIONS

Bronze Turkeys

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ANCONAS.

ANCONAS — BOTH COMBS. Stock for sale at a bargain. Eggs in season. J. H. Van Dever, Tiffin, Ohio. 3-5

ANCONAS—ANCONA EGGS. Baby chicks from my great laying strain and Madison Square, Palace and Boston winners. Frank W. Mains, Morris Plains, N. J. 5

SINGLE COMB ANCONAS—Dark, well mottled, good type, extra heavy layers. Eggs, 15 for \$2.00; 30 for \$3.50; 50 for \$5.00. After May 1st, eggs will be half price. Satisfaction and safe arrival guaranteed. Mrs. Ella Whitwood, Hudson, Ill. 2-5

PRIZE WINNING S. C. Anconas. Laying and exhibition qualities combined. Dr. Gilbert's Ancona Yards, Melrose, Wis. 3-5

ANCONAS—WINNERS, Augusta, Columbia and Sumter. Eggs, \$1 to \$5 per setting. Incubator lots \$5 per 100. Ninety per cent fertility guaranteed. Epperson Ancona Yards, Sumter, S. C. 3-5

SINGLE COMB ANCONAS. Sheppard strain. Stock, eggs and baby chicks. Prices low. Miss L. L. Garvin, Rural Box 36, Wheeling, W. Va. 2-5

SHEPPARD'S STRAIN ANCONA EGGS from free range stock, \$1.50 per 15. Edw. W. Meyer, Laurenceburg, Ind., R. 2, Box 28. 2-5

BRED TO LAY AND win Single Comb Anconas. Grand type and color, large, vigorous, dark birds, descendants from Sheppard's 2nd pen, cocks all have record of dams laying over 222 in one year. Eggs \$2, \$3 and \$5 per 15; utility \$1.50. Mating list free. Satisfaction guaranteed. Walter Jacobs, Box 154, Johnston City, Ill. 4-5

SINGLE COMB ANCONA settings, \$1.00 up. R. B. Watkins, Gaither, Md. 4-6

ANCONAS—BOTH COMBS. Blue ribbon winners. Baby chicks. Eggs from trap-nest stock, bred for production, at 5c, 8c and 10c each. J. C. Saunders, Wauseon, Ohio, R. 5. 3-6

FOR SALE—SINGLE COMB Anconas exclusively. Large, dark, nicely mottled birds; in fine condition. Grand egg producers. Cocks, hens, pullets and cockerels at reasonable prices. Eggs \$1.50 per 15; \$7 per 100. Geo. C. Schwegman, Richmond, Indiana. 4-7

ANCONA EGGS \$1.50 for 15; \$8 per 100. Chicks 25c each. C. G. Miller, Demonstration Farm, South Paris, Me. 4-6

KING OAK ANCONAS, first prize winners at New York Palace, Boston and Brockton. Our birds rank with best. Our prices reasonable. Single and Rose Comb day-old chicks, also stock. Send for circular A. W. Locke, agent, East Weymouth, Mass. 2-5

SINGLE COMB ANCONAS, heavy layers, hatching eggs, 15 for \$1.25. Progressive Poultry Farm, Interlaken, N. Y. 2-5

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SHEPPARD STRAIN S. C. Anconas—Eggs from prize winners \$1.75 per fifteen. D. C. Hudson, Bylesville, O. 3-5

DR. FOQUET'S FAMOUS Champion Strain Anconas. Winners at the leading shows. Both combs. 100 choice cockerels. Egg list now ready. Dr. J. H. Foquet, Oil City, Pa. 3-5

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I HAVE BRED AND exhibited Single Comb Anconas 8 years, winning 1st prizes at St. Louis, Mo.; Terre Haute, Ind.; Springfield, Olney, Peoria, Robinson, Kankakee and Newton, Ill. Eggs from special mating containing 1st pen, Kankakee, \$3 per 15. From utility breeders, \$1 per 15; \$5 per 100. P. E. Gregoire, Newton, Ill. 3-5

S. C. ANCONAS. Sheppard's famous strain, farm range, best stock. Eggs, \$1 per 15; \$4 per 100. Mrs. Jerry Brinker, Mt. Erie, Ill. 3-5

SHEPPARD'S WORLD renowned Anconas, the birds that all Anconas are judged by. See display ad inside front cover. H. Cecil Sheppard, Box M2, Berea, Ohio. 11-15 1 yr

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HAWLEY'S SINGLE COMB Anconas are winners again. Write about stock or eggs. Satisfaction guaranteed. C. L. Hawley, Montrose, Colo. 3-5

ANCONA EGGS for hatching from great layers. Dr. J. E. Berry, Powhatan Point, O. 3-5

ANCONAS—"SHEPPARD STRAIN" eggs now for sale from prize winners and heavy layers. Prices reasonable. Pearl Hart, Mt. Victory, O. 3-5

ANCONA SINGLE COMB eggs for hatching, from farm range stock; two settings for \$3. Carl Ebert, Whittemore, Ia. 3-5

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OUR SINGLE COMB Anconas win—their parents won; it runs in the family. Hatch winners. Get our mating list. G. A. Bell, Carnegie, Pa. 3-5

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WHITE COCHIN BANTAMS. Get mating list. Fred Shriner, Brookville, Ind. 5

GOLDEN SEBRIGHT BANTAMS—In 4 shows won 10 blues, 2 special ribbons and silver cup. Birds score high as 94. Stock for sale. C. E. Wesner & Son, Windsor, Mo. 3-5

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BUCKEYES.

BUCKEYES—Stock and eggs of highest quality. Lindley T. Place, Meshoppen, Pa. 4-5

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BUTTERCUPS — BUY at the Fountain Head. Twelve years' experience with this laying, paying breed. Descriptive illustrated circular free. Clover Hill Farm, Box A, Little Silver, N. J. 3-5

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EGGS! EGGS!! EGGS!!!—From the great prize winning strain of Silver Campines perfected by the Martling Hennerly. Send for circular and remember we guarantee a good hatch. Write now to Martling Hennerly, P. O. Box 186, N. Ridgefield, N. J. 4-5

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SILVER CAMPINES—WINNERS at Streator, Kankakee, Chicago. Send for mating list. John Cheffer, 558 W. Merchant, Kankakee, Ill. 4-5

SILVER CAMPINES—Winners. Eggs for hatchling. Inquire. R. C. Berkey, Salem, Indiana. 4-5

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WINTER LAYERS ARE obtained by setting Buff Cochins eggs any time before July. Big beautiful birds give distinction to farms. Extra fine blue ribbon winners. K. G. Tyler, Norfolk, Neb. 4-6

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DARK CORNISH. The best imported breeders. Win at all shows. Stock for sale. Eggs \$5.00 for 15. Cockerels from imported sires \$5.00 each. Barlett's Park, Belle Plaines, Kansas. 4-5

DARK CORNISH STOCK and eggs. Circular free. M. J. Van Eman, Box A, Elgin, O. 3-5

DARK CORNISH eggs from winners, \$3.00 per 15. L. B. Proal, Buechel, Ky. 5-6

DARK CORNISH of best English strains. Two imported pens. Winners at leading shows, including Buffalo and San Francisco. Import each year. Write for mating list. W. W. Graves, Jefferson City, Mo. 3-5

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SILVER GRAY DORKING eggs, \$2 for 15; additional settings, \$1.50. F. W. Kramer, Allison, Ia. 3-5

SILVER GRAY DORKINGS exclusively 27 years. More first prizes, silver cups and specials at New York, Boston, Buffalo the last 17 years than all competitors combined. Late winnings, Buffalo, two "gold" specials, 24 birds all placed. New York, all first prizes, every bird placed. Stock for sale. Eggs from best matings, \$4 per 13; \$7 per 26. Watson Westfall, Sayre, Pa. 2-16-1 yr.

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WHITE FAVEROLLE EGGS from typical, elegant specimens. Pure white males in pens. George D. Black, Yellow Springs, O. 3-5

SALMON FAVEROLLES—Every first Chicago Coliseum four successive years. Chas. A. Bartholomew, Valparaiso, Ind. 4-5

GAMES.

EXHIBITION GAME. Game Bantam eggs, three dollars. Treadgold, London, Canada. 3-5

MALAY AND SUMATRA eggs for hatchling, from first Chicago prize winners. Prices reasonable. Robert H. Roberts, North 15th St., Bluff and Carl Aves., Sheboygan, Wis. 5

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SILVER SPANGLED HAMBURGS. Black Diamond strain. Highest honors at Madison Square and leading shows of America. Eggs, \$3.00 and \$5.00 per 15. If you want the best and birds that can win in any competition, you should order stock or eggs from Will L. Clark, Sullivan, Ohio. 3-161f

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SILVER SPANGLED HAMBURGS—Again supreme in 1916 at Madison Square Garden. Best cock, hen, cockerel, pullet. Stock and eggs for sale. Leventritt, Tivoli, N. Y. 4-5

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BARRED PLYMOUTH ROCKS—Fine stock. Cockerels, \$2.25; pullets, \$1.75; hens, \$1.60. Eggs, \$1 for 15; \$3 for 50; \$5 for 100. Nintzel Bros., Oshkosh, Wis. 3-5

BARRED ROCK EGGS. \$1 per 15; \$1.75 per 30; 10 chicks guaranteed. Won 1st cockerel, Bushnell, score 92½. Edwin Laux, Bushnell, Ill. 2-5

HEN HATCHED, HEN raised, Ringlet Barred Rocks. Both matings. Eggs that will produce the finest quality exhibition birds, 15 for \$4; 30 for \$7; from farm flock, same breeding, 100 for \$7; all postpaid. Circular and actual photographs free. John Northon, Clare, Mich. 3-5

BARRED ROCK EGGS. Prize exhibition and utility stock. Mating list. Photographs. Chas. Morgan, Loda, Ill. 3-5

DON'T LOOK for large Barred Rock advertisements. If you want hatching eggs that produce winners and layers, you had better get our circular. Our Barred Rocks have great winning records. Eggs, \$1.50 to \$5.00 per setting. Cockerel line only. Geo. A. Coffman, Rushville, Ill. 4-6

BARRED ROCKS. E. B. Thompson's direct. Eggs from choice matings, \$2 per 15, \$3.50 per 30; range, \$6 per 100. Pullets for sale. Mrs. Leland Redfield, Newark, Ill. 3-5

EGGS FOR HATCHING from bred-to-lay Barred Plymouth Rocks, 200-egg strain, free range, healthy stock, at \$6.00 per 100. Mrs. August Bartels, Elmhurst, Ill., Route 1. 3-5

BARRED ROCKS. Chicks and eggs, from best matings or utility. Write. Wm. Hasselbrock, St. Peter, Ill. 3-5

BARRED ROCKS, direct from Hawkins' sweepstake winners, New York and Chicago. Eggs from best stock in Central West for the money. Safety first, good hatch, safe delivery guaranteed. Prompt shipment. Circular. Eggs, 15, \$1.50; 100, \$6.50; 1,000, \$60.00. B. T. Vice, Waynesville, Ohio. 3-5

BARRED ROCK BREEDERS—Learn more about your variety, subscribe for National Barred Rock Journal, Union City, Mich., issued monthly and devoted exclusively to the Grand Old Breed. 50c a year, 3 years \$1, sample 5c. 3-16-1yr

OHIO'S FOREMOST STRAIN of Barred Rocks. Judges say you must have our strain if you want the finest. Eggs from our best exhibition matings, \$5.00 per setting. Mating list free. Enger's Barred Rock Farm, Station F, Bedford, Ohio. 3-5

YORK'S BARRED ROCKS. Pullet mating. Eggs for sale at \$1.50 and \$2.50 per 15. Frank York, Fancier, Strasburg, Ill. 3-5

E. B. THOMPSON'S Barred Plymouth Rocks, 15 eggs \$2.00. Mating list free. W. H. Settle, Gridley, Ill. 3-5

THOMPSON'S RINGLET STRAIN of Barred Plymouth Rocks, 30 eggs \$2.00; 100, \$5.00. Transportation prepaid. Frank Moore, Madison, Ind. 3-5

HOOVER HOOSIER STRAIN eggs, \$2.00 per 15, from prize stock. River Side Poultry Yards, Plymouth, Ind. 3-5

EGGS—BARRED ROCK. Both matings. Selected pens. Won all first ribbons at Edgerton, 1916. High class competition. \$3.00 per 15. Dr. Blosser, Edgerton, O. 3-5

BARRED PLYMOUTH ROCKS—Pure bred E. B. Thompson's Ringlet strain. 26 eggs, \$1.50; \$4.50 per 100. Address Ben Custer, Route 9, Madison, Ind. 3-5

BARRED ROCKS OF QUALITY eggs from large vigorous birds. \$2.00 per 15. John C. Waldron, Paxton, Illinois. 3-5

AURORA BARRED PLYMOUTH Rock baby chicks, guaranteed to please anyone. 25 chicks, \$3.75; 50 chicks, \$7.50; 100 chicks, \$15.00; 200 chicks, \$25.00. Martin Michelson, 232 5th St., Aurora, Ill. 3-5

RINGLET ROCK EGGS, \$1.25 to \$5.00 per 15; 100, \$5.00. Both matings; two pens direct last spring. V. I. Hostetler, R. 5, Napanee, Ind. 3-5

PARKS' 200-EGG BARRED Rocks. Pens headed by sons of 232, 238, 246, 247 and 253-egg hens. 15 eggs, \$1.50; 50, \$4.50. Circular free. Frederick Matteson, 3808 Woodley Lane, Washington, D. C. 3-5

RINGLET BARRED ROCKS. Eggs from birds with great size and quality combined. Special exhibition matings, 15, \$3; 30, \$5. Farm range, 15, \$1.50; 45, \$3; 100, \$6. Mrs. J. M. Kemp, Kenny, Ill. 3-5

EGGS, 100, \$4.50; setting, \$1.00. Mammoth Barred Rocks, weight to 16 lbs. Howard Irvin, Polo, Ill. 3-6

BRED-TO-LAY BARRED Rock. Eggs for hatching. John Watt, Forrest, Ill. 4-6

E. B. THOMPSON'S Ringlets direct. Eggs from my winners at \$3 per setting of 15; 2 settings \$5. Utility, \$1.50 per setting. Send for circular. G. E. Turner, Fisher, Ill. 3-5

E. B. THOMPSON'S RINGLETS direct. Both matings. Farm raised. \$2.00 per 15; \$3.50 per 30. Amos A. Hieser, Dewey, Ill. 3-5

BARRED ROCKS. Bradley strain direct. Snappy, vigorous. E. C. Pendleton, Golden, Illinois. 3-5

BARRED ROCKS. Eggs from a select mating of heavy layers. \$1.75 per 15; \$5 per 50; \$9 per 100. All infertile eggs replaced at one-half. R. E. Frederick, Plymouth, Iowa. 3-5

BLUE PLYMOUTH ROCKS.

BLUE PLYMOUTH ROCKS—The fowls for everybody. Regular egg machines. Winners Panama Exposition, Madison Square Garden, Chicago, Indianapolis. Mating list free. If you want a money maker try Blue Plymouth Rocks. Fishel and Hasselman, Route 11, Hope, Ind. 4-5

COLUMBIAN PLYMOUTH ROCKS.

MY COLUMBIAN PLYMOUTH Rocks have proven the world's best layers and show birds combined; win at the leading shows. Eggs and stock in season. J. M. Jones, Hornerstown, New Jersey. 3-5

COLUMBIAN PLYMOUTH ROCKS—Ens-lin strain. See ad on page 740. 1-16-1yr

WHITE PLYMOUTH ROCKS.

WHITE ROCKS—MY STOCK has been bred for egg production as well as for fancy show points, and prove to be of the best. Eggs, \$1.50 per 15. Stock for sale. Satisfaction guaranteed. R. K. Galebach, R. 6, Mannheim, Pa. 5

WHITE ROCKS—100 eggs, \$4.50. Hens reasonable. Cornelius Heinfeld, New Bremen, Ohio. 5

WHITE ROCKS—Fishel direct; fine laying strain; extra large eggs, \$1 for 15; \$3 for 50; \$4.50 for 100. Good percentage fertility guaranteed. George Boye, St. Peter, Ill. 5

FISHEL WHITE PLYMOUTH Rocks, direct. Blue ribbon winners under prominent judges. In laying qualities vigor and standard requirement, they will please you. Eggs in season. Booklet free. C. R. Anthony, Millersburg, O. Route 4. 3-5

EUGENIC WHITE ROCKS—Fine laying strain, extra large. Eggs, \$1.50 and \$2 per 15. Dr. J. A. B. Srofe, Leesburg, Ohio. 4-6

WHITE ROCKS—HALBACH Strain. Eggs from fine exhibition stock only \$1.00 per 15. Ben Threlkeld, Ewing, Ill. 5

FOR SALE—WHITE Plymouth Rocks, (Fishel Strain Direct). Eggs, \$1 per 15; \$4 per 100. Grace Eby, R. 4, Osborn, Ohio. 5

FAIRVIEW POULTRY YARDS. You will be pleased if you buy eggs or stock at reasonable prices of John Matteson & Son, breeders of their famous White Plymouth Rocks, 271 Morgan St., Elgin, Illinois. 3-5

WHITE ROCKS OF QUALITY. Winners everywhere. Eggs at \$1.50, \$2.50 and \$3.50 per 15. Theo. Poole, Box 20, De Witt, N. Y. 3-5

BOWEN'S WHITE ROCKS. The winning kind. Great layers. Three grand pens. Prices reasonable. Thomas Bowen, Queen City, Mo. 3-5

FISHEL WHITE ROCKS. 15 eggs, \$1, \$2; 100, \$5. Gertrude Ottinger, R. 5, Madison, Indiana. 3-5

WHITE ROCKS—FINE birds of great vigor, carefully trap nested. Eggs from choice matings, \$1.50 per 15. W. S. Jennings, Irvington, Ind. 3-5

WHITE ROCK HATCHING eggs from selected stock of exhibition quality. Poor-man's trap nested strain, \$2 for 15. O. R. Phillips, Route 2, Poland, O. 3-5

WHITE ROCKS—Midlothian-Fishel Strain direct. Heaviest layers. Trap nested. Satisfaction guaranteed. Eggs \$2 for 15. B. A. Alderson, Salem, Ill. 3-5

OWEN FARMS STRAIN White Rocks. Breeding cockerels \$3 and \$5 each. Eggs \$3 per 15. O. S. Fowler, Hopedale, O. 3-5

"COLFAX" WHITE ROCKS are generous layers of big, brown eggs—even in Winter. Stock, eggs, baby chicks with the "kick." Catalog. T. F. Richardson, Colfax, Evans-ton, Ill. 3-5

FISHED WHITE ROCKS blue ribbon winners choice stock, breeders and utility. Now booking orders, eggs and chicks. Free catalog. Whiteview Poultry yards, Mishawaka, Ind. 3-5

WHITE ROCK EGGS from trap nested heavy laying strain, \$3 for 15. Fertility guaranteed. Hillview Poultry Yards, Box A, Batesville, Ind. 3-5

PRIZE WINNING, WINTER laying strain White Rocks. Pens mated with Fishel strain. All my cockerels weigh 10 pounds and over, with good combs and shape to win any prize. 15 eggs \$1; 100 for \$5. Hy J. Marquardt, Waterloo, Ill., Route 5. 3-5

WHITE ROCKS, Fishel strain. Choice stock reasonable. August W. Schroeder, St. Peter, Ill. 11

WHITE ROCK EGGS from best laying strain. \$1.50 per 15; \$6 per 100. Mrs. Gilbert Luyster, Franklin, Ind., R. 4. 4-6

"FISHEL" WHITE ROCKS direct. Farm raised. Prominent winners under prominent judges. In health, constitutional vigor, and Standard requirements they will please you. Eggs, \$2 per 15. Eggs from pens headed by Fishel males, \$3 per 15. Eggs from one special mating of "top-notchers," \$5 per 15. Write me. Booklet free. Plummer McCullough, poultry judge, Mercer, Pa. 12-15-1yr

WHITE ROCK EGGS—A bargain if orders sent during April and May. Write Mrs. Ed. Henderson, Goodland, Ind. 4-5

WHITE ROCKS—MAGNIFICENT stock from hens of 200-egg records. Cockerels, \$5.00; pullets, \$5.00. Eggs from mating of 200-egg hens with son of 301-egg hen, 25c each; \$2.75 per 15; \$18.50 per 100. M. A. Stockley, Winnetka, Illinois. 3-5

HIGH CLASS WHITE ROCKS—Fishel Strain direct; 15 eggs \$1; 100 eggs \$5; 200 eggs \$9; 500 eggs \$22. George Lehmkuhl, New Bremen, O., Box 182. 2-5

BUFF PLYMOUTH ROCKS.

HEISER'S ALL-GOLD Strain Buff Rocks of quality eggs, \$1.25 per 15 up; chicks \$2 per dozen. Mating list free. J. A. Heiser, Fisher, Ill. 3-5

SHAPE, COLOR, PERFORMANCE are characteristic qualities of Lehman's "Premier" Buff Rocks. Broad guarantee with every bird sold. Eggs \$3. Circular. Ed. Lehman, Goshen, Ind. 3-5

BUFF ROCKS—LIMITED number eggs from pens headed by first and fifth cocks at Chicago, 1916. Mating list. F. W. Kramer, Fort Atkinson, Wis. 3-5

BUFF ROCK EGGS for sale—From select birds, \$1.50 per 13. Dan Forth, Fenton, Ill. 5-6

BUFF ROCKS—ALL STAR matings. Write today for catalog. E. A. Stouvenel, Savanna, Ill. 3-5

BUFF ROCK WINNERS. 15 eggs, \$1.50. Andrew Huber, Route 5, Seymour, Ind. 3-5

BUFF ROCKS—HIGH class stock with the "Winter egg habit." Order eggs now. Mating list free. Marion Culver, Glencoe, Ill. 4-6

BUFF ROCKS—Winners and layers. Poley strain. Send for mating list. John Cheffer, 558 W. Merchant, Kankakee, Ill. 4-5

ASTLE'S QUALITY BUFF ROCKS will win for you. I can furnish you with eggs from winners at the Greater Chicago, 1916, show, the Chicago Coliseum, Illinois State and Kankakee. Prices reasonable. Write for mating list. Milan C. Astle, Box A, Mokena, Ill. 4-5

PARTRIDGE PLYMOUTH ROCKS.

AMERICA'S PROVEN CHAMPION Partridge Rocks and Bronze Turkeys. See our adv. on page 820. 5-15-tf

RIVERDALE PARTRIDGE PLYMOUTH Rocks won 20 awards in two shows. Eggs from 5 choice pens. Stock for sale. R. F. Schuler, Roann, Ind. 3-5

QUALITY PARTRIDGE ROCKS. Noftzger strain. Eggs, \$2-\$2.50 setting. J. F. M. Greene, Hillsboro, Illinois. 3-5

PARTRIDGE ROCKS. Noftzger strain. Eggs, \$1.50. Baby chick and stock. Write for mating list. Satisfaction guaranteed. Geo. Miller, Nappanee, Ind. 3-5

PARTRIDGE PLYMOUTH ROCKS—Eggs from prize winners. Paul Wurtzel, Dept. 5, Freeport, Ill. 2-6

PARTRIDGE ROCKS—Winners. Scoring 90 to 94. Mating list free. L. C. Smith, Cushing, Ia. 3-5

WOODWARD'S PARTRIDGE ROCKS will please you. Winners at Madison Square Garden, Allentown, Inter-State Fair, Trenton. Breeding stock. Eggs for hatching. Mating list free. Henry J. Woodward, Newton, N. J. 3-5

PARTRIDGE ROCK EGGS — Extra fine matings. Prices reasonable. H. M. Haerling, Floris, Ia. 3-5

PARTRIDGE ROCKS—Ckls. from prize winning stock, \$3 and \$5 each. Eggs from Partridge Rocks. R. C. Reds and Black Red Games, \$2 per 15. Victor Samp, Hackett St., Beloit, Wis. 3-5

PARTRIDGE ROCKS—Good as grows. Beauties. Winners. 15 eggs \$2. Jim Healey, St. Charles, Ill. 4-6

GLENWOOD STRAIN PARTRIDGE Rocks. Winners at Boston and Madison Square Garden. Breeding pens and cockerels for sale at prices within reach of everyone. Write for mating list today. Glenwood Farm, West Mansfield, Mass. 4-6

SILVER PENCILED ROCKS.

I MAKE A SPECIALTY of Silver Penciled Rocks. My seventh year. Cockerels from prize winning stock \$3.50 up. Eggs \$2 to \$3.50 for 15. Satisfaction guaranteed. Eugene Ditzler, Davis, Ill. 3-5

PLYMOUTH ROCKS—SEVERAL VAR.

BUFF AND WHITE ROCKS. Eggs at farmers' prices. Buff baby chicks. Rachel Sheppard, Pearl, Illinois, R. 1. 3-6

BUFF AND WHITE ROCK cockerels. Eggs in season. Buff baby chicks. Rachel Sheppard, Pearl, Ill., Route 1. 3-5

MAPLEWOOD POULTRY FARM — Partridge, Buff, White and Barred Plymouth Rocks. Eggs for hatching, \$1.50 per 15, \$3.00 per 50, \$5.00 per 100. Mrs. John Hooker, New London, Ohio. 5

ROCK BOTTOM ROCK Yards—All breeds Plymouth Rocks. Stock and eggs for sale. Plymouth, Ind. 3-5

RED CAPS.

ENGLISH RED CAPS exclusively. Imported and domestic. Fourteenth year. Eggs \$3 per 15; \$5 per 30. Circular free. H. G. Weidenfeller, Mineral Point, Wis. 3-5

RED SUSSEX.

RED SUSSEX — Eggs and chicks from winners. Mating list now ready. E. B. Stacy, R. 3, Box 107 C, Lansing, Mich. 3-5

COBURN'S RED AND SPECKLED Sussex. Biggest winners at New York and Chicago Club shows. June 1st, breeders half price. Great reduction on eggs. Red Sussex Farm, St. Clair, Mich. 2-16-tf

RED SUSSEX—Eggs from our best matings now \$2.00 per setting. Order early. Highland Farm, Mt. Carmel, Ill. 5

RED SUSSEX EGGS—Prize strain. Two, three and four dollars per setting. Thomas Murdoch, Galesburg, Ill. 4-5

RED SUSSEX EGGS from our blue ribbon winners. Red Sussex Yards, 314 King Ave., Columbus, Ohio. 4-5

RED SUSSEX EGGS for hatching; quality Mahogany Reds; carefully mated; many first prize winners. Send for descriptive Mating List. Eggs \$5 and \$3 per 15. Zeigler & Eldridge, Plymouth, Wis. 1-6

RED SUSSEX—Greater Chicago and Missouri State Show blue ribbon winners; three grand pens. Eggs \$3 and \$5 per 15. Write for mating list. Fred Landgraf, Marissa, Ill., Box A. 2-5

RED SUSSEX — Exhibition and utility cocks, hens, pullets, \$2 up. Parker, 194 Young St., Winnipeg, Canada. 5-7

RED SUSSEX—At Cleveland on 6 entries I won 5 places. Eggs for hatching. Bert Locke, Oberlin, O. 3-5

"NOBILITY" RED SUSSEX—Dark Mahogany, slate undercolor. Stock and eggs for sale, from first prize winners. L. W. Fowler, Wabash, Ind. 3-5

RED SUSSEX—Write for circular mating list. Sussex Yards, Alma Center, Wis. 3-5

RED SUSSEX—Grand mating. Limited number of eggs for sale, \$5 per 15. Thomas Bowen, Queen City, Mo. 3-5

RED SUSSEX — My mating list ready about January 1st. Write for it. Have imported 20 birds this Fall, which will help make up my pens. W. W. Graves, Jefferson City, Mo. 3-5

SPECKLED SUSSEX.

SPECKLED SUSSEX. Choice stock priced reasonably. Rev. W. Berberich, Groton, New York. 11-15-tf

SPECKLED SUSSEX—Eggs \$3 for 15; \$5 per 30; trios, \$12. Madison Square Garden winning strain. Hacker Poultry Co., Marissa, Ill., Box A. 4-6

SUSSEX.—SEVERAL VARIETIES.

FOSTER'S RED, SPECKLED, Light Sussex. America's best expertly mated. Eggs \$3 and \$5. Catalog. G. H. Foster, Bloomington, Ind. 3-5

ENGLISH RED AND SPECKLED Sussex. This ad worth \$1.00 with each order. Write today for catalog. Dr. Prudhomme, Desk A, Thurmont, Md. 5-7

SPANISH.

FOR SALE—WHITE FACE Black Spanish eggs, 15 for \$1.50; 30 for \$2.50; 100 for \$5.00. Good stock for sale. Louella E. Jaqua, Portland, Indiana. 3-6

WHITE FACED BLACK Spanish stock from silver cup winners, \$2.50 and up. Eggs, \$2 per 15. J. R. Galloway, Elwood, Ind. 2-5

WHITE FACED BLACK Spanish eggs \$2 for 15. A. Moritz, Rahway, N. J. 3-5

BLUE WYANDOTTES.

BLUE WYANDOTTES — Bred from imported stock. Eggs, \$3.00 for 15. J. A. Gauntt, Vincennes, Ind. 5-6

BUFF WYANDOTTES.

HARDY FARM RAISED (Thorobred) Buff Wyandottes. Eggs in season. Clara Bodine, Walnut, Ill. 4-5

BUFF WYANDOTTES—Owens has some good breeding and exhibition stock for sale at reasonable prices. Write your wants. Eggs \$1.50 to \$5 per 15. R. M. Owens, Shiloh, O. 3-5

NOWYAT FARM BUFF Wyandottes won everything at the last Erie Show November 22-27, 1915. Pa. Club meet. Silver cup and all special ribbons. Eggs \$2 per 15. Cockerels. R. A. Page, North East, Pa. 3-5

BUFF WYANDOTTES—Eggs from our Chicago winners, \$5 for 15. F. L. Waterman & Sons, Barrington, Ill. 3-5

BUFF WYANDOTTES exclusively. Eggs for hatching \$2 per 15. Jess. R. Parker, Vanceburg, Ky. 3-5

BUFF WYANDOTTES OF QUALITY—Eggs from silver cups winners at \$1.50, \$2 and \$3 per 15. Order from this ad, or send for mating list. Satisfaction guaranteed. William E. Woolley, Sidney, O., Route 5. 3-5

"GOLDCROFT" BUFF WYANDOTTES—Winners of State Meet Club cup, Indianapolis, January, 1916. Blue ribbons at other goos shows. Eggs, \$2 to \$5 per setting. Satisfaction guaranteed. C. R. Montgomery, South Bend, Ind. 4-6

COLUMBIAN WYANDOTTES.

COLUMBIAN WYANDOTTES—Michigan's champions, won more blue ribbons at leading state shows than all competitors combined. Eggs from six exhibition matings, \$2.00 and \$3.00 per fifteen. Fertility guaranteed. Mating list free. Some fine breeders cheap. Arthur Schaack, 605 Rohns Ave., Detroit, Mich. 5

COLUMBIAN WYANDOTTES—Eggs from prize winners and utility stock at a living price. Fertility guaranteed. Marshall Jones, Rising Sun, Ind. 3-5

COLUMBIAN WYANDOTTES — Bred to lay. 15 eggs \$1; 100 for \$5.50. Satisfaction guaranteed. Free circular. L. S. Spafford, Martville, N. Y. 3-5

COLUMBIAN WYANDOTTE EGGS—High bred stock. Cockerels from trap nested stock mated to hens that lay. S. M. Watkins, Walnut, Ill. 3-5

COLUMBIAN WYANDOTTES that showed their superior quality by winning more first, second and third prizes this season at Chicago, Minneapolis, Winnipeg and Minnesota State Fair, than all my competitors combined. Mating list free. Geo. A. Kersten, Washburn Park, Minneapolis, Minn. 4-16-1yr

COLUMBIAN WYANDOTTES—Eggs from strong, healthy stock. 15 selected eggs, \$1.25; 100 for \$5. Satisfaction guaranteed. Terrence H. Clark, Dana, Ind. 4-5

GOLDEN WYANDOTTES.

GOLDEN WYANDOTTE EGGS reduced to \$1.00 per setting. W. F. Burkitt, Benton, Illinois. 5

GOLDEN WYANDOTTES—Carefully bred for 23 years. Winners at Chicago, New York and wherever shown. Eggs, \$5.00. Replace infertile eggs. Few fine males. Frank Ward, 27 Nile St., Tiffin, Ohio. 3-5

GOLDEN WYANDOTTES—BEREITER'S Beauties. Infertile eggs replaced. Mrs. Ada Bereiter, Brighton, Iowa. 4-5

GOLDEN WYANDOTTE Breeder 16 years. Eggs \$2 per 30, from best pen. Gerhard Hellman, 1512 Second St., Fort Madison, Ia. 3-5

GOLDEN WYANDOTTES. EGGS for hatching. H. C. Moeller, Wheeler, Ill. 4-5

PARTRIDGE WYANDOTTES.

YOUNG'S PARTRIDGE WYANDOTTES. Champions of Maine. Won every first and special offered at Sanford, Portland and Bangor. Eggs, \$2.00 per 15. B. H. Young, Bar Harbor, Me. 3-5

PARTRIDGE WYANDOTTES, White Wyandottes, Brown Leghorns. Eggs, \$1.25 per 15. Tom Hill, Ewing, Ill. 4-5

PARTRIDGE WYANDOTTE EGGS—Pens headed by 1st Chicago Coliseum cock and Wisconsin State Show winners. W. W. Day, Janesville, Wis. 4-5

PARTRIDGE WYANDOTTES—Real champions. Won all firsts but one, all cups and specials at the last Chicago Show; 12 exhibitors and 95 specimens in class. G. S. Culver, Sandwich, Ill. 4-6

PARTRIDGE WYANDOTTES — Standard shape, color and pen. Buff Orpingtons. Standard color. Eggs, \$1.50 per 15. James Scrubb, Urbana, Ohio. 3-5

PARTRIDGE WYANDOTTE EGGS—\$1.25 for 15; \$6 per 100. Emmett Haer, Craig, Mo. 4-6

PARTRIDGE WYANDOTTES—Eggs \$1.50 for 15. Circular. Wm. Shreve, Uhrichsville, O. 3-5

PARTRIDGE WYANDOTTES—Eggs from prize winning pens, \$1.50 per setting. Utility \$1; per 100, \$5. E. H. Casey, Ewing, Ill. 3-5

PARTRIDGE WYANDOTTE EGGS—Winning quality, \$2 per setting; reduction for larger quantities. James L. Coulter, New Wilmington, Pa. 2-5

SILVER WYANDOTTES.

SILVER WYANDOTTES—Eggs, \$1.00 for 25; \$3.00 per 100. Mrs. Fred Schroeder, St. Peter, Ill. 5

SILVER WYANDOTTES—STRICTLY high class. Prize winners. Good layers. Score to 93. Eggs \$1.50 per 15; \$7 per 100. James Leggett, Hornsby, Ill. 3-5

SILVER WYANDOTTES, Tarbox strain. Choice stock reasonable. August W. Schroeder, St. Peter, Ill. 11

TRAP-NESTED SILVER Laced Wyandottes. Hatching eggs, \$1 per 15. Baby chicks, \$1.50 per doz. U. Guy Eby, Cassopolis, Mich. 4-6

SILVER WYANDOTTES and Rouen Ducks—12 grand matings. Philadelphia, Buffalo and New York winners. Send for mating list. R. 2. M. H. Leidy, Soudeston, Pa. 3-5

SILVER LACED WYANDOTTES exclusively. Twenty-second year. Clear, black and white open lacing. Eggs from prize matings, \$1.50 per 15; \$2.50 per 30. Satisfaction guaranteed. A. D. Long, Blooming Glen, Pa. 3-5

WHITE WYANDOTTES.

SPRING BROOK FARM White Wyandottes, famous laying strain. Eggs from choice matings of splendid layers, \$1.50 per 15; \$8.50 per 100. N. E. Robart, Caledonia, Mich. 5-7

"LAYMORE" STRAIN White Wyandotte eggs hatch out winter layers. Penn. Poor-man, Martin stock. Hens have 180-egg records or better. \$1.50 for 15. Mating list free. C. W. Zelle, Appleton, Wis. 3-5

WHITE WYANDOTTE EGGS—100 for \$4. Russell Simpson, Palmer, Ill. 5-6

WHITE WYANDOTTES—Fisbel Strain. Eggs, young and old stock for sale. Edw. C. Wiesenborn, Grand Chain, Illinois. 5-7

WHITE WYANDOTTE hatching eggs, \$1.00 per 15. J. A. Nelson, 4738 N. Springfield Ave., Chicago. 4-5

WHITE WYANDOTTES. Utility stock, standard breeders and exhibition birds. Prices reasonable. G. A. Haper, R. 8, Batchtown, Ill. 5-7

HIGH CLASS WHITE Wyandottes—John S. Martin Strain. Hatching eggs \$1 per 15; \$3 per 50; \$5 per 100. Wm. Remmert, St. Peter, Ill. 5

WHITE WYANDOTTES, White Orpingtons. Do not buy eggs until you have seen our mating lists. 100% fertility. Be one of our satisfied customers. J. A. Curzon, Champaign, Ill., Route 2. 3-5

WHITE WYANDOTTES, Martin and Fisbel strain. Choice stock reasonable. August W. Schroeder, St. Peter, Ill. 11

WHITE WYANDOTTES—Bred to lay. Choice stock and hatching eggs for sale. Mating list free. E. Fetzner, Melrose Park, Ill. 3-5

KEELER'S "WORLD'S GREATEST" strain—White Wyandottes. Eggs cheap. Nick Fleck, Plymouth, Ind. 4-6

WHITE WYANDOTTES—REGAL-DORCAS strain. Bred to lay and win. Won wherever shown. Eggs, special mating, \$2 for 15; \$3 for 30; utility, \$1 for 15; \$3 for 50; \$5 for 100. Frank Hardwidge, Poneto, Ind. 4-5

EXHIBITION AND HIGH-CLASS layers. Winners 1915-16 at Kansas City, 1st 2d and 3d cocks, 2d and 4th hens, 5th pullet, 1st best variety, 1st special, best cock. At Omaha, 2d and 3d cock, 2d pen, 2d hen. Eggs for sale. Send for mating list. Dr. C. P. Liegecot, Red Oak, Iowa. 4-6

HATCHING EGGS FOR SALE from heavy laying trap-nested. Standard bred White Wyandottes, \$1, \$2 and \$3 per 15. Frances Mansfield, 1723 No. Ind. St., Kokomo, Ind. 3-5

WHITE WYANDOTTES BRED for show and eggs. Buffalo winners. Trap-nested for eight years. Day-old chicks. Eggs. Cockerels. Miss Marion I. Moore, Hamburg, N. Y. 4-6

WHITE WYANDOTTE EGGS from prize winners, \$5 per 15; pen 2, \$3 per 15. Farm range, \$6 per 100. C. E. Van Buren, Victoria, Ill. 3-5

JOHN A. BRUHN, Homer, Ill., breeder of Ideal White Wyandottes. Guaranteed eggs from large, heavy layers, \$1 per 15; \$5 per 100. 3-6

REGAL DORCAS WHITE Wyandottes. They will please and pay you. Eggs, \$1.50 for 15. James C. Wilson, Peoli, Ohio. 4-6

HACKER'S WHITE WYANDOTTES—Eggs from hens, pullets; cocks and cockerels scoring in show rooms by Judges Pickett, McClave and Ott, 94 to 96; per 15, \$3.50 and \$2. W. P. Hacker, Milledgeville, Ill. 3-5

WHITE WYANDOTTES—Prize winners. 15 eggs \$1. Special mating \$3 for 15. Geo. Reiling, Burnt Prairie, Ill. 3-5

WHITE WYANDOTTES—Fine range flock. Eggs 15 for \$1; 100 for \$5. Best hens mated to Keeler cockerels; 15 eggs \$2. Satisfaction guaranteed. William Brockley, Vermont, Ill. 3-5

WHITE WYANDOTTE COCKERELS—Full brothers to my state show and Decatur winners. Special price \$5 each. Pens including above winners now mated and 9 chicks guaranteed, at \$5 per setting. Carl M. Bailey, R. F. D. No. 7, Decatur, Ill. 3-5

WHITE WYANDOTTE EGGS from winners at Waukegan, Elgin, Melrose Park, etc. Write for prices. D. A. Edmunds, Waukegan, Ill. 3-5

WHITE WYANDOTTES—15 eggs \$1.50. Robson, 340 W. 61st St., Chicago, Ill. 3-5

WHITE WYANDOTTES—Prize winners and heavy layers. Eggs reasonable and satisfaction guaranteed. Mae Biggins, Marion, O., R. F. D. No. 7. 3-5

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NEALE BROTHER'S WHITE Wyandottes—Heavy Winter layers. Highest records of American Wyandottes at last two Connecticut laying contests. Write now for our new catalog. Neale Bros., Box 38 K, Apponaug, R. I. 3-5

FARM RANGE WHITE Wyandottes. Eggs \$1 per 15; \$5 per 100. Also stock. John Chambers, Seville, O. 3-5

WHITE WYANDOTTES—Eggs for hatching. Circular. W. Sewell Painter, Bellefontaine, O. 3-5

BRED TO LAY; bound to pay. Hatching eggs from 238-egg Barron Strain White Wyandottes; 85 per cent fertility guaranteed, \$1.50 per setting; express or parcel post prepaid. Write for booklet. Ashokan White Wyandotte Poultry Farm, Shokan, N. Y. 3-5

WHITE WYANDOTTES—Famous laying strain eggs, \$1 per 15. Mrs. Ch. Schnepf, Lakewood, Ia. 3-5

REGAL EGGS FROM trap nested hens. Matings are headed by sons of "Martin's" pens 5 and 10. Settings \$2. \$3. None are better. Why pay more. Frank D. Delaware, Massena, N. Y. 3-5

WINNEBAGO WHITE WYANDOTTES—Famous Keeler and Fisbel strains. Eggs for hatching from trap-nested stock at \$2.00 and \$3.00 per setting. Order early. Albert March, Jr., Dept. D, Oshkosh, Wis. 3-5

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BARGAIN EXTRAORDINARY. At the Milwaukee Show, January 21st to 26th, 1916, a show that compared favorably with The Coliseum, in White Wyandottes I won 5 out of 6 firsts in the second largest class in the show. I won 1st and 5th cocks; 1st and 2nd hens; 1st cockerel; 1st and 2nd pullet, and 1st old pen. If you question the quality of my Wyandottes, write Judges W. C. Pierce, Theodore Hewes, or Mr. Wells. I have 8 pens mated of the very best Wyandottes in the country, and I will sell eggs from these pens in limited numbers at \$3.50 per setting of 15 eggs—not more than 2 settings to any one customer. If you are interested, place your order early. Frank E. Hering, South Bend, Ind. 3-5

QUALITY WHITE WYANDOTTES. Eggs \$1.50 per 15. G. A. Howe, Waterloo, Ind. 3-5

WYANDOTTES—SEVERAL VARIETIES.

BUFF AND COLUMBIAN Wyandottes—Eggs, 16, \$1.25; 30, \$2.25; 45, \$3.25; postpaid. C. E. Abbott, Warrenton, Ga. 3-5

SPECIAL OFFER THIS MONTH—Buff and Partridge Wyandotte stock and eggs. Coffin & Sons, Waverly, Iowa. 5-7

SEVERAL BREEDS.

FISHEL WHITE ROCKS, White and Blue Orpington eggs. Write for mating list. Rice Lake Poultry Yards, Rice Lake, Wis., Box 32. 5-6

BLACK JAVAS—7 San Francisco prizes. Blue Andalusians, State Poultry champion winners. Eggs only \$1.50 per 15. Herbert Hodgson, Albion, Ill. 5

B. ROCKS AND COLUMBIAN Wyandottes. Eggs, \$1.25 and \$1.50 per 15. Mrs. A. D. Hartzler, Route 1, West Liberty, Ohio. 5

PRIZE BLUE RIBBON WINNERS of 1915 and 1916. Hatching eggs from S. S. Hamburgs, Non-bearded Golden Polish, Houdans, S. C. Black, White and Buff Leghorns. Carl Staack, Fancier, Breeder and Exhibitor, 6136 Giddings St., Jefferson Pk., Chicago, Ill. 3-5

S. C. REDS, American Dominiques. Eggs, \$2 setting. D. Baker, Wortendyke, N. J. 3-5

WHITE ROCK, WHITE Leghorn and Light Brahma cockerels, pullets and hens. Hatching eggs, \$5.00 per 100. Heavy layers. Satisfaction guaranteed. J. Earl Hoover, Staunton, Va. 4-5

VICTORIA POULTRY ASSOCIATION—Eggs per 15: Buff Rocks, \$2.00; R. C. Rhode Island Reds, \$1.50; White Orpingtons, \$1.50; S. C. Rhode Island Reds, \$1.50 and \$3.00; White Rocks, \$1.50; Buff Leghorns, \$1.50; Barred Rocks, \$2.00 up; White Wyandottes, \$1.50 to \$5.00. C. E. Van Buren, Sec'y, Victoria, Ill. 3-5

CHICKENS—MONTH OLD, past danger, from heavy laying trap-nested Buff Rocks, Columbian Wyandottes, S. C. Buff Leghorns with great show records. 16 years a breeder. Oren Haynes, South Colton, N. Y. 3-5

THE TWO GREATEST BREEDS for all year round laying, Single Comb Anconas and Buff Leghorns. Bred for shape and color. Have nothing but select stock. Eggs, \$1.50 for 15; \$2.50 for 30. Write for prices in 100 lots. Edwin W. Phillips, Mattoon, Ill. 3-5

SUMATRAS, ORPINGTONS, White Rocks. James A. Daley, Licensed Poultry Judge, Mohawk, Mich. 11-15-1 yr 3-5

EGGS, \$1.00 per 15; \$2.00 per 40. Brahmas, Rocks, Reds, Leghorns, White Orpingtons; eggs, \$1.50 per 15. Catalog free. S. G. Bealer, Coopersburg, Pa. 3-5

ROCKS, WYANDOTTES, Leghorns, Hamburgs, Pekin, Muscovy, Mallard ducks, geese, turkeys, guineas. Free catalog. B. F. Kahler, Hughesville, Pa. 3-5

JUST OUT—1916 free catalog. Nineteen combined mating lists, 31 varieties. Before buying eggs or stock, get one. Sussex Co-operative Poultry Yards, Sussex, Wis. 3-5

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WHITE WYANDOTTE, S. C. Leghorn breeders. Two-year-old 180-egg record hens mated to cockerels from 200-egg record hens. Eggs 10 cents each. Southview Farms, Plymouth, Ind. 3-5

ALL VARIETIES LAND and water fowls. F. C. Wilbert, Grand Rapids, Mich. 3-5

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EGGS \$1 FOR 15, ALL varieties. Rocks, Reds, Wyandottes, Orpingtons, Leghorns, Minorcas, Campines, etc. Breeders. Expert judge in attendance. Washington Farms, Washington, N. J., Box D. 3-5

ROUEN DUCKS and Buff Rocks. Yards headed with San Francisco and Dayton winners. Eggs \$2 per 11 and 13 respectively. Send your orders to Edw. Davidson, Carey, O. 3-5

BARRED ROCK, WHITE Wyandotte and Single Comb White Leghorn eggs for hatching, \$1.50 per 15. Eggs only from trap-nested hens, all hens with records above 200. Dunn County School of Agriculture, Menominee, Wis. 4-6

BABY CHICKS AND eggs for hatching. Barred Rocks, Single Comb Reds and White Leghorns. Chicks 12c each; eggs \$1.50 and \$2 per 15. Price cards free. Crescent Farms, Champaign, Ill. 3-5

WHITE AND BUFF Orpingtons, White and Buff Rocks. Anconas, Light Brahmas, White Runner Ducks, White China Geese. Eggs for hatching. Pure maple syrup for sale. Esleie Webb, East Oswell, Ohio. 4-6

WRITE FOR MATING list of Robertson's Black Orpingtons, White Leghorns and Buttermilks. J. C. Robertson, Gallon, O. 3-5

MAPLE FOREST POULTRY Farm—Eggs, per 15, Buff and White Orpingtons, Golden and Silver Campines, Barred Rocks, \$1.50. Blue Orpingtons, \$5. Cockerels for sale. W. Chalker & Sons, Waters, Mich. 4-6

20 EGGS \$1.00. Reds, Rocks, Wyandottes, Leghorns, 30 other varieties. Also pigeons, hares. List free. A. L. Bergey, Telford, Pa. 4-5

CHICKS AND EGGS. Express prepaid. Cheapest hatchery. Highest recommendations. Ten varieties. Hundreds best quality. Classy dollar pullets. Order now. Cedar Hill Farm, Saugerties, N. Y. 4-5

WHITE ORPINGTON AND SILVER Penciled Wyandotte eggs for hatching. Prices right for quality. Fairmont Farms, South Haven, Mich. 4-6

ROSE COMB BLUE Andalusians, Golden Campines, Spangled Orpingtons. Eggs \$1.50 per 15. F. E. Pritchard, Tekonsha, Mich. 3-5

EGGS—SETTING \$1.50, from Partridge Wyandottes, White Plymouth Rocks, Pekin, Rouen, Buff Orpington Ducks. Circular free. S. C. & C. E. Weaver, Lake Park, Ia. 3-5

S. C. ANCONAS, Black Langshans, Grand Winter layers. Eggs \$1.50 per 15. Charles Staats, Chester, Ill. 3-5

REGAL WHITE WYANDOTTES—Winners, record layers. Young's S. C. W. Leghorns. Headed by grandsons of Victor. All birds trap nested. Eggs \$3 for 15. Satisfaction guaranteed. Henry Jones, Derby, N. Y. 3-5

EGGS, 15, \$1.00; 40, \$2.00. Thorbred Rocks, Wyandottes, Reds, Leghorns, Hamburgs; 19 varieties. 35 years experience. Catalog. White Orpingtons, Houdans, Brahmas, 13, \$1.00; 30, \$2.00. S. K. Mohr, Coopersburg, Pa. 2-5

BABY CHICKS.

CHICKS—7 CENTS and up. Rocks and Leghorns. Arrival guaranteed. Nittany Valley Poultry Farm, Mingoville, Pa. 5-6

BABY CHICKS AT special prices. Single Comb Buff Leghorns, sired by New York and Chicago winners. 100 eggs \$4.00. Circular. F. J. Rosenberger, R. 9, Tiffin, Ohio. 5

CHICKS 6C AND UP—White Wyandottes, Rocks, Leghorns, Minorcas, etc. Safe delivery guaranteed. Circular free. Reliable Hatchery, McAlisterville, Pa. 5-7

S. C. WHITE LEGHORN Baby Chicks. You positively cannot afford to place your order for baby chicks before writing for our illustrated book on the new up-to-date way. We raise them for you for the first twenty days at our expense. We tell how you can clear over \$11 per day on 500 of our pullets by next November. Positive proof. No fancy figures. It will pay you to investigate. Twelve years in perfecting one strain. Write now. Kerlin's Grand View Poultry Farm, Center Hall, Pa. 5

S. C. WHITE LEGHORN chicks, \$12 per 100. Wyckoff's, the world's greatest strain. Mauerhof, 5150 S. Artesian Ave., Chicago, Illinois. 5-7

BABY CHICKS—High Class S. C. W. Leghorns. Eggs for hatching. Circular free. Egland Egg Farm and Hatchery, Mt. Vernon, Iowa. 3-5

CHEAPEST HATCHERY—EXPRESS prepaid. Baby chicks and three months old pullets. Eight best varieties. Book orders now for early pullets. Bargains by hundred. Twenty years experience. Cedar Hill Farm, Saugerties, N. Y. 5

BABY CHICKS AND eggs from high scoring birds. Heavy egg production Laken-velders, Black Minorcas, White Leghorns, Anconas, Hamburgs, White Rocks, Barred Rocks. Price reasonable. Catalog free. John Gege, Chatfield, Ohio. 4-7

PEERLESS CHICKS are easy-to-raise, sure-t live. Shipped successfully anywhere. Satisfaction and safe delivery positively guaranteed. Leading strains of Leghorns, Plymouth Rocks, Reds, Wyandottes and Orpingtons, 10c up. 50c book on raising chicks free to all customers. Write for descriptive literature. Peerless Hatchery, 4537 S. Sacramento, Chicago, Ill. 5

BABY CHICKS—Single Comb White Leghorns, choice stock of the best laying strains. Satisfaction and safe delivery guaranteed. \$10 per 100; \$90 per 1,000. Harry Palmer, Middleport, N. Y. 4-5

DAY-OLD CHICKS—White and Brown Leghorns, \$9.00 and \$8.00 per 100 chicks. Ralph Lamer Hatchery, Zeeland, Mich., Box 122. 3-5

NOTHING BUT WHITE LEGHORNS—Baby chicks, \$15 per 100. The Elmore Farm, R. 3, Birdgeport, Conn. 4-6

BABY CHICKS—THIRTY leading varieties. \$12.00 to \$18.00 per 100. Safe delivery guaranteed. Hatching eggs, \$1.50 per 15; \$5.00 per 100. Catalog free. Miller Poultry Farm, Box T, Lancaster, Mo. 3-5

BABY CHICKS—Barred Rocks \$10 per hundred. Mrs. F. Unger, Route 1, Lewisburg, O. 3-5

TOM BARRON STRAIN English Leghorn chicks from trap-nested stock. March and April, \$11.00 per 100; May, 10.00; June, \$9.00. Also hatching eggs. W. L. Sarson, Belvidere, N. J. 3-5

BABY CHICKS FROM my Young's Strain Single Comb White Leghorns, bred for size. Vigor and heavy egg production. Satisfaction guaranteed. Large orders filled. Catalog free. Holland Hatchery, W. Van Apple-dorn, Holland, Mich. 3-5

BABY CHICKS AND ducklings. Single Comb White Leghorns 10c each; Pekin ducks 20c each. White Feather Poultry Farm, Ransonville, N. Y. 3-6

BABY CHICKS, 8c and up; expressage paid; 10 varieties. Order now for early delivery. Sale sheet free. Fine stock. South Kenton Poultry Farm, Kenton, Ohio. 2-5

BABY CHICKS FROM STANDARD bred S. C. White and Brown Leghorns, bred to lay large white eggs, \$9.00 per 100; \$85.00 per 1000. Safe arrival guaranteed. Catalog free. Wolverine Hatchery, Box 2221, Zeeland, Mich. 2-5

WHITE EGG FARMS baby chix. Wyck-off strain, as good as the best, \$10.00 per 100. Also hatching eggs and stock for sale. William Clarke, Mt. Vernon, Ill. R. 8. 2-4
Comb White Leghorns. Chicks that live \$10 per 100. Richard Schwartz, Lomira, Wis. 3-6

FOR SALE—DAY OLD chicks, 8 cents each. Eggs, eight standard varieties, 8 cents each. Select matings. 120-egg copper tank incubator, \$3.50. Freight prepaid. Golden Rule Incubator Co., Middletown, Ind. 3-5

50,000 BABY CHICKS—Three and six weeks chicks. S. C. White, Buff, Brown Leghorns, Black Minorcas, Barred Rocks. Hatching eggs. Catalog, stamp. Failing Poultry Farm, La Fargeville, N. Y. 3-6

BABY CHICKS. Young's strain. White Leghorns, 9c; Brown Leghorns, 9c; Barred Rocks, 11c each. M. Knolls Hatchery, Holland, Mich. 2-6

DUCKS.

LARGE PEKIN DUCK eggs for setting, \$1.25 per dozen. Day-old ducklings, 25c. Emil Schaefer, Mamaronick, N. Y. 5

MAMMOTH PEKIN DUCKS—Prize winners. Large sized ducks, strong, healthy stock. Good egg-laying strain and layers of large white fertile eggs. Prices reasonable. J. E. Meloy, Catlettsburgh, Ky. 5-6

MAMMOTH PEKIN DUCKS—Prize winners. Eggs \$1.50 per dozen. Mary Hire, Route 1, Anderson, Indiana. 5

EGGS FROM ENGLISH Penciled Indian Runner Ducks, \$1 per 15. George Hagedorn, Linn Grove, Ia. 5-7

ROUEN DUCK EGGS from 10 and 11-lb. strain; 1st prize Chicago, Mid-West. Harvey Young, Osco, Ill. 5

ENGLISH PENCILED AMERICAN Indian Runner Ducks. Extra good layers. 30 eggs, \$1.25; 100 eggs, \$4.00. J. H. Blood, Windsor, Vermont. 5-7

FIRST SPECIAL MADISON Square. Winners 11 successive years. Runner Duck eggs, stock and ducklings. Gaebel Brothers, Morristown, New Jersey. 5-6

ROSEMOUNT DUCKS! DUCKS!! DUCKS! Six varieties. Catalog now ready. Franklin, Pa. 2-7

HATCHING EGGS—White and Colored Muscovy ducks. Blue ribbon winners. Pens headed by 14-lb. drakes. L. Hammond, Burnt Hills, N. Y. 3-5

BUFF DUCK EGGS, \$1.50 per 24. I will replace unfertile eggs. Alex J. Fix, Monroe, Mich. 3-5

WHITE RUNNER DUCKS—Heavy layers. White eggs, 28 for \$2.00. W. R. Scrivner, Dahlgren, Ill. 3-5

WHITE PEKIN DUCK eggs, 10c; ducklings, 20c. Woodford Poultry Farm, Route 10, Cincinnati, O. 3-5

WHITE PEKIN DUCK eggs, \$1.00 per setting. Extra fine stock. R. L. Criger, Covington, Ky. 3-5

PEKIN DUCK EGGS from first prize winners Greater Chicago Show, 1916. White egg strain. Farm raised, vigorous stock. Orders booked now for young breeders. Prices reasonable. Alfred Hobein, Barrington, Ill. 3-5

MAMMOTH PEKIN DUCKS—(Rankin). Eggs from choice stock, \$1 per 12; 100 for \$8. Springbranch Poultry Farm, Belleville, O. 3-5

PURE WHITE INDIAN Runner Duck eggs from first prize winners. "Every-day" layers of pure white eggs. I guarantee to please you—everybody. Mrs. S. F. Bullard, Harvel, Ill., R. 2. 3-5

MY ROUENS NEVER fail to win wherever exhibited. Prices reasonable. Eggs in season. B. M. Owens, Shiloh, O. 3-5

MAMMOTH PEKIN DUCK eggs, \$1.25 setting. Woodland Farm, New Lenox, Ill. 3-5

IF INTERESTED IN REAL runners, look for my ad on page 794. 3-5

EGGS FROM PRIZE winning mammoth Pekin Ducks, \$1 per 11. Eli F. Hersey, Parkersburg, Iowa. 4-6

CHOICE BUFF ORPINGTON Duck eggs, 15 for \$2. S. Colter, Rock Creek, Ohio. 4-6

OUR 221-EGG STRAIN Pure Fawn Indian Runner Ducks will improve your stock. Winners all principal shows. Eggs \$1.50 per dozen. F. L. Reinhart, Ottumwa, Iowa. 4-6

WHITE MUSCOVY DUCKS and eggs for sale. Wm. Shuler, Berrien Springs, Mich. 4-5

WHITE INDIAN RUNNER Duck eggs, \$1 per 13. Lloyd Waltman, Birmingham, Iowa. 4-6

UPRIGHT RACY WHITE Runner ducks—White egg strain. Excellent layers. 15 eggs \$1; 100 eggs \$5. Leroy McKinzie, Independence, Ind. 3-5

INDIAN RUNNER DUCKS—White eggers, \$1 for 15 eggs, prepaid; 100 for \$4 by express. W. E. Moore, Beallsville, Ohio. 4-5

DUCKS—ONLY DUCKS. If your chickens don't lay enough eggs to pay you, raise ducks from a strain that will. Indian Runners and Buff Orpingtons. Booklet free. Write today. Walter Raushenberger, Souderton, Pa. 4-5

BUFF ORPINGTON DUCKS—Eggs for hatching. Mating list. Earl W. Lowell, Sharon, Wis., Route 2. 4-6

BLUE MUSCOVY DUCKS—This new variety is proving very popular. A limited number of eggs for sale. Orders filled in rotation. F. G. Hasselman, Central Ave. and 34th St., Indianapolis, Ind. 3-5

TRUE FAWN AND WHITE Runner ducks. 13 eggs \$1. W. H. Settle, Gridley, Ill. 3-5

WHITE RUNNER DUCKS—Good type white egg strain. Booklet free. C. & N. Cleaves, Timewell, Ill. 3-5

WHITE RUNNER DUCKS—Simpson's white egg strain, 13 for \$1; 100 for \$5. Lela Mahon, St. Peter, Ill. 3-5

PEKIN DUCKS, Rankin stock, for sale. Egg orders booked for early delivery in settings of hundred and thousand lots. August W. Schroeder, St. Peter, Ill. 11

FAWN AND WHITE, also pure White Runner ducks for sale. August W. Schroeder, St. Peter, Ill. 2

BUFF DUCKS. Prolific layers, large white eggs. Won all firsts, three seconds Tri-State Fair, Memphis, 1915. Eggs, \$1.50, \$2.50, \$3.50 per 13 delivered. Good hatch guaranteed. W. S. Alley, Forrest City, Ark. 2-5

BUFF ORPINGTON DUCKS—Eggs, first pen, \$2, and second pen \$1 per setting; \$6 per 100. T. P. Leland, New Comerstown, O. 3-6

AMERICA'S BEST BUFF ducks. Catalog. Eggs, \$2 and \$5. B. O. Swaim, Zionsville, Indiana. 4-6

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MAMMOTH BUFF, PIED Buff geese, Buff Orpington ducks. Jacob Leatherman, Wadsworth, Ohio. 3-5

WILD GEESE—\$10 a pr. Pea fowl. Aylesbury Dux. Dawson Bros., Franksville, Wis. 3-5

MAMMOTH TOULOUSE GEESE—High scoring first prize winners. Eggs 30 cents each. Fred Scholl, Memphis, Ind. 3-5

MAMMOTH BUFF GEESE are largest. Eggs catalog. Welday, Seville, O. 3-5

MAMMOTH TOULOUSE GEESE—(Davidson) Eggs 35c each. Springbranch Poultry Farm, Belleville, O. 3-5

LARGE TOULOUSE GEESE—Eggs from winners. Circular. P. Pfouts, Bucyrus, O. 3-5

TURKEYS.

AMERICA'S BEST Breeding Giant Bronze Turkeys. See our advertisement on page 820. 2-15-tr

EGGS, \$5.00 PER 12, from prize winning Mammoth Bronze turkeys. Mrs. E. E. Mark, Stronghurst, Ill. 5

WHITE HOLLAND TURKEYS. Eggs, \$3 per setting of 11. Also a yearling tom for sale. W. A. Smith, Burnt Prairie, Ill. 3-5

MAMMOTH BRONZE TURKEY eggs—Two yards. Son of first tom Madison Square, 1916, heads yard one. White Orpington eggs. Aldrich-Woolery strain. Mating list free. Mrs. Hall Williams, Nelson, Mo. 4-6

WHITE HOLLAND TURKEYS. Having changed my location, I am more able to furnish you with fresh eggs from my pure bred birds. Eggs, \$2.50 per 11. Rose Comb Brown Leghorns, \$1.00 per 15; \$5.00 per 100. Frank Shetler, Vienna, Ill. 3-5

SUCCESSFUL POULTRY FARM—They are here for you. White Holland turkey eggs from pure white birds, 11 eggs, \$2.50, prepaid. Let us book your order early. Mrs. Roy Davison, Sabetha, Kans. 3-5

LARGEST WHITE HOLLAND turkey breeding flock in Indiana. 35-pound toms, 21-pound hens. Eggs, 11 for \$2.50. Circular free. J. C. Hodges, Waterloo, Ind. 3-5

MORGAN'S GIANT Bronze turkeys. Prize winners, with enormous bone and fine markings. Eggs our specialty. Circular giving prizes won free. B. F. Morgan, Independence, Ind. 3-5

MAMMOTH BRONZE 55-pound strain. Winners at Madison Square, St. Louis, Chicago. Eggs 50c each. Lorenz & Co., Perryville, Mo. 3-5

AMERICA'S LEADING WINNERS in Giant Bronze Turkeys and Partridge Plymouth Rocks. See our adv. on page 820. 2-tr

PIGEONS.

FOR SALE—MATED Plymouth Rock Homers. Davies, 8624 Sangamon, Chicago. 5

WANTED—5,000 COMMON or Homer Pigeons. Pay at least 25c pair. Market Poultry wanted. D. Gilbert, 1128 Palmer St., Philadelphia, Pa. 1

"PIGEONS"—the finest pigeon magazine, \$1.00 a year, or send 25 cents for four months' trial. Pigeons Magazine, 953 Advertising Bldg., Chicago. 5-14-tr

\$\$\$ IN PIGEONS! Start raising squabs for market or breeding purposes. Make big profits with our Jumbo Pigeons. We teach you. Large, free, illustrated, instructive circulars. Providence Squab Co., Providence, R. I. 11-15-yr

I OFFER GUARANTEED mated Homers in any quantity at \$1 pair and challenge squab companies or dealers to produce better stock at twice this price. Beautiful white Homers, \$1.50 pair. Get my prices on Runts, Carneaux, Maltese Hens and save dollars. Squab Manuel 25c. Charles A. Gilbert, 346 N. American St., Philadelphia, Pa. 4

BELGIAN CARNEAUX PIGEONS breed fastest, raise largest squabs. Free booklet. C. D. Hevenor Company, Tonawanda, N. Y. 5

PHEASANTS.

FOR SALE—A SUPERB lot of Golden, Silver and Amherst pheasants just right for breeding this Spring and Summer. I am now also booking orders for eggs of the following varieties, Mongolian, Ringneck, Chinese, Golden, Silver, Amherst and Reeves. Wood duck, Mallard and Gray Call duck eggs. All the eggs I ship are guaranteed to be from non-related, pure bred, strong, healthy birds, correctly mated; all eggs are guaranteed not to be over three days old when they leave my farm. I also manufacture a full line of special foods for the successful raising of young pheasants and wild water fowl, also for feeding the old birds in the year round. Write for prices. Wallace Evans Game Farm, St. Charles, Ill. Largest and most successful breeders of pheasants, wild water fowl, deer, etc., in the world. 7-15-tr

PHEASANTS AFFORD great pleasure and profit. 20 cents for booklet, "The Pheasant Industry." Stamp for prices. Oak Grove Pheasantry, North Manchester, Ind. 3-5

1,000 PHEASANTS WANTED—Complete book on breeding, colored plates, 75c. J. E. Cowles, Smiths Grove, Ky. 3-5

PHEASANT EGGS FOR HATCHING—Ringnecks, 15 for \$3; Golden, 15 for \$4; Silvers, 15 for \$5. Cheaper in quantities. Send for list. Wm. F. Grimm, Antigo, Wis. 3-5

RINGNECK PHEASANT EGGS—\$2.50 per fifteen. G. F. Corrigan, Wheaton, Ill. 5

PHEASANTS AT REASONABLE prices. Will also buy and exchange pheasants. S. Whann, Polk, Pa. 4-5

ENGLISH PHEASANT EGGS—\$3 per dozen. Magnificent colored and full plumaged birds. F. L. Reinhart, Ottumwa, Iowa. 4-6

BELGIAN HARES.

BELGIAN HARES—Get our quotations. Hare book and catalog, five stamps. Failing Poultry Farm, Lafargeville, N. Y. 4-6

BELGIAN HARES and White Polish rabbits, 75c each. Woodford Poultry Farm, Route 10, Cincinnati, O. 3-5

FOR SALE—PEDIGREED Flemish Giants, Rufus Red Belgians, Checkered Giants, Albino, Grey Belgians. Satisfaction guaranteed. Belgian Yards, Poughkeepsie, N. Y. 5-7

FLEMISH GIANTS, RUFUS Red, Belgian Lopears, German Greys, Checkered Giants. Satisfaction guaranteed. Park View Rabbitry, Poughkeepsie, N. Y. 3-5

BELGIAN HARES—CHOICE young stock at reasonable prices. Singles or pairs. Crescent Rabbitry, 611 Grove Street, Champaign, Illinois. 5

PEDIGREED BELGIANS. The finest that grow. Fine pets. Meat better than chicken. Hare book five red stamps. Moss Rabbitry, Route 4, Jackson, Tenn. 4-6

RABBITS—35 CENTS each, young stock; white, black and Belgian hares; also breeders. Extra does and bucks. John Hass, Bettendorf, Iowa. 4-5

RABBITS AND HARES.

BLACK SIBERIAN HARE — The most profitable fur-bearing animal. Send 25 cents for booklet and price list. Siberian Hare Co., Hamilton, Canada. 5-7

GUINEAS.

PEARL GUINEA EGGS—\$1.45 per 30. Miss Alma Eichelmann, R. 4, Waterloo, Ill. 4-6

GUINEA PIGS.

GUINEA PIGS—Raise them for us. We buy young stock. Big demand. Easy to raise. We furnish full particulars and breeding stock. Enclose stamp. Cavy Sales Co., Springfield, Ohio. 5-7

DANDY GOOD GUINEA pigs, \$2.50 a pair. L. R. Hays, 3140 Maplewood Ave., Toledo, O. 3-5

BOOKLET BREEDING GUINEA Pigs, 15c. Warren Fluck, East Greenville, Pa. 4-16-1yr

DOGS.

AIREDALE PUPPIES — \$5.00 each up. Hummer Poultry Yards, Campbellstown, O. 5

BEAUTIFUL REGISTRABLE Scotch Collie pups, \$6. Meadow Farm, Coulterville, Illinois. 5

COLLIE PUPS—Golden Sable, full white collars. Imported. "Greystone"—"Tyton" blood. Mrs. J. E. Walcott, Angola, Ind. 3-5

REGISTERED COLLIE BROOD matron. Two litters of Sables, one litter of White Collie puppies, pedigreed, ten dollars and upward. Mrs. D. A. Farwell, Houghton, N. Y. 5

REGISTERED COLLIE PUPS—Woodland Laddie at stud. Woodland Collie Kennels, New Lenox, Ill. 3-5

FOX TERRIERS—The poultryman's dog. \$5 up. F. M. Kaley, Bridgeport, Ill. 3-5

PEDIGREED COLLIE pups. Males, \$10.00; females, \$5.00. Plummer McCullough, Mercer, Pa. 9-15-tr

SCOTCH COLLIES—Get our quotations. Catalog, stamp. Failing Poultry Farm, Lafargeville, N. Y. 4-6

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CYPHERS 144-EGG incubator \$10. Banner 75-egg \$7. Large Prairie State brooder \$7.50. Folding brooder yards \$1.50. C. A. Short, Alpena, Mich. 5

SACRIFICE SALE OF POULTRY Equipment. Best cash offer secures the following: 2 large laying houses (portable), size 18 by 45; one single colony house (portable), size 10 by 12; one single colony house (portable), size 10 by 18; one double colony house (portable), size 10 by 34; one Cyphers incubator, 4 compartments, 248-egg capacity; one Banta incubator, 248-egg capacity; one Sectional Paradise brooder; one hover; one bone cutter, good size; and many minor appliances, including roosts, nests, egg cases, drinking fountains, etc. All in excellent condition. Will sell in entire lot or separate. Address M. Kortum, 2660 Burling Street, Chicago, Ills. Tel. Lincoln 4165. 5

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YOUNG POULTRYMAN DESIRES position as manager or assistant on poultry farm in Eastern or Middle Western state. Single, thoroly competent and efficient. Seven years practical experience in Eastern states. Artificial hatching and rearing chickens a specialty. Address M. C. M., c/o American Poultry Journal. 5

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MEN OF IDEAS and inventive ability should write for new lists of "Needed Inventions," "Patent Buyers," and "How to Get Your Patent and Your Money." Randolph & Co., Patent Attorneys, Dept. 319, Washington, D. C. 10-15-1yr

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LET US SUBMIT sample of YOUR letter-head for approval. Send YOUR copy now. Leach, McArthur, Ohio. 5-7

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EGG CASES FOR SALE CHEAP. (Second hand.) Complete with flats and fillers; in fine condition. Prompt shipments any quantity. Get our prices. Empty Package Supply Co., Dept. R, Kent Ave. and So. 9th St., Brooklyn, N. Y. 5-6

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POULTRY AND FRUIT FARM, \$2,300; only \$700 cash needed. Fully equipped poultry and fruit farm offered at a sacrifice price for immediate sale, only 1½ miles to station, mail delivered, dealers call, convenient to school; good 2-story house, gas and fixtures; fine cellar; new 80-ft. laying house; large brooder house; heated by hot water; barn; work shop; carriage house; 5¼ acres of bearing grapes; one acre of blackberries; 100 peach, 25 pear and apple, cherry and plum. Will include some stock and implements; \$2,300 takes it. Write for photograph and new spring circular filled with bargains. E. A. Strout Farm Agency, Land Title Bldg., Philadelphia, Pa., or Adams Bldg., Vine-land, N. J. 5

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M. Uhl & Co.—From the 50 baby chicks bought from you I won seven prizes and a handsome silver loving cup for best display on an entry of thirteen of your birds; 2nd and 3rd cockerel; 2nd, 3rd and 4th pullets; cockerel 2nd pen, and four pullets 3rd pen. I am highly pleased to recommend your concern for this high quality and the fairness shown me. Respectfully yours,

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If so I would like you to see my SPECIAL PRICES

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U. R. Fishel Needs Room for the several thousand chicks I have out, and to make room I am offering the greatest bargains ever in White Rocks. List free; send for it. Remember, when you buy U. R. Fishel's White Rocks you secure the best in poultry.

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OFFICIALLY Awarded CHAMPIONSHIP WHITE ORPINGTON MALE Two Years in Succession

At Chicago Coliseum, Dec., 1914, won over the Madison Square Garden first prize winners.

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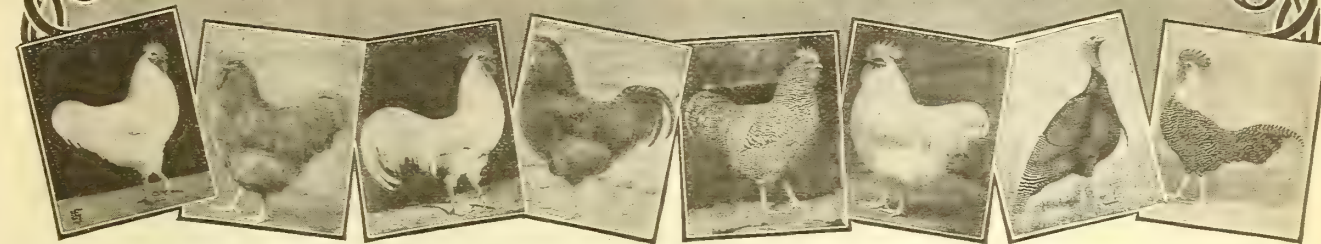
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EGGS HALF PRICE from Bred-to-Lay stock that will produce winners. BABY CHICKS for sale.

BARGAINS IN BREEDERS NOW. Not necessary to wait until June. You are now offered the opportunity to raise some of the best chicks of the year. The highest winning birds are often hatched in June. My Sept. hatched pullets began laying in March and April. Free catalog.

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BABY CHICKS, 10c to 15c. Stock, \$1.50 up. Eggs, \$5 to \$6 per 100. Reds, Rocks, Wyandottes, Orpingtons, White Leghorns, Toulouse geese, Pekin and Runner ducks, Red turkeys, New Zealand and Pet rabbits. Catalog free. G. A. Mitchell, Freeport, Ill.

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MY ROSE COMB BLACK MINORCA pens are headed by first cock Cleveland International Rose Comb Black Minorca Club Meet, 1916, second cock Hagerstown, third cock Ohio State Fair, utility pens. S. C. B. Minorcas, White Leghorns, Buff and White Wyandottes. Dan C. Meek Farm, Coshocton, O. 2-16-1yr



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3-3



DAY-OLD CHICKS FOR SALE at cut prices. Eleven varieties, hatched by one of the oldest hatchers in the country. Be sure and write for our latest circular; it is free. Old Honesty Hatchery, New Washington, O.

5-1



FIFTY VARIETIES OF FINE thoroughbred poultry. Cochins, Brahmas, Langshans, Rocks, Wyandottes, Houdans, Orpingtons, R. I. Reds, Leghorns, Polish, Hamburgs, Spanish, Ducks, Turkeys, Geese. Incubators and Brooders. Large illustrated catalog mailed for 4c. C. M. Atwood, Box A7, Dundee, Minn.

4-16-1f



GIANT 52-LB. BRONZE turkeys from New York winners. Toulouse and Embden geese. No better blood in America. 10 eggs \$3.00. Also Aylesbury ducks, Orpingtons, Langshans, Leghorns, Hamburgs, Reds and Guineas. Eggs reasonable. Circular free. C. R. Smith, Burnt Prairie, Ill.

3-3



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BARGAIN—EGGS from a select pen of Kellerstrass highest priced birds. As I have completed hatching for this spring, will make a remarkable low offer on eggs from this pen of choice birds and will absolutely guarantee satisfaction, for only \$1.50 per 15. J. K. Searles, Atchison, Kansas.

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BABY CHICKS from pure bred Barred Plymouth Rocks of quick growth and heavy laying strain. Chicks, \$10.00 per 100. Eggs from same breed at \$1.50 per setting of 15. Satisfaction guaranteed. Mrs. W. F. Cristman, Scottsville, Kansas, Sunflower Hatchery.

5-1



PRIZE WINNING MAMMOTH Bronze turkeys; toms, 40 lbs.; hens, 21 to 26 lbs. Big bone and frame, clear white edging and well bronzed. Eggs, 50c each. Mating list free. Mrs. A. L. Ackerman, Rich Hill, Mo., R. 6.

4-2



DARK CORNISH—My specialty since 1892. Every bird the offspring of fine imported stock. Eight pens for this season. Before buying eggs for hatching, send for my mating list. It is free. T. D. Moore, Hopkinsville, Kentucky, Route No. 7.

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PEDIGREED TRAP-NESTED S. C. White Orpington yearling hens, pullets and cockerels. Pens mated with cocks and hens only. Eggs settings, \$1.50 and \$3.00. Prices quoted on 100 or more eggs. C. W. Binns, East Syracuse, N. Y., Box 646.

5-1



ROSE COMB REDS exclusively from Buschman's \$30 setting. Blue ribbon winners. Heavy winter layers. After May list 15 eggs from Pen 1, \$2.00; from Farm Range, \$1.00, or \$4.50 per 100. Catalog free. James D. Pace, Route 6, Mt. Vernon, Ill.

5-1



ROSE COMB BARRED Rocks—the coming Rock. Use our Rose Comb blood in Single Comb flocks and breed frostproof combs. Cockerels, pullets, eggs, baby chicks. Circular free. S. B. Wenger, South English, Iowa. Pres. R. C. B. R. Club.

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SINGLE COMB RUBY Reds, Rose Comb Reds (Bean strain direct). Have mated seven of best pens I ever put together. All rich deep red. Fine in type. Eggs, \$1.50 to \$3.50 per 15. Mating list free. Fred Oertel, Brighton, Illinois.

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WANT SOME STRONGLY fertile eggs from my big, healthy, vigorous 200-egg record winter layers? S. C. White Orpingtons, trapnested, bred in line. Selected eggs, now half price, \$2.50 setting. Send for mating list today. T. P. Dougherty, R. 102, Tyrone, Pa.

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4-1



BABY CHICKS AND EGGS—Barred Plymouth Rocks, White Rocks, Buff Orpingtons, White Orpingtons, S. C. R. I. Reds, S. C. White Leghorns, S. C. Brown Leghorns. Guarantee safe arrival. Write for free circulars. Name breed wanted. Martin Michelson, 232 5th St., Aurora, Illinois.

5-1



WHITE WYANDOTTES, Single Comb Reds. Poorman's 200-egg blood. Eggs, 10c each. Preparedness is the watchword. Start right. Demand for egg-bred stock is greater than supply. Prepare, send order now. Satisfaction guaranteed. E. R. Mosser, Hendricks, W. Va.

3-3



S. C. W. LEGHORNS ONLY. Big reduction on eggs and chicks from my trap-nested pens. Can fill orders up to 2000. Ten-week old pullets and older. Can save you money on best coal burning brooder stove. Catalog free. Address Polo Leghorn Farm, Box 441, Polo, Ill.

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WHITE WYANDOTTES—EGGS at half price, \$2.50, \$1.75 and \$1.00 per 15. We are offering some splendid birds for sale cheap. Better write me your wants. Satisfaction guaranteed. Illustrated catalog and mating list free. Snow Drop Poultry Farm, Mystic, Iowa.

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COW'S MILK DRY—For pigs, calves or chickens. It is a separator milk, Dry, sold by the pound. You add the water. No Filler or Medicine. The real food for the laying hen or milk fed broiler. W. A. Randel & Co., R. No. 7, Seymour, Conn.

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EGGS for Hatching FROM IMPORTED GOLDEN Campine, Single Comb Black and White Minorcas, Single Comb Brown Leghorns, both pullet and cockerel line, and White Wyandottes from laying strain. Eggs for hatching. C. Jackson, Box M, Buchtel, Ohio.

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GET OUR 1916 CATALOG TRAP-NESTED "PATRICIAN" Single Comb Rhode Island Reds and White Leghorns. Mme. Patti's record, 208 eggs; Miss Constance's, 223. Pedigree cockerels, \$1.50 up, subject to your approval. Guaranteed hatching eggs, \$1.25 up. Red-Leg Poultry Colony, Box 75, Owego, N. Y.

3-3



MAIL ME ONE DIME FOR INFORMATION how to make a food mixture that will make your hens produce eggs the year around; makes young chicks grow quick and strong; raise 95%. Expert references. Address F. X. Weinman, Olean, N. Y. Mention A. P. J.

5-3



SwissMilk Goats. Mink. TOGGENBURG, SAANEN, reliable milkers, mink, guinea pigs, pea fowl, swan. Illustrated price list, 10 cents. Golden West Goat Reserve, Dept. 29, Saint Paul, Arkansas.

4-1

Here is Your Chance to Save Money

Simplex Supply House, Pontiac Building, Chicago, Ill.
Gentlemen:—The Simplex "Faultless" Poultry Feeder ordered from you some time ago has given entire satisfaction and is indeed "faultless" in every particular in our opinion, as is expressed by the enclosed

order for eight more, together with order for twelve Grit Boxes and one-half dozen Dry Mash Feeders, all of which have been tested out to our entire satisfaction.
Thanking you for past courtesies, promptness and square-dealing, I remain,

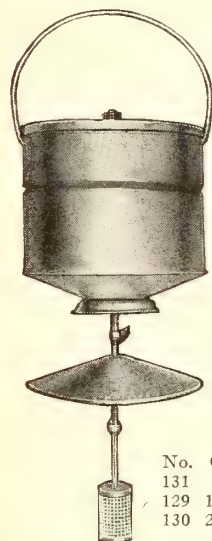
Yours very truly,
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6-Quart
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The Original



The original "Kant Klog" automatic feeder; feeds anything from millet seed to whole corn, either mixed or separate. Swinging pendulum motion — absolutely adjustable — simply impossible to clog.

Birds peck at grain in bait carrier, swinging pendulum and grain drops from cup under hopper to deflector and then on ground.

No.	Capacity.	Retail Price.	Our Net Price.
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**Save 20% to 33 1/3%
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We specialize in the manufacture of automatic feeders, which save more time and more feed than any other appliance in the poultry yard. No well equipped poultry farm is seen today where automatic feeders are not used. On large farms they save the wages of at least one man. For small flocks they can not be excelled. Filling the feeder once a week is a good deal less work than feeding several times a day. There will be no grain lying around on the ground, no loss from pilfering birds, rats and mice. No staying at home simply to feed the chickens.

In addition to cutting down the feed bills, automatic feeders increase the egg production of the hens. They will be in laying condition at all times, as these feeders give them the proper exercise and they digest every bit of grain they eat.

Be up-to-date and increase the profit from these fowls at least 25% by the use of automatic feeders. Made in styles and sizes shown hereon. We guarantee they give absolute satisfaction. If they do not, we refund the money. That's the guarantee under which we sell all our products—direct to the consumer at wholesale prices.

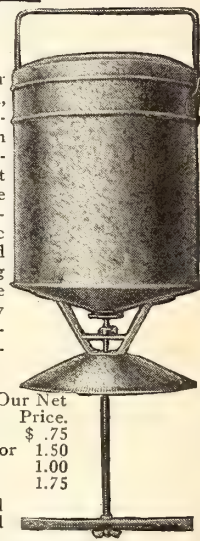
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REMEMBER—Your money is refunded promptly if you are not satisfied.

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Smaller
Sizes
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16 Quarts
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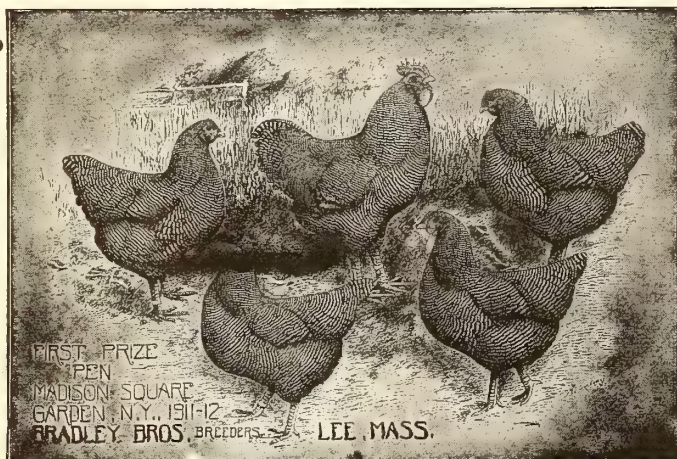


This "Faultless" feeder feeds any kind of grain, either mixed or separate. Rotary pendulum motion, absolutely adjustable and cannot clog. It represents the biggest value ever offered in automatic feeders. Furnished complete, including cover and bail, at the following ridiculously low prices, made possible only by our enormous output:

No.	Capac.	Retail Price.	Our Net Price.
151	5 Qt..	\$1.00	.75
*152	1/4 Bu..	1.00 2 for	1.50
153	1/2 Bu..	1.50	1.00
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Our money-saving catalog describing Feeders, Brooders, Incubators, Grain Sprouters, Fountains, Feeding Troughs, Mash Hoppers, Grit Boxes, Brood Coops, Exhibition Coops, Trap Nests, Egg Carriers, Leg Bands and various Remedies and Preparations of merit will be sent upon request or upon receipt of your order from this advertisement.



"At the Canton Show, when the State Barred Rock Club met, we won with your strain, 1st, 3rd and 5th Cockerel; color special on Cockerel; 5th Cock; 2nd Hen; 2nd Pullet and color special on Pullet; also 2nd Cockerel bred Pullet. We won the state cup for the best four exhibition birds, viz.: Cock, Cockerel, Hen and Pullet, and also special ribbon for the State Champion Cockerel. The above winnings were made in a class of nearly 300 Barred Rocks. The 1st Cockerel, 5th Cock and 2nd Hen were from eggs purchased from you."

FRED ANTHONY & SON

November, 1915.

North Lawrence, Ohio.

BRADLEY BROS., LEE, MASS.

Barred P. Rocks

we bred and raised, again hold their place as FIRST WINNERS at many leading shows.

POINTS OF OUR RECORDS AT NEW YORK:

At Madison Square Garden: 4 Firsts, 4 Seconds, 3 Third Prizes, besides other awards have been won by us at a single Madison Square Garden Show. Three times have Males of our breeding won 4 of the Five prizes offered in the class including firsts.

No other exhibitor has ever won THREE FIRST PRIZES at a Madison Square Garden Show where we competed. The highest cash price ever actually paid for a B. P. Rock so far as has come to our knowledge was given for a male we bred and raised.

Three times have Males of our breeding won four of the five prizes offered in the class, including FIRSTS.

At our last Madison Square exhibit, 1911-12, we won 6 prizes on males; 3 prizes on females; both 1st and 2d yards; \$25.00 Cash Special for best display (won by nearly double the points of the closest competitor), also Silver Cup for best pen.

29 of our "Lee Belle" Females have been First Winners at Madison Square Garden Shows alone, and 60 Winning Males at Madison Square Garden Shows have been bred by us.

Many birds have been sent by us to customers in England, Russia, Japan, South Africa and other Foreign Countries. They arrive safely and give good satisfaction.

Eggs for Hatching We are selling eggs for hatching from our best pens at \$10 per 12; \$20 per 26; \$25 per 33. These, we believe, will produce many 1st winners for our customers the coming season. Orders should be booked at once; even for later delivery. \$5 per 12 after June 1st.

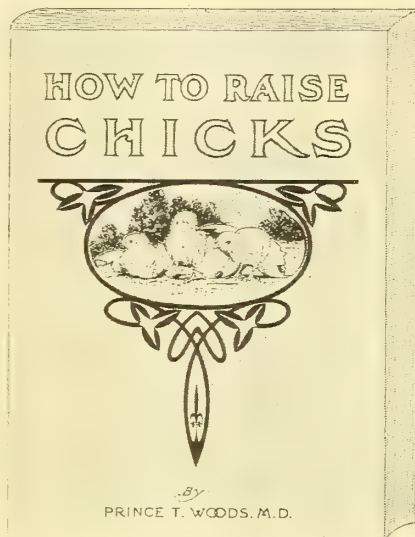
Selected Breeding and Show Birds, Fancy Specimens—Males and Females For Sale. Ringy, blue-tinged, sharp barred birds from our best pens. We never had a finer lot of birds for every demand. Price list free. Illustrated circular free. Our breeders for sale after May 20th, 1916. We do not sell baby chicks.

BRADLEY BROS., Box 909, LEE, MASSACHUSETTS

How to Raise Chicks

By Prince T. Woods, M. D.

Managing Editor American Poultry Journal



A guide to success in this, the most difficult, poultry problem. The results of years of practical experience and study. Written in plain language by a man who knows how, and how to teach others.

This book will save many dollars

for any poultryman, but it is indispensable to the beginner.

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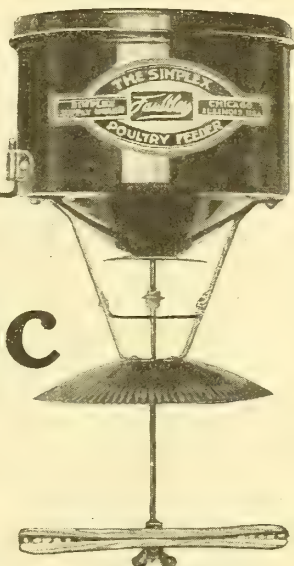
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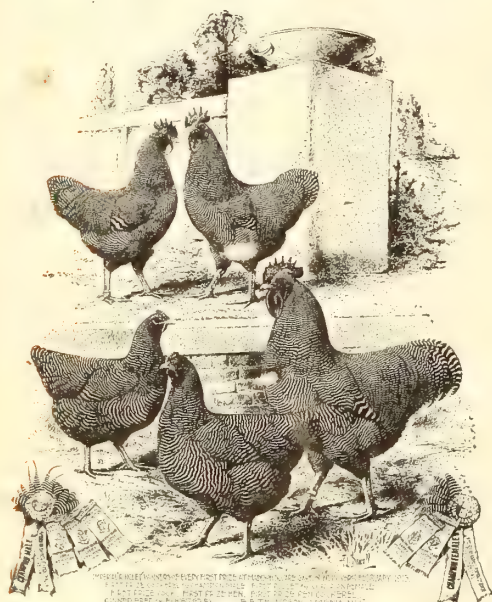
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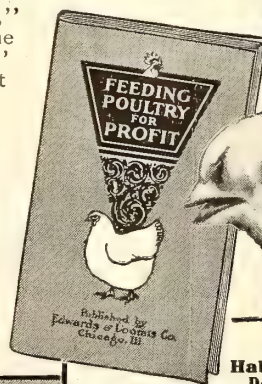
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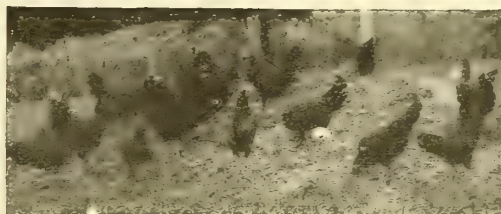
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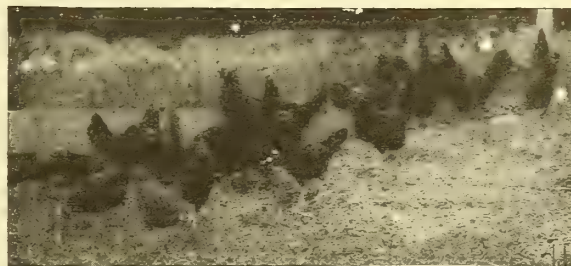
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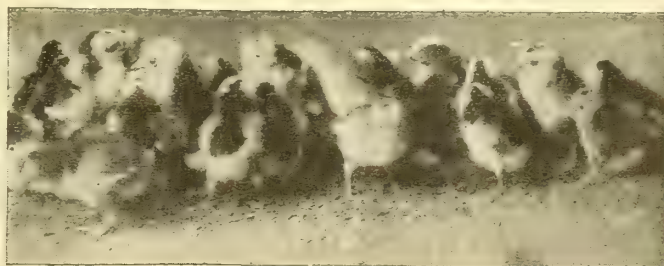
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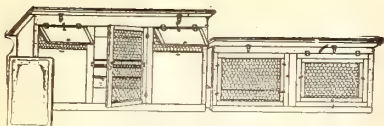
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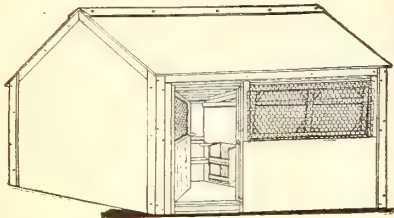
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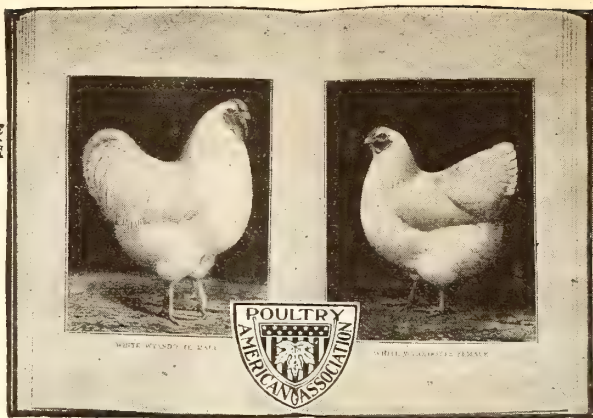
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TABLE OF CONTENTS

	PAGE
J. H. DREVENSTEDT, Pioneer Poultryman.....	847
SEX CONTROL IN POULTRY BREEDING..... <i>Herb E. Sharp</i>	848
THE WHITE ORPINGTON—A LEADING VARIETY..... <i>John A. Carruthers</i>	851
THE REASON I RAISE WHITE ORPINGTONS..... <i>James Emmet Royce</i>	852
NET COST OF PRODUCING A DOZEN EGGS..... <i>A. C. Drury</i>	853
NET COST OF PRODUCING A DOZEN EGGS..... <i>A. J. Myers</i>	854
EDITORIAL	856
The Breed Standards—"Clean Up" in Advertising—Status of Reading Notices—Egg Cost Article Contest—Aldrich Orpington Article Contest—Our Cover.	
DR. WOODS' NOTES AND COMMENT.....	860
HORTICULTURE FOR POULTRY KEEPERS..... <i>Thos. F. Rigg</i>	867
READERS' EXPERIENCE DEPARTMENT.....	872
AMERICAN POULTRY ASSOCIATION ELECTION.....	878
QUESTIONS AND ANSWERS.....	879
HOME AND THE TABLE..... <i>Helen T. Woods</i>	884
MONTHLY PRIZE CONTEST DEPARTMENT.....	887
RECENT INVENTIONS FOR POULTRYMEN..... <i>Lester L. Sargent</i>	890
CHICK TIME HINTS AND HELPS FOR BEGINNERS.....	892



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INDEX TO GUARANTEED ADVERTISERS

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"A" and "D" Mfg. Co., Chicago, Ill.....	846	Corning Egg Farm, Bound Brook, N. J.....	843	Hubbard, C. H., Lime Rock, Conn.....	883
Abbott, O. M., Whiteland, Ind.....	866	Corn Products Refining Co., New York.....	878	Hummel, S. A., Freeport, Ill.....	893
Aldrich Poultry Farm, Columbus, O.....	862	Crane, Chas. M., Elkhorn, Wis.....	845	International Glue Co., Boston, Mass.....	876
Allen Co., S. L., Philadelphia, Pa.....	870	Cross, Frank, Montague, Mass.....	895	Ironclad Incubator Co., Racine, Wis.....	893
Almendinger, A. F., Buffalo, N. Y.....	882	Crotser, E. A., Fulton, Mich.....	845	Ives, Ives & Ives, Guilford, Conn.....	880
Alum. Marker Works, Beaver Falls, Pa.....	895	Cudahy Packing Co., Chicago, Ill.....	884	Jacobus, M. R., Ridgefield, N. J.....	880
American Poul. Advocate, Syracuse, N. Y.....	893	Curtis, E. G., Atsion, N. J.....	866	Jensen, Carl J., Waukegan, Ill.....	864
American Poultry Journal, Chicago.....	881-840	Darling & Co., Chicago, Ill.....	866	Johnson, Frank, Chicago, Ill.....	880
Am. School of Poul. Industry, Missouri.....	866	Davis, M. C., Woodstock, Ill.....	882	Johnson Co., M. M., Clay Center, Neb.....	886
Andrews, J. W., Dighton, Mass.....	880	Dawdy & Dawdy, Greenville, Ill.....	888	Kaup, F. A., Glen Ellyn, Ill.....	885
Andrews Co., O. B., Chattanooga, Tenn.....	903	Deege, Grover, Quincy, Ill.....	895	Keefe, C. A., Muskegon, Mich.....	893
Andrews, S. H., Mineola, N. Y.....	895	Deer, F. L., Franklin, Ind.....	888	Keeler, Chas. V., Winamac, Ind.....	845
Apple Grove Poultry Farm, Delavan, Wis.....	868	Demmerger, L. J., Stewartsville, Ind.....	882	Keipper Cooping Co., Milwaukee, Wis.....	895
Aracady Farm Milling Co., Rondout, Ill.....	868	Deming, H. P., Winsted, Conn.....	885	Keller, Ira C., Prospect, Ohio.....	873
Arnold, Aug. D., Dillsburg, Pa.....	885	Des Moines Inc. Co., Des Moines, Iowa.....	840	Kennedy, J. Fred N., Birch Cliff, Can.....	878
Astle, Milan C., Mommence, Ill.....	891	Devoe's, Dodgeville, Wis.....	881	Keyes-Davis Co., Muncie, Ind.....	894
Atterton, W. B., Randolph, Mass.....	878	Doerhoefer, Lewes P., Anchorage, Ky.....	886	Kitselman Bros., Battle Creek, Mich.....	893
Atlas Company, Lincoln, N. J.....	896	Eakin, F. M., Bucyrus, Ohio.....	846	Klein-Lambert Co., Chicago, Ill.....	869
Atsatt Bros., Mattapoisett, Mass.....	877	Egg Preservative Co., New York, N. Y.....	883	Kulp, W. W., Pottstown, Pa.....	864
Automatic Trap Nest Co., Kenosha, Wis.....	880	Electric Spe. Co., Salt Lake City, Utah.....	889	Lakewood Farms, Holland, Mich.....	885
Balch & Brown, Manchester, Conn.....	873	Elliott Poul. & Fruit Farm, Mansfield, O.....	871	Lange, J. G., Detroit, Mich.....	888
Bales, J. S., Springfield, Ill.....	895	Everfresh Egg Farm, Ionia, Mich.....	893	Latham, C. H., Lancaster, Mass.....	863
Ball, W. J., Salem, Ohio.....	882	Everlay Farm, Methuen, Mass.....	889	Lee Co., Geo. H., Omaha, Neb.....	843
Banks, M. H., Dillsburg, Pa.....	888	Faha, Frank Jr., Dyersville, Iowa.....	839	Lee, Leo A., Chicago, Ill.....	893
Barker, M. S., Thornton, Ind.....	866	Felch, I. K., Natick, Mass.....	840	Leitner, C. H., Elgin, Ill.....	863
Barstow, Geo. N., Oneonta, N. Y.....	885	Fernbrook Farm, Albany, N. Y.....	880	Levy, S. M., New York City, N. Y.....	888
Bawden, John, Ridgetown, Canada.....	888	Ferris, P. J., Cuyahoga Falls, Ohio.....	895	Liberty Stove Co., Philadelphia, Pa.....	845
Bayerdorffer, M., Huguenot Pk., N. Y.....	882	Fishel & Son, J. C., Hope, Ind.....	862	Licene Co., Chicago, Ill.....	896
Beach, Geo. Watson, New York, N. Y.....	895	Fishel, U. R., Hope, Ind.....	867	Lily White Poul. Farm, Saginaw, Mich.....	877
Bean, I. W., So. Braintree, Mass.....	895	Fishel & Hasselman, Indianapolis, Ind.....	877	Lingeman, C., St. Louis, Mo.....	895
Bear Brook Poul. Farm, Wakefield, Mass.....	882	Fogg, N. V., Mt. Sterling, Ky.....	886	Lock, C. W., De Kalb, Ill.....	895
Belgian Hare, Holmes Park, Mo.....	901	Fourche Mountain Poul. Farm, Arkansas.....	845	Lo-Glo Elec. Incubator Co., New York.....	870
Bella Vista Farms Co., Kimmiswick, Mo.....	886	Foxhurst Farm, Lime Rock, Conn.....	858	Longfield Poultry Farm, Bluffton, Ind.....	871
Bella City Incubator Co., Racine, Wis.....	878	Frantz, O. C., Rocky Ford, Colo.....	864	McClave, Chas., New London, Ohio.....	888
Berberich, Rev. W., Groton, N. Y.....	888	Fraser, W. F., East Akron, Ohio.....	882	McConnell, J. V., Garden Grove, Cal.....	866
Bernard Co., Phillip, Sioux City, Iowa.....	892	French Co., R. T., Rochester, N. Y.....	891	McConnell, W. A., Richmond, Ill.....	896
Berry's Poultry Farm, Clarinda, Iowa.....	894	Friesner & Son, J. W., Bremen, Ohio.....	866	McDannell, M. O., Moline, Ill.....	860
Besse, C. W., Jefferson, Maine.....	896	Gamewell, J. A., Little Silver, N. J.....	846	McGrann, Frank, Lancaster, Pa.....	842
Beuy, Geo., Cedar Vale, Kansas.....	869	Garbutt, Cora B., Darien, Wis.....	839	Mahon, Elton C., Norwood, Tenn.....	888
Bird Bros., Meyersdale, Pa.....	843	Gassmann, Henry, Olney, Ill.....	893	Majestic Squab Co., Adel, Iowa.....	886
Blathford's Calf Meal Fcty., Illinois.....	873	Gensch, F. M., Onro, Wis.....	845	Mann Co., F. W., Milford, Mass.....	893
Blouse, Aug., Chicago, Ill.....	882	Gensemer Bros., Creston, Ohio.....	873	Martin, John S., Port Dover, Ont., Can.....	860
Blum, Barbara, New Washington, Ohio.....	895	Gerber, G. J., Dalton, Ohio.....	882	Martin, M. F., Chicago, Ill.....	888
Blum, Frank, New Washington, Ohio.....	895	Gilbert Poultry Farm, Haverhill, Mass.....	864	Martling Hennerly, Ridgefield, N. J.....	843
Bock, Oscar L., Council Bluffs, Iowa.....	873	Gillies Coffee Co., New York, N. Y.....	884	Martz & Son, A. E., Arcadia, Ind.....	858
Bourne Mfg. Co., Melrose, Mass.....	894	Globe Elevator Co., Buffalo, N. Y.....	882	Mazelin, Joseph, Berne, Ind.....	895
Bradley Bros., Lee, Mass.....	902	Glory Anna Poultry Yds., Louisville, Ky.....	894	Meadow Lark Farm, Elgin, Ill.....	877
Brogden, Thos., Rush Lake, Wis.....	874	Goddard & Sons, W. H., Muncie, Ind.....	877	Meadow Lawn Poultry Yds., Michigan.....	864
Brown Fence & Wire Co., Cleveland, O.....	871	Gordon, Jessie F., Spring Valley, Minn.....	880	Merrell, Arthur, Solon Mills, Ill.....	866
Brown, John L., Anderson, Ind.....	885	Grant, John, Richmond, Ill.....	888	Metzger Mfg. Co., Quincy, Ill.....	893
Bruerton, M. M., Wakefield, Mass.....	889	Grove Hill Poul. Yards, Waltham, Mass.....	867	Minch, Philip J., Cleveland, Ohio.....	882
Buckeye Incubator Co., Springfield, Ohio.....	870	Halbach, H. W., Watford, Wis.....	861	Mirimichi Poul. Farms, Foxboro, Mass.....	885
Buckeye Poultry Yards, Eaton, Ohio.....	864	Hales & Edwards Co., Chicago, Ins. front cov.....	888	Mittendorf, O. F., Lincoln, Ill.....	877
Buell, Mrs. L. R., Lake Geneva, Wis.....	882	Handyside & Co., J. R., Litchfield, Ohio.....	888	Model Incubator Co., Buffalo, N. Y.....	895
Burdin, S. K., Toronto, Ont., Can.....	891	Harbin, Edmond J., Riverside, Ill.....	871	Monmouth Farms, Freeau, N. J.....	901
Cadwallader, T., Salem, Ohio.....	864	Harnly, Mrs. J. H., Zion City, Ill.....	845	Moore, R. H., Nellie, Ohio.....	866
Cairngorm Farm, Nottingham, Ohio.....	866	Harris Bros. Co., Chicago, Ill.....	889	Mooreland Poultry Farms, Mentor, Ohio.....	888
Candee Inc. & Brooder Co., Eastw., N. Y.....	865	Hartzman, H. S., Moline, Ill.....	873	Morrisite Mfg. Co., Bloomfield, N. J.....	896
Carbola Chemical Co., New York, N. Y.....	891	Hauk, Jos., Waukegan, Ill.....	888	Morris Poultry Farm, Lebanon, Ohio.....	877
Carbolineum Wood Preserving Co., Wis.....	886	Hayward, W. F., Westboro, Mass.....	866	Morse's Wh. Legh. Farm, Belding, Mich.....	888
Carpenter, W. W., East Providence, R. I.....	880	Haywood Tire & Equip. Co., Indianapolis.....	882	Mountville Farm, Mountville, Va.....	878
Carr Bros., Vineland, N. J.....	879	Heasley, Dr. L. E., Holland, Mich.....	871	Muller & Co., Franklin R., Waukegan, Ill.....	875
Carter's Poultry Farm, Jonesdale, Wis.....	882	Henderson, W. W., Bridgeton, Mo.....	883	Muskvadosa Stock Farm, Pembine, Wis.....	845
Carver, A. A., Seville, Ohio.....	859	Hering, Frank E., South Bend, Ind.....	844	Myers, C. Guy, Siddonsburg, Pa.....	874
Chi. House Wrecking Co., Chicago.....	874-901	Hess & Clark, Ashland, Ohio.....	864	Myers, C. N., Hanover, Pa.....	859
Chicago & Alton R. R., Chicago, Ill.....	896	Hewes, Theo., Indianapolis, Ind.....	872	Myers, Frank, Freeport, Ill.....	876
Chiles & Co., Mt. Sterling, Ky.....	840	H. I. Company, Salem, Va.....	877	National Crate Co., Brooklyn, N. Y.....	885
Clark Co., Newton, Mass.....	845	H. O. Company, Buffalo, N. Y.....	879	National Poul. Band Co., Newport, Ky.....	893
Cleveland Hatchery, Cleveland, Ohio.....	845	Loggson Co., E. F., Boston, Mass.....	879	Natural Hen Inc. Co., Los Angeles, Cal.....	893
Coburn's Red Sus. Farms, St. Clair, Mich.....	839	Holterman, W. D., Port Wayne, Ind.....	872	Nelson, Walter P., Bayonne, N. J.....	882
Cole, Frank C., Van Wert, Ohio.....	894	Homaji Farm, Eveleth, Minn.....	879	Neusitz Co., W. A., St. Louis, Mo.....	876
Collins, W. H., New York, N. Y.....	896	Homestead Camp. Farm, Wayland, Mass.....	860	Newell & Gordinier, Troy, N. Y.....	878
Conkey Co., G. E., Cleveland, Ohio.....	876	Hooker, Henrietta E., So. Hadley, Mass.....	840	Newtown Giant Inc. Corp., Virginia.....	878
Conrad, E. K., Hackensack, N. J.....	885	Houston & Hofius, So. Charleston, O.....	880		
Cook, L., Oakville, Iowa.....	874	Howison, Chas., Sandwich, Ill.....	880		
Cooke, Geo., Racine, Wis.....	888				
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 Riley, H. J., Bryan, Ohio. 866
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Sanborn, Dr. N. W., Holden, Mass. 840
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 Schabell, John, Chicago, Ill. 896
 Schultz, W. F., Cuyahoga Falls, Ohio. 893
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In S. C. White LEGHORNS



1st Cock, Coliseum, 1915

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Just Consider That in S. C. White Leghorns at the last Coliseum Show

I won first and third in cocks; I won first young pen.
I won first and fourth in cockerels; I won second and third old pens.
I won the Coliseum silver cup for best 5 cockerels.
I won the Coliseum silver cup for best display.

SILVER CAMPINES

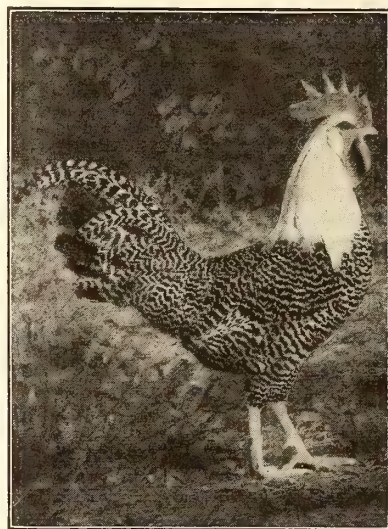
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I won two of the five awards in cockerels.
I won three of the five awards in hens.
I won three of the five awards in pullets.
I won three of the five awards in old pens.
I won three of the five awards in young pens.
I won the challenge cup of the Silver Campine Club of America.
I won the Coliseum cup for best display.
I had 48 Campines entered; 38 were placed.



1st Cockerel, Coliseum, 1914

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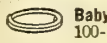
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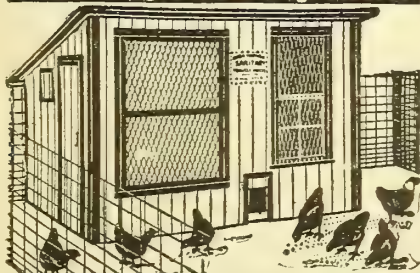


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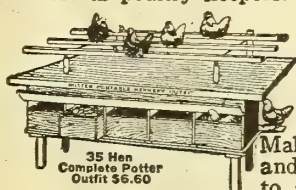
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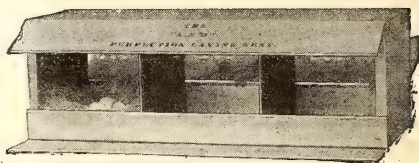
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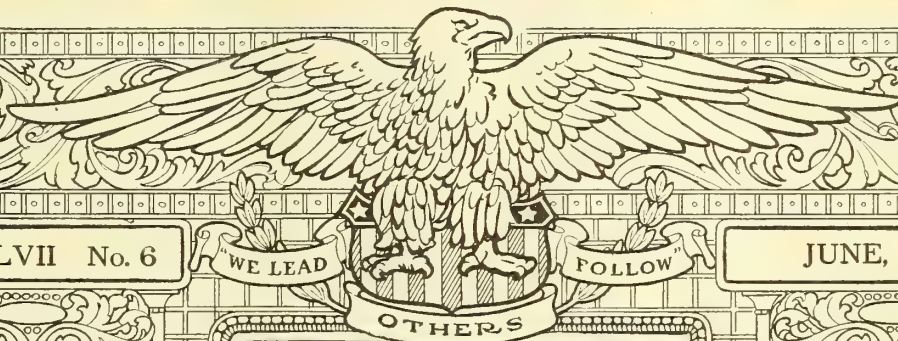
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LITTLE SILVER, N. J.

AMERICAN POULTRY JOURNAL



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JUNE, 1916



J. H. DREVENSTEDT—PIONEER POULTRYMAN

J. H. DREVENSTEDT, born March 10, 1857. New York City; became interested in poultry, dogs and horticulture at an early age and took up breeding thoroughbred fowl in 1882, Light Brahmas, Games, Houdans and Rouen ducks being the first varieties to command his attention. Took up breeding Silver Wyandottes in 1884; other breeds and varieties bred by him were Light Brahmas, Houdans, Andalusians, Games, Game Bantams, La Fleche, White Wyandottes, Anconas, Leghorns, Black Wyandottes, Campines, Dorkings, Cornish; Rouen, Cayuga and Muscovy ducks, besides testing old and new varieties.

Joined American Poultry Association in 1889 at Buffalo, N. Y. Edited 1898 American Standard of Perfection and was member of all Revision Committees until he resigned from same in 1914. Was editor

Poultry Bulletin, N. Y., in 1880, and until 1893 contributing editor of *Farm Journal*, Philadelphia, after which he established the *American Fancier*, a weekly journal, at Johnstown, N. Y., which several years ago was merged with *American Stock Keeper* of Boston, of which paper he is now poultry editor.

Began judging cattle and poultry in 1885 and officiated at such leading shows as Madison Square Garden since 1891, at Boston Fair 1898, at Hagerstown Fair 1890, with nearly as long service at the Canadian Industrial Exhibition, besides judging the leading and smaller shows in Canadian Northwest, made two Pacific Coast trips, judging in California, Oregon, Washington, Montana and Idaho, also officiated as judge at Worlds Fair, Chicago, and Pan-American, Buffalo, and judged many shows in the South.

Sex Control in Poultry Breeding

CHAPTER III—Physiological Causes. *By Herb E. Sharp*

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THE MOST WONDERFUL work of nature is the system by which the individual is reproduced, the lowly bacillus simply enlarges, grows and develops, separates into two parts, each part begins at once to enlarge, swell, or grow—as you will—and repeats the performance. The various stages of growth and development require longer and longer time as the forms of life rise in the scale of Nature. The fowl produces an egg, the germinal cell in that egg divides and develops, during incubation, into a chick; which

breaks it shell and develops or grows into another fowl, mayhap to repeat the performance. The cow and other animals of the higher orders follow a similar tho more complicated process.

The higher animals possess a group of organs that are very highly specialized and worthy of our attention; there are two ovaries, two Fallopian tubes and the uterus. With the fowl there is normally but one ovary and one oviduct which serves the purpose of completing and excluding the egg, while the young chick develops within the egg external to the maternal parent.

The ovary produces an egg cell or ovum, which, in time, ripens or develops and passes thru the tube to the uterus; during this progress from the ovary, if male sperm cells are present, the egg is rendered fertile and under favorable conditions it develops and grows, for a time, until finally there is born a new individual, ready to take up a life of its own. Whether the embryonic development or growth takes place within or external to the mother, the stages of development and final production of a new individual are similar in essentials.

After the egg leaves the ovary until the time when it is fertilized by the male cell, it receives nothing whatever; and, after fertilization, all it receives is what may be necessary for its growth and development. Its nourishment is received from the blood of the mother, there is no direct connection between the blood system of the embryo and the blood system of the mother, but the two systems lie close together. In case of the embryo chick, which is developed within the egg external to the mother, the nourishment is all provided within the egg itself.

For these reasons all the inherent characters, with which the new-born individual is endowed after birth, must have been present within the single cell after the time of fertilization, so that there must have been present at that time some influence which caused the development of certain traits and characters, those which appear later in life, thus that which decides which sex the embryo is to be must have been present at the time of fertilization.

If we ignore the influence which the male sperm cell may impart, we see that whatever sex determinant there is must be present in the ovary, and as these organs are a direct result of heredity we can readily see that their work must also be to some extent in harmony with the work of their antecedents. Considering now the thousands of male sperm cells that must be present at the time of fertilization,—and but one of them is required for fulfilment of its function—it will be highly improbable that, if these male cells carried the sex determinants, these could be evenly divided between males and females; the sperm cells of one male would very probably carry far more male sex determinants than those of another male and the progeny of such a male would, in a long period of time, probably average pretty nearly the same as the sex determinants of his sperm cells.

Inbreeding is well known to strengthen, or increase traits and characters, so if we possess such a male, and follow close breeding, we would probably increase the proportion of male sex determinants in the sperm cells, so that after a time we should have trouble in securing females for breeding pur-

poses. The progeny of a male that carried say nine to one would probably average about nine males to one female, and he would hold that average regardless of what kind of female he might be mated with.

The sons of such a male would be certain to inherit the same trait to a great degree, and the progeny of those sons would also be largely males, and we would soon find the family on the very verge of extinction from the lack of females. Such a family has not been found in a long and careful search of the records of pedigreed registered cattle, in our three leading breeds of dairy animals. From the facts we have presented in this and preceding chapters, we believe we are safe in the conclusion that the sire does not influence, in any way, the sex of his own progeny, for never yet has a sire failed to get some female progeny from some of the females in the flock or herd if he were given any considerable number of females. We have cited, in previous chapter, how the same cock produced all females with one hen and all males with another.

It seems to be the duty of the male sperm cell to fertilize the egg cell produced by the ovary, the egg cell is many times larger than the sperm cell is and when fertilized it seems to go right on with its business of growing and developing. It is the principal business of the sire to transmit the characters of his forebears to his progeny, and when we ask him to carry the sex determinants we are asking for something a trifle out of his line. He may be, and often is, a domineering sort,—fully realizing that he is one-half the earth and so demanding the best of everything for himself—but the fact is he lays no eggs, he brings forth no living young, he never gives a gallon of milk or makes a pound of butter, and he cannot control the sex of his own offspring. A good sire is a good transmitter, and if he is good at that and has the right kind of ancestry, that is all we need ask of him. Nature did not plan him for the creative part of the work of reproduction.

Consider that the female egg cell is the one that carries the sex determinant, and that they are secured in the ovaries, sometimes being pretty largely of one sex, and we have this condition, the majority of young from such animal or bird will be the predominating sex, thus if the sex determinants are mostly females then the progeny will be mostly females.

The normal cow has an expectancy of life of about fifteen years, and, if not paired, will produce an egg cell about every 21 days or about 255 times during her life, now if her egg cells carry nine female sex determinants for every one male sex determinant, that would make it possible for her to produce any one of 230 females and 25 males, so if the males should all come first she would not live long enough to produce a single female calf, but in considering any reasonably large number of cows we would probably find that their calves had averaged pretty close to the exact point of division of the sex determinants of the egg cells.

Applying the same principle to a hen we find that she may produce at any time, any one of a thousand or more eggs, and eggs in this case means chicks, and while it is possible for any one individual to greatly mislead the observer, yet in practice we will find that the progeny that are readily observable will usually give us a very accurate idea of the actual proportions of the different sexes present in the egg cells of the individual.

With closely pedigreed live stock we can readily divide all females into three classes, bearing in mind the possible chances for the production of a "sport" at any time. Those with close inbreeding, that will assure us of sufficient power to transmit the trait, and a well defined proportion of females, this should include all those groups of close relatives that show 90% or higher of female progeny. Next we have the group with the inbreeding, but with the tendency to produce less than 10% females, or 90% males. And then we have left those great groups without the inbreeding that would give them stamina, or having that also show an erratic perform-



The above photos of a Barred Plymouth Rock male and a White Plymouth Rock female are representative of the quality of stock found on the C. C. Shoemaker Poultry Farm, Box 605, Freeport, Ill.

ance, between the two points from 90% females to 90% males.

Now we find another condition that sometimes appears, where one line of blood has been intensely concentrated for a time, then crossed and hopelessly mixed with a number of other lines, so that at first appearance there is no concentration, but a more careful examination of a further extended pedigree will reveal the concentration, and as this line was far stronger than any of the others it still, tho greatly reduced, is able to dominate the character of the individual, and these cases are by no means rare.

An example of this kind served to throw light on the reason so many grade cows had shown great persistency, and an almost unbelievable proportion of female calves, for we had been convinced, that without close breeding there would be slight chance for sex tendencies to be transmitted, yet we found a considerable number of cases where a definite trait amounting to about seven females to every male had been repeatedly shown by a mother and daughter.

The authentic case was a Jersey bull, widely famed for the fact that he stood so close to the Flying Fox family, his sire being a pure Fox, the examination of his seven generation pedigree revealed that he had Flying Fox blood in exactly two-eighths of the document, but on the side of his dam he traced just exactly four-eighths to old Stoke Pogis, while the other two-eighths represented what was called two good out-crosses for the Fox blood.

The owner of that bull, with the pedigree in his hands, wondered why the bull himself, and his calves as well, all looked like the Stoke Pogis family and showed none of the Fox characters. It was a case of four to two and the Fox blood had not been sufficiently concentrated to be stronger than the Stoke Pogis, in any such quantity.

Aside from the fact that all of the ancestors of this bull were Jerseys, he was so completely mixed as to convey the impression that there was no concentration behind him, as the names of his immediate relatives did not betray the strong Stoke Pogis blood behind him, and when the pedigree was extended and this was brought to the surface it revealed the secret.

He was, for our purposes, apparently a cross-bred bull, but when we found his ancestry, then we began to look for

the ancestry of some of the scrub cows we had been considering, and found in every case the same or similar conditions, where there were strong evidences of a preponderance of females having been inherited from parent to progeny, we immediately found that behind it was a strain of strongly concentrated pure blood that was able to defy, as it were, the widely scattered strength, of the other blood lines that had entered into the conglomeration.

Given careful pedigrees and records with which to work, and obviously these records must be complete to be of value, then we can divide all females into our three classes, those that will produce mostly females, those that will produce mostly males, and those that will produce about half of each sex, or if they should run up a high score for either sex, would probably not sustain it in their progeny.

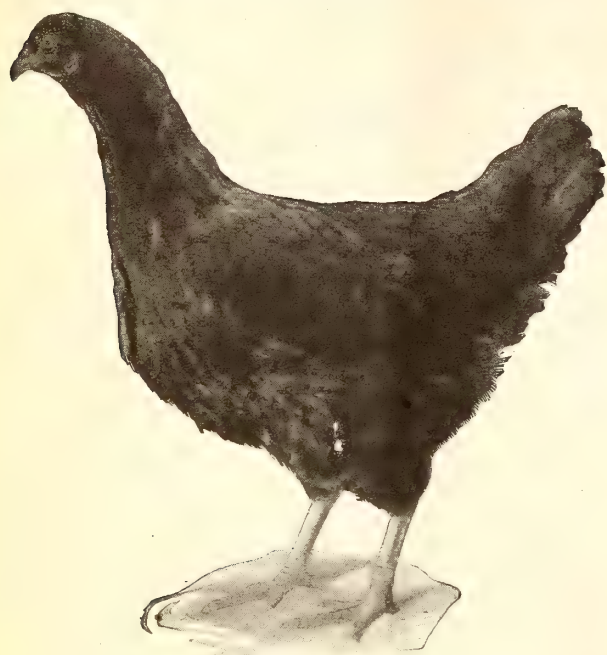
A male whose dam produced 90% females, and whose sire's dam did approximately as well, these two dams being full sisters, or otherwise closely related, and showing several closely related females with quite similar records is certainly a sire that one can depend on to transmit the trait, for his business is solely to transmit the traits of his ancestors.

Certainly a sire with such a group of ancestors will be hard to find in any line or breed of stock, but such individuals can be and will be produced, in the course of time, and a little attention paid to the subject will assist mightily in advancing the time.

Many cattle breeders have noticed that the new-born calf shows in the shape of the head some indications of its sex, and that male calves are usually larger in size than females, and are usually carried from several days to a week or more longer before birth than are females, these differences must be due to some prenatal influence, or they would not be apparent at birth, they cannot be due to the quality or quantity of feed entirely, as two cows on the same feed will produce calves of opposite sexes, each one with the characters that usually go with that sex. They cannot be due to the sire, as two cows bred to the same sire have gone thru life, one of them producing practically all males, while the other produced practically all females: then the only other pre-natal influence that can affect the sex, and the characters that are shown with it, must be present in some form in the ovaries of the

female, and are given to the egg cell before it leaves the ovary.

A certain Guernsey cow came under my observation, that had been paired with a Holstein bull, and produced a grade



BUCKEYE HEN.

Champion Deem's Lady. Owned by Buckeye Poultry Yards, Eaton, O.

calf that was nearly black and white, when bred again to a registered Guernsey bull her next calf showed much of the Holstein Black. I saw this calf, and positively know that it's sire was the Guernsey.

Prof. Geo. Coote, who was for several years under the great Chas. Darwin, related some similar result produced by that great naturalist in experimenting with Collie dogs, and a hen in our own yards, with a natural slate colored leg, was paired with a White Leghorn male, and her chicks afterward showed much yellow in the legs and skin.

From these things and watching the course of the phenomena for a considerable time I formed the opinion, which may not be correct, but seems to have been fairly well supported, that the color pigment, from the sperm cells of the male has stained the sensitive walls of the uterus, and the stain is thence transferred to the subsequent progeny. If this theory is correct there will be small danger of corrupting the sex of subsequent generations by the accidental mating in of a foreign male, while this would undoubtedly corrupt the sex producing tendency of result of that mating it should not exert any influence over the tendencies of the future offspring of the same female, provided she be mated again to a male of her own family.

Color pigment might easily stain whatever it should come in contact with, but it could not come in contact with the ovaries, and as the ovaries alone influence the sex of the progeny, the sex tendency could not well become corrupted from a foreign mating, hence so long as the female is mated to a male of her own family, we are reasonably sure to transmit the tendency even tho she may have been previously mated out of line. This at least would seem to be the logical expectation, tho I am not at all certain the color pigment stains are produced in that way, and if they are produced in some other manner, then it might be possible to transfer as well the stain of the male from a family producing progeny of the opposite sex.

The cautious breeder, of course, will desire to stay away from all foreign stains, for the sake of colors if for no other reasons, and if at all interested in the control of the sexes he will as certainly avoid the touch of a foreign sex tendency as he would avoid an epidemic or plague.

If the ovaries of a hen produce say 30 eggs and give ten of them the short round shape, and incidentally the female sex for the chick therein, while ten of them are long and

rather well pointed, and also contain that which causes them to produce male chicks, and the other ten are so poorly shaped that we cannot accurately place them as to their shapes, and after incubation we find that these have produced about as many male as female chicks, may we not expect that her daughter's ovaries will be somewhat like hers, and hence produce progeny in about the same proportions?

If we find that of 30 eggs from one hen 28 are very even in their short round shape, while the other two are unusually long and well pointed, and on incubation the chicks are found to be about all females, then if we go further and mark the long eggs, and examine the chicks to discover that these are both males, can we not reasonably expect the ovary of the daughter of such a hen to give a performance quite similar?

When we remember that the ovaries are the most highly specialized organs in the body, and are the most important to the individual and the race, for without them and their functions the individual and the race could not be reproduced, then we appreciate to some extent the fact that these organs must be very largely governed by the laws of heredity, and in developing a new individual they must follow very closely after the lines of development, thru which that form has passed in the scale of evolution.

The ovaries then of a female whose ancestors on both sides have regularly produced more females than males may well be expected to continue in the way their predecessors have gone. And if the ancestors on one side have been doing one thing while the ancestors on the other side have been doing another, we may well expect that this individual will do both, or neither, and so long as a female cannot produce 90% males thru her life and also produce 90% females thru her life, she is reasonably sure to do neither, and in the case of the mule she does nothing at all, the difference between the characters of her dam and her sire's dam were too great.

If these things be true in fowls, they must be true in cattle, swine, horses and dogs, and if true in any one, then in all the others.

The individual we seek may be rare, but the more rarity the greater the value, so the search cannot be in vain, and the cost cannot be too great, so long as the value will be greater than any cost.



White Plymouth Rocks formed a very strong class at the Palace Show, December, 1915. The bird above won first in pen for Mr. Lewes Doerhoefer, of Anchorage, Ky.

The White Orpington—A Leading Variety

It Has Enjoyed a Phenomenal Growth, and, Like the Acorn, Has Grown to Be a Mighty Oak in the Forest of Poultrydom. First Prize Article, The Aldrich Poultry Farm's Orpington Contest. *By John A. Carruthers, Colorado Springs, Colorado*



LESS THAN FOURTEEN years ago at the great Chicago poultry show, there appeared for the first time in America a pen of ten white fowls bearing the legend "White Orpingtons, Imported from Orpington, England." At the last Chicago show, this variety occupied a class of about one hundred and seventy-five. You may go into any show in this country today, and you will find the White Orpington among the most popular and most numerous of all the poultry classes. It has enjoyed a phenomenal growth, and,

like the acorn, has grown to be a mighty oak in the forest of poultrydom.

The White Orpington is of English origin, and, if the statements of some of the earlier breeders are to be taken as true, it was produced by crossing White Leghorn males to Black Hamburg pullets and mating the resulting pullets that were white to White Dorking males. It will be seen at a glance that the progenitors of this variety were of very high utility standing in their respective fields, the Leghorn and Hamburg in the production of eggs and the Dorking in the production of meat.

The early Orpington was, of course, not the bird of near perfection which we see today. There was blue in the leg to be dealt with, the white in the ear lobe, the misshapen comb and a color that was often far from that of the "driven snow." But owing to its innate worth—its irrepressible qualities—it found many friends on this side of the water. It was soon admitted to the American Standard of Perfection, and, as time went on, the American idea was crystallized, and a bird was fashioned that would be more beautiful to look upon and yet carry more flesh and lay more eggs. The blue of the Hamburg was eliminated from the leg, the white from the Leghorn ear lobe was dispensed with, and stubs on the shanks, caused by a further cross with the White Cochins to get type and size, was bred out. Color was not forgotten, and now the average breeder may advertise "Snow Ball" White Orpingtons without fear of federal interference. Today the Orpington is as near perfection as any breed that has been exhibited for a quarter of a century or more.

In the show room it stands without a peer. Set upon a pair of short, stout legs placed well apart, with a deep, nicely rounded breast, a broad, long back curving gradually to a well spread tail, bright red eyes, ear lobes and neat, five-point comb contrasting against a background of snow white plumage; no more striking bird can be imagined. The great size, the sturdy frame, the bright fierce eye and the alert poise, typifies vigor and strength, and who can pass it without stopping to pay homage to nature's best creation, the White Orpington.

It attracts at once the eye of the novice as well as the fancier. The novice has no time nor room for double mating—he usually is limited to a small space and he wants results—he finds it difficult enough to breed out the perfection of type, eye and comb without studying the intricate questions of barring and lacing of feathers. Here he has only the one mating to contend with, and only the one ideal of color—pure white—to work for. This last object is attained by careful culling, selecting and breeding only from the whitest birds and not by the method used to perfect parti-colored fowl.

For the small home fancier, there can hardly be imagined a more attractive bird. By nature docile, it readily adapts itself to its surroundings. It does well in confinement and may be kept in a low enclosure, yet when allowed free range will forage as far and as actively as the lighter breeds. The small breeder often finds it difficult and sometimes impossible to operate an incubator and brooder; the Orpington man needs

none, since as a setter the Orpington is unexcelled, and is faithful and careful as a mother. The present day White Orpington, however, will seldom try to set more than once a year, and pullets frequently go thru their first laying year without such a desire.

The large fancier finds plenty of competition, and he finds a ready market for his best birds, at a figure far above that of any other fowl. The record price paid for fowls both in singles and pens is held by this variety and it is nothing out of the ordinary to see single birds selling today for \$200 and \$300 each, and up. The fancier who can produce the winners at the shows, large and small, can sell, at a good price, all the eggs he is able to produce. There is a constant and ever increasing demand for the really good White Orpington.

It does not stand on its popularity as an exhibition fowl alone. It is the largest of the clear-shanked birds today.



Chicks often weigh two pounds and better at eight weeks, are good roasters of eight pounds at six months and attain a weight often of from twelve to fourteen pounds at full maturity, when their flesh is equal to that of the finest turkey. Their white, dry skin dresses far more attractively than the yellow oily skin of other fowls, and I have never heard a criticism offered by any one after giving them a fair trial.

As an egg producer the Orpington is on a par with the very best so-called egg breeds—there is certainly no variety that will produce eggs worth more money during the whole year. It is, primarily, a winter layer. Being blessed with a body of considerable flesh, and a covering of thick feathers, it can withstand the rigor of the most severe winter. Other breeds are trying to keep warm at this time, eggs are scarce and consequently higher in price, and the White Orpington is left to supply the demand for fresh eggs.

It is no uncommon thing to find two hundred egg White Orpington hens—no uncommon thing to find flocks of thirty and forty averaging nearly two hundred eggs per hen for the year, and here and there will be found the exceptional bird, which goes better than two hundred and fifty eggs. In a recent laying contest at Mountain Grove, Missouri, a White Orpington pullet laid 232 eggs in twelve months; another laid 200 eggs in ten months, led all birds in the contest to date, and died. The Australian Laying Contest, where the highest records of all breeds have been made, have produced a pen average of 252 eggs per hen in a period of twelve months.

The Single Comb White Orpington has more true fanciers breeding it today, more men who have a true ideal in view and who have the good of the variety at heart, than any other variety. These breeders are looking not only to its perfection as an exhibition fowl, but to the greater production of eggs and to good flesh development.

This is why the White Orpington occupies the center of the stage in the poultry drama of today, why it has grown from obscurity to popularity in the short space of thirteen years—the growth has been steady, healthy and sure,—and every White Orpington breeder may look forward with confidence to another decade, and feel sure that his favorite will still be playing the leading role in poultrydom.

The Reason I Raise White Orpingtons

They Are Clean and Attractive, Lay as if it Were Their Sole Ambition. They Are Without a Rival as a Table Fowl, Unexcelled as Mothers and Grow Rapidly to Maturity.—Second Prize Article in The Aldrich Poultry Farm's Orpington Contest.

By JAMES EMMET ROYCE, Spokane, Wash.

THE REASON I RAISE White Orpingtons is that my neighbors do not. The reason I know the White Orpington is the best bird for my purpose is that those neighbors breed other varieties of fowl.

If I had not that ever-ready basis of comparison I might not be half so well satisfied with my own little snowy flock. As it is, I need only to lean over the fence, in almost any direction, to know I would not trade with any of them.

Let me put down plainly just what the situation is:

I am not a poultry "fancier." I am not a breeder of blooded stock for the purpose of supplying others. I haven't a blue ribbon to my name. I do not own a poultry ranch of many acres, with thousands of birds ranging at will over grassy meadow and thru blossoming orchard. My total number of fowls has never been over the hundred mark.

I am just one of the ordinary fellows, who makes a living at something else and keeps chickens for the love of it—just one of the thousands who make up the great bulk of the poultry enthusiasts of our country.

I keep chickens as some men play golf—because it takes me out in the open air during the little leisure time I have; because a man to get the most out of life *must do something*. But my poultry flock is not a fad. It has to pay its way. It has to furnish strong proof of its value every day, and month and year.

When I decided I had wasted time enough on a calico-colored crowd of scrub fowls and set out to take the proposition seriously, I had some very positive ideas about the kind of a bird I wanted for steady company.

First, I wanted white fowls, because they *look* clean only if they *keep* clean, and cleanliness is as much a hobby with me in the chicken coop as in the dwelling house. A red chicken, or a gray, or a black one, can be as filthy as it pleases—and get away with it. A white one carries its character on the outside. Besides, I like the snowy looks of white plumaged birds scattered over the runway. Little or big there is nothing prettier.

Second, I wanted a bird that would lay eggs—sizable eggs

and plenty of them. Some of the egg breeds have done this in the laying season, but all the coddling in the world will not make them really enthusiastic about it when the snow is on the ground. My egg cards show a one hundred and fifty egg average the year round.

Third, there is nothing I like to eat more than I do chicken; and when I sit down to a meal of it I want *chicken*—not sparrow. I sought a bird which would dress for the table like a turkey, which would be as succulent when stewed as a two-year-old as it would be broiled in its babyhood. Come over to the house for dinner some Sunday, and see if Orpington does not fill the bill.

Fourth, I wanted a bird which would hatch its own young. I do not like incubators. I want the chickens brought out of the shell in the good old way. Now watch my flock. They go broody in January, February, March—without waiting until the time for early chicks to be over before taking the notion. If I have eggs to be hatched, they stick to the nest like glue, bringing out one brood or two, or even three in succession if asked. If I do not need their services they are easily broken up. I may say, however, that I have to break up very few of them. My neighbors are always calling for the services of any I can spare.

What more could the home poultryman ask? White Orpingtons are clean and pretty. They lay as if it were their sole ambition. They are without a rival as a table fowl. They are unexcelled mothers and their young grow rapidly to maturity. And I am a hard taskmaster I guess. I hold them to account for every penny spent upon them—and demand adequate return for it.

My books show a profit of better than a dollar a year per bird. If they'll do that in a flock of a hundred, there is no good reason why a man with a thousand cannot succeed with them as well.

Four years ago not enough poultry and eggs were produced in Pontotoc county, Oklahoma, to supply the local demand, many farmers failing to raise enough poultry to supply their own tables. Today there are several poultry and egg shipping houses in Ada and their monthly shipments amount to more than \$4,000, or over \$50,000 a year. For three months last fall \$3,000 worth of turkeys alone were shipped monthly from that city.



FIRST PRIZE SILVER CAMPINE HEN
NEW YORK PALACE SHOW DEC 1915 BRED & OWNED BY
HOMESTEAD CAMPINE FARM WAYLAND, MASS.

Net Cost of Producing a Dozen Eggs

First Prize Article. Showing Cost of Producing Eggs with a Selected Flock Compared with Average Flock "Just As They Grew Up." By A. C. Drury, Piedmont, N. H.



HAVE BEEN INTERESTED in poultry for over fifty years and have always kept a general account of expenses and sales. Like most "hen cranks" I have tried many breeds, from Bantams to Cochins. In 1913 I decided to try, for the first time, Rhode Island Reds. I had at the time, White Plymouth Rocks and White Leghorns.

As I wished to find one breed that would meet my conditions—climate, market, etc.—I decided to establish a cost system to satisfy myself in regard to several matters. First, profitability of the breed,—as that is my living. Second, hardiness and vigor, for this is a cold country. Third, evenness of production. I had no idea at that time that anyone would ever see the results of my investigations, and I do not now propose to make public the conclusions concerning these breeds as far as I have gone.

Early in 1914 I decided to make a two-year test of the same three breeds and to note several other matters that had been brought to my attention, one in particular in regard to the cost of eggs from *selected pullets* as compared with a *flock just as they grew up*. Unfortunately sickness prevented me from keeping complete records for the full time, so I have only seventeen months' records of the several matters that interested me deeply.

When I saw the announcement of the contest in the MARCH AMERICAN POULTRY JOURNAL, the thought came to me that I could give the cost records without including the other matters. If I do not win a prize, I feel that they may prove of interest even if only to compare with records of other places and under different conditions. I am sending the record of one pen of unselected pullets—a flock just as they grew up—for seventeen months. The one year record is for three pens of *selected pullets*. My cost for the whole plant, 600 to 800 fowls, per dozen eggs is 26.19 cents net.

CONDITIONS under which the records were obtained:

Climate.—Very cold winters; March 12, 1916, 7 A. M., 22 degrees below zero and at 2 P. M., 38 degrees above zero—very trying to fowls as well as poultry.

Houses and Care.—Long houses with pens 12x18 ft. and some 12x20 ft. Same general care given to test flocks as to other fowls, excepting in matter of records, weighing feeds, etc.

Feeding.—Same as the rest of the 600 head. A dry mash constantly before them, also grit, shells, charcoal. Fresh water three times a day. Mixed grains, wheat, barley and cracked corn. Fed sometimes as a mixture and sometimes separately. The dry mash varied according to condition of flock, the weather, and the production.

Price of Feeds.—Variable, but quotations at present writing are:

Feed.	Price per 100 lbs.
Corn	\$1.70
Cornmeal	1.70
Middlings	1.50
Wheat bran	1.45
Gluten	1.70
Linseed meal	2.00
Cottonseed meal	2.00
Wheat	2.30
Barley	2.00
Charcoal	2.00
Ground bone	3.50
Meat scraps	2.75
Fish scraps	2.65
Alfalfa	1.55
Oats, per 2½ bushels.....	1.50
Zenoleum disinfectant, per gallon.....	1.50

Fixed charges include:

Labor at 20 cents per hour, a very careful account shows

actual cost of time spent and cost per pen regardless of number of fowls, whether 30 or 70 birds, to be \$2.30 per month.

Therefore labor	\$2.30 per month
Interest, at 6% on \$100 per pen.....	.50 per month
Taxes, at \$20 on a \$1,000.....	.17 per month
Depreciation of buildings, etc.....	.37 per month

Total, per pen.....\$3.34 per month

Food and Supplies include: All supplies and food purchased and used, the various items vary from month to month. Waste from garden and clippings from lawn used for fowls is *not* included in food cost. Shavings for nests cost two cents per three bushel bag. Supplies do *not* include straw for litter, as a farmer cleans the pens and furnishes straw for same at no expense to me. This fact helps out a little on the labor item, but if I had more land it might be better to buy the straw for cash.

Loss by death is figured at inventory price of 75 cents each.

Salable eggs received means just that, as I never count soft shells, small, or double yolked eggs; in fact, nothing that is not salable is counted. We get only about enough of such unsalable eggs for use in house.

I plan to get the pullets into winter quarters from September 15th to October 1st, according to weather and condition of pullets. I use *no yards* for laying stock; they stay in pens till sold for market. Open-front houses, with cloth curtains for stormy or very cold weather. Pens are kept reasonably clean and are disinfected with one of the coal tar products as often as needed. When the mercury is 30 to 40 degrees below zero I don't use disinfectants.

Number of fowls means the number of birds in pen on the first day of given month.

Selling cost includes:

Cartage to depot on two cases—60 dozen.....	\$.20
Express to Boston and the return of empty cases, and revenue stamps .....	.93
Cartage of empty cases to hennery.....	.10
Packing, fillers, wear and tear, breakage, etc.....	.27

Or estimated average selling cost at 2½ cts. per dozen...\$1.50

This estimate is liberal, as I sell a good many eggs for shipment less distance, and many at the door to local buyers who furnish their own cases and pack eggs at no expense to me.

I wish to say that the average net cost per dozen given in the yearly record for selected pullets is about 6 cents less per dozen than cost shown in the records for the total number of fowls kept. The number of fowls kept varies from year to year and this year I have only about 600. The reason for this difference in cost price is that the number of eggs per hen in the selected pens was about 20 more eggs each than I am able to get from the others. I am fully satisfied that the production cost is governed largely by the number of eggs produced, as well as by reducing labor cost. I have given up trying to reduce cost of production by reducing quality or quantity of feed. I have lessened the cost of watering and feeding by putting water pans and mash hoppers *between pens* so that one pan and one hopper care for two pens. It is a small item of itself, but it counts when you have 1000 or more baby chicks and from 600 to 800 fowls to care for. I find I can care for 600 fowls in my long laying house in less time, and with less effort, than it takes to care for 200 in four colony houses of 50 birds each. I keep finding new points in labor saving and I believe that each poultry keeper must study his own conditions. Save a step here and there, carry two pails of feed or water in place of one.

I don't think I have production cost reduced to the lowest point yet, but I know I have made some gains since I began to keep a detailed account. While it means a lot of care and work, I feel more than repaid by the knowledge gained in regard to matters that interest me. I have not said anything

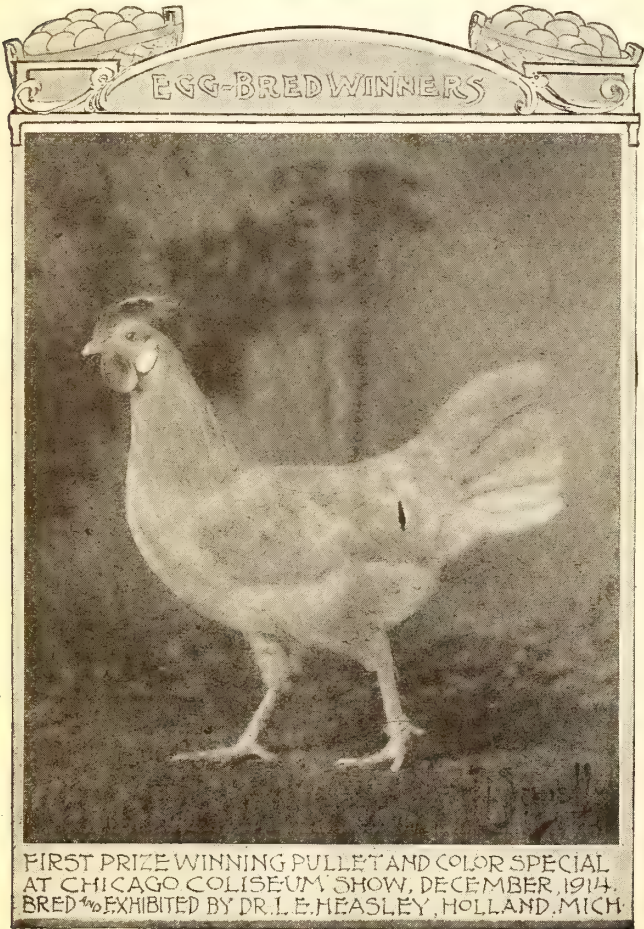
about selling price of eggs, as I do not understand that that has anything to do with cost of production. But will say that it has been more than the average cost in all my experience, but sometimes has been very close. In monthly cost record the selling price has been below production cost of eggs for about four months of the year and above for eight months, so taking the year as a whole the per cent profit has been fairly good. I urge every poultry keeper to keep a carefully itemized cost account.

TABLE OF EGG COST WITH CAREFULLY SELECTED PULLETS.

Pen 3, June 1, 1915, had 52 White Plymouth Rocks.
Pen 4, June 1, 1915, had 57 White Leghorns.
Pen 5, June 1, 1915, had 55 Rhode Island Reds.
Total selected pullets on June 1, 1915, 164.
These pullets were penned September 15, 1914, and are still in pens.

Month 1915	No. fowls 1st of month	No. broodies	Overhead fixed charges	Food and supplies of all kinds	Loss by deaths	Cost of production	Salable eggs produced	Selling cost per dozen	Net cost of eggs per doz.
January	164	4	\$10.02	\$19.77	\$2.25	\$32.04	1474	.025	\$.29
February	161	8	10.02	20.25	.....	30.27	1569	.025	.26
March	161	17	10.02	20.95	.....	30.97	2563	.025	.17
April	159	34	10.02	21.72	1.50	33.24	3167	.025	.15
May	159	38	10.02	20.89	.....	30.91	3696	.025	.12
June	159	45	10.02	19.69	.....	29.71	3579	.025	.12
July	158	24	10.02	19.05	.75	29.82	2581	.025	.16
August	158	6	10.02	18.01	.....	28.03	2415	.025	.16
September	158	9	10.02	15.03	.....	25.05	1797	.025	.19
October	158	3	10.02	16.33	.....	26.35	965	.025	.35
November	158	4	10.02	17.32	.....	27.34	736	.025	.47
December	155	0	10.02	20.07	2.25	32.34	384	.025	1.03
Totals	192		\$120.20	\$229.08	\$6.75	\$356.07	24926		

Average net cost of one dozen eggs from the selected pullets, including selling cost, 20 cents.
Average number of eggs per hen per year, 157.



A June hatched S. C. Buff Leghorn that was a first prize winner the following December.

TABLE OF EGG COST FOR FLOCK "JUST AS THEY GREW."

Penned for winter September 15, 1914.
Cost record for 17 months from October 1, 1914, to March 1, 1916.
White Leghorns hatched last week of June, 1914.

Month 1914	No. in pen	No. broodies	Loss by death	Fixed charges	Food and supplies	Total cost	Eggs laid	Sale cost	Net cost per dozen eggs
October	57	.....	.....	\$3.34	\$6.10	\$ 9.44	0	.....	.....
November	57	.....	.....	3.34	5.70	9.04	0	.....	.....
December 1915	57	.....	.....	3.34	5.95	9.29	207	.025	\$.56
January	54	.....	\$2.25	3.34	5.65	11.24	390	.025	.37
February	54	.....	.....	3.34	6.10	9.44	484	.025	.26
March	54	.....	.....	3.34	6.80	10.14	728	.025	.19
April	53	.....	.75	3.34	7.00	11.09	1056	.025	.15
May	53	.....	.....	3.34	6.60	9.94	1272	.025	.11
June	53	1	.....	3.34	6.45	9.79	1282	.025	.12
July	53	1	.....	3.34	6.20	9.54	1113	.025	.13
August	53	.....	.....	3.34	5.10	8.44	872	.025	.14
September	53	.....	.....	3.34	4.95	8.29	326	.025	.33
October	53	.....	.....	3.34	4.70	8.04	14	.025	6.89
November	53	.....	.....	3.34	4.92	8.26	26	.025	3.82
December 1916	51	.....	1.50	3.34	5.60	10.44	0	.....	.....
January	49	.....	1.50	3.34	6.05	10.89	7	.025	18.70
February	47	.....	1.50	3.34	5.80	10.64	131	.025	1.00
Totals						\$163.95	7908		

Average net cost of eggs per dozen for seventeen months, including selling cost, 27+ cents.
Average number of eggs per hen for seventeen months, 152.
These birds were not selected for quality, but were penned "just as they grew," without culling.

Net Cost of Producing a Dozen Eggs

Second Prize Article. Record 65 S. C. White Leghorns for One Year Shows Average Cost of Approximately 26 Cents per Dozen Eggs.
By A. J. MYERS, Blue Island, Ills.

THE COST OF A DOZEN EGGS is a subject of such vital importance to poultry keepers that it is naturally welcomed by the poultry press and the discussion will bring about a desired result, that of showing thousands of people that they have been selling eggs below production cost. It will do more real good to the poultry industry than has been done by any other means for many years.

In the following accounts, giving actual figures of costs and receipts in my yards, the figures and results are not claimed to be a standard, because no two people will get the same results. The data will, however, I believe, prove of interest to every poultry keeper who is searching for facts and wants worth while results in his poultry work.

The record is for 65 pure bred S. C. White Leghorn pullets, May hatched and always kept in confinement. The pullets were housed in a monitor-top open-front house, allowing three and three-fourths square feet floor space per pullet. The house was kept in sanitary condition and the birds free from lice. Mash, oyster shells, charcoal, beef scrap and grit were kept in hoppers always accessible. Grain was fed in straw litter. Fresh water before the birds at all times.

Grain and supplies, cost per pullet, per year:

Wheat, 27½ lbs. at 1¾c.....	\$.48
Oats, 17 lbs. at 1⅓c.....	.25
Corn, 27½ lbs. at 1⅓c.....	.36
Dry Mash, 36 lbs. at 1½c.....	.54
(Mash is 60% bran, 40% corn meal)	
Beef scraps, 7¼ lbs. at 3¼c.....	.25
Oyster shell, 8 lbs. at 1c.....	.08
Charcoal, 2 lbs. at 4c.....	.08
Grit .....	.06
Straw for litter.....	.13
Salt, pepper, mustard, epsom salts, etc..	.04
Total.....	\$2.27

Investment:

House, per pullet.....	\$1.00
Equipment .....	.50
Cost of pullet.....	1.00
	<u>\$2.50</u>

Interest on investment at 6%.....	\$.15
Labor and care per pullet for year.....	.27
Avg. loss per pullet on flock mortality.....	.05
Depreciation .....	.15
Rent, water, lime, disinfectants, coal oil, sprays, etc. ....	.12

Total fixed charges per pullet..... \$.74

Total costs per pullet per year..... \$3.01

Average number of eggs per pullet per year.....140½

Average net cost of producing one dozen eggs.....26 cents

No charge is made for advertising, cartons, stationery, postage, cartage, express, etc., as all eggs are sold at door. Care has been taken in keeping accounts and figures furnished are accurate. While amount of grain, mash, etc., is above what is said to be the correct amount, the results were satisfactory, as the eggs were above average in weight per dozen and were good food value.

Following is a summary for one year showing month returns, total food cost and food cost per dozen eggs:

RECORD OF 65 S. C. WHITE LEGHORN PULLETS.

**Prices Received for Eggs and Food Cost Per Dozen.*

Month	Per cent laying	Dozens laid	Average price per doz.	Weight per doz. ounces	Food cost only per doz.
October	5	7-4	\$.42	24	\$1.71
November	20	32-4	.45	24½	.41
December	31	50-4	.42	26	.26
January	41	66-7	.40	28	.23
February	46	74-9	.38	27½	.19
March	52	84-6	.32	27½	.16
April	60	97-6	.28	27½	.13
May	71	115-4	.25	27	.10
June	54	91	.28	27	.11
July	45	73-1	.30	26½	.14
August	20	32-1	.32	25	.30
September	12	19-6	.35	24¾	.47

Total eggs laid, 744 doz. 4 eggs.

Total amount received for eggs, \$246.53.

Average price received per dozen eggs, 33.12 cents.



One of the females from the breeding pens of W. W. Carpenter, East Providence, R. I., Barred Rock Specialist.

**Table of Net Cost of Producing One Dozen Eggs.*

Month	Fixed charges	Food and supplies	Total cost	Eggs laid	Net cost per doz.
October	\$ 4.008	\$ 12.54	\$ 16.548	88	\$2.21
November	4.008	13.28	17.288	388	.53
December	4.008	14.76	18.768	604	.37
January	4.008	15.49	19.498	799	.29
February	4.008	14.02	18.028	897	.24
March	4.008	13.65	17.658	1014	.21
April	4.008	12.54	16.548	1170	.17
May	4.008	11.80	15.808	1384	.14
June	4.008	10.33	14.338	1092	.16
July	4.008	10.33	14.338	877	.20
August	4.008	9.59	13.598	385	.42
September	4.008	9.22	13.228	234	.67
Totals	\$48.10	\$147.55	\$195.65	8932	

Annual fixed charges per fowl, 74c; food and supplies, \$2.27; total, \$3.01.

Average production cost of eggs per dozen, 26 cents net.

Overhead or fixed charges in this table contain estimated percentage for mortality or loss by death. Food and supplies allow for straw for litter, see tables of supplies and fixed charges.

(*Author's figures have been arranged in two tables for convenience and for comparison with the first prize article.—Editor.)

Prof. A. G. Lunn, for some time an instructor in the poultry department of the Oregon Agricultural College at Corvallis, Ore., has gone to the Massachusetts Agricultural College as extension instructor of poultry husbandry. He has been succeeded at the Oregon Agricultural College by Prof. A. C. McCulloch, a graduate of and for some time an instructor in the poultry department of the Canadian Agricultural College at Ontario, Canada.

"The State School Poultry Association" is the name of a new organization launched in Oklahoma City, Okla., in October, agricultural teachers from the several normal and preparatory schools of the state attending the meeting. The object of the organization will be the promotion of interest in poultry raising among the rural school pupils thruout the state.

Altho the Canadian hen has made a record as an egg producer to the extent of 123,000,000 dozens of eggs during the last fiscal year, it is a remarkable fact that Canada still has to import more poultry and eggs than she exports.



First prize Silver Campine cockerel, Chicago Coliseum Show, 1913; headed first old pen at Coliseum, 1915. Owned by Frank E. Hering, South Bend, Ind.

"WE LEAD, OTHERS FOLLOW"

EDITORIAL

American Poultry Journal

Entered as Second-Class Matter August 9, 1886, at the Postoffice at Chicago, Ill., under Act of March 3, 1879

65,000 American Poultry Journals for
June, 1916.

State of Illinois, County of Cook, ss.:

"G. M. Atwell, president of the Atwell Printing House, Chicago, being duly sworn, certifies that the American Poultry Journal has contracted for printing and binding 65,000 copies of the June, 1916, issue.

G. M. ATWELL.

Subscribed and sworn to before me this
15th day of May, 1916.

[SEAL] HENRY G. EISERT,
Notary Public.

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AMERICAN POULTRY JOURNAL is the oldest poultry paper in America. It has a national and world-wide reputation. The best writers on poultry matters contribute to its columns. It receives the patronage and endorsement of the foremost representative breeders of standard poultry and manufacturers of poultry appliances in the country.



ALTHO THERE HAS been considerable opposition to the proposed elaborate and expensive separate breed standards to be published by the American Poultry Association, the committee — or rather the chairman and his employees — seem to be pushing the work as rapidly as possible, with the evident purpose of putting up to the next annual meeting the alternative of accepting the manuscript and illustrations as prepared or throwing away a very considerable expenditure of the funds appropriated.

A large sum was appropriated at San Francisco for this work and practically placed at the demand of the chairman, who, so it would seem, is losing no time. In the copy of a letter, apparently written by him to the chief executive of the Association appears the proposition to practically eliminate the other members of the committee and to put the work of "getting together the copy" for these books in charge of "Homer W. Jackson, a man in the employ of Cyphers Incubator Co.," which letter proposes to start the work about April 10th or 17th, and contains the following eloquent paragraph:

"Of course there is no time to lose! We have quite a big job ahead of us and it will be necessary to get together as soon as we can, in order to lay out the work further and then put two or three good men 'at it' in dead earnest. Please favor me with an early reply. Should judge it will require about \$125 to \$130 per week to carry on this work, including four days per week of Mr. Schilling's time, three days per week of Mr. Sewell's time, about four days per week of Mr. Jackson's time, to which must be added the services of a competent stenographer at

about \$12.00 per week. Shall be glad to furnish office room at all points, but the cost of art materials will be charged to the Association at cost. Shall also expect the Association to compensate these men regularly on presentation of bills duly O. K'd by the chairman of the committee, subject to the approval of the usual authorities."

It will be noted that the persons herein proposed to be put on this work and the pay-roll of the Association during the present dull season prior to the convention, are all persons who are regularly in the employ of the chairman and drawing salaries from one or more of his business concerns. That there are other equally competent men—and, in one case at least, men more experienced and capable of taking charge of such book making—in the Association and available for such work should be apparent to anyone.

We understand that a meeting of the Standard committee was held in Buffalo the latter part of April. Evidently it was not possible, or considered necessary, for Mr. Russell to come on from the Pacific Coast. We understand that Arthur C. Smith was present, "on account of preparatory work he has done in connection with the Plymouth Rock breed standard." Messrs. Sewell, Schilling and Jackson were also counted present. Mr. Essex, we believe, was there to report on the Market Standard, and we were informed that Secretary Campbell was present to represent Pres. Richards, who was too ill to attend. Just why Vice-Pres. Peters was eliminated and did not represent the president, as is customary in such cases, we did not learn, and at present writing have received no reply to our inquiry.

Presumably the work is to be pushed as rapidly as possible by the chairman and his regular em-

ployees, altho, in view of the fact that both gentlemen have gathered together much valuable "copy," it is probable that Messrs. Smith and Drevenstedt will be called upon to furnish a certain amount of "copy" and data for two of the books. As the Association would have difficulty to find two more experienced and better equipped men to prepare the books than Arthur C. Smith on Plymouth Rocks and J. H. Drevenstedt on Wyandottes, it seems a pity, if this book making must be done, that these men were not selected to prepare all manuscript for these books and have a place on the "pay-roll." Of this we shall probably learn more later when the reports are all in.

In the face of so much opposition to these proposed elaborate and high cost breed books, it seems unwise for the work to be so rushed and the appropriation used up just at this time. It would apparently have been wiser to have held up the work until the Cleveland convention had an opportunity to consider it; as the vote at San Francisco does not seem to have been representative of the whole Association.

It is never wise to build extensively and expensively on shifting sand. Such foundations are liable to destroy the whole structure. The present "main" Standard has been severely criticised and appears to be highly unsatisfactory to breeders and judges alike. To build a whole series of elaborate and high cost breed books on the shifting sands of such a foundation, and at a time when the publishing business is in a more difficult and costly position than for many years and when book sales are slow and uncertain, looks like a most unwise proceeding. While the "main" Standard will, in all probability, be only an imperfect mirror reflecting the fickle fashion in exhibition fancy, it should be the effort of the committee to first correct and perfect this much criticised "set of copied rules—copied from Nature's winning specimens by this human family of which we are all members and whose knowledge, we must be frank to confess, is still in a fledgling condition"—as Judge Platt states it—before attempting to build on the Standard foundation a series of high cost breed books.

It is practically admitted—and we have not seen the assertion contradicted—that the chief, if not the sole purpose of these new breed books is to provide the Association with additional revenue, because it needs the money. Who gets the money and how are poultry interests benefitted? If it were true that the Association is going into this wholesale publishing business for the better promotion of "every poultry interest" would there be such a rush to prepare expensive books to sell at "fat profits" and books that must soon change with the fashion of the "main" Standard?

If the Association really has, in this movement, the desire to be helpful and useful to its members and to beginners in poultry breeding, would it not endeavor to co-operate with the leading specialty breed organizations for the purpose of publishing practical but inexpensive separate breed standards to be broadcasted free of charge, or at most to be given a wide sale at a price not exceeding actual cost and postage? Very excellent practical and useful breed standards could be prepared and distributed at a cost not to exceed 25 cents each and we believe that such work might be done "for the

good of the cause" without drawing on the treasury of the Association for a summer salary list of close to \$600 a month.

There has been much criticism of the proposed attempt to "standardize" mating and breeding in the forthcoming books and it is asserted that the breeder-novice will find the information in such books to be "confusion worse confounded." Of course it is possible that such information may be used to exploit or otherwise advertise some few successful breeders' methods, but such matter would appear out of place in a "recognized" standard breed book, tho well enough in breed books of another type. Just how practical information of value is to be made helpful and useful to novices on such matters as mating and breeding, without leading the beginner too far afield in these books, will probably prove a vexed question. As a rule each separate mating presents an individual problem for the experienced breeder and he must know what is "back of" his birds as well as what he sees. We have seen a dozen different and some extreme matings of one variety in the yards of a skilled specialist, and each mating was a problem in itself that would require an article of some length to describe. We shall watch the development of this "mating and breeding" feature with some interest and we hope that the Association does not get "another gold brick." On this subject Editor Schwab in *Everybody's* says:

"They evidently now wish to also standardize the mating and breeding question, questions that will always remain questions and over which they have absolutely no control.

"We believe this is a mistake, for the simple reason that the new breeders and the beginners will take for granted, to be official and infallible all that the American Poultry Association publishes. * * *

"The American Poultry Association has its capable members who could readily write articles of 'Advice' on mating and breeding that would be valuable to beginners and of interest to all breeders alike, but to standardize them and sell them as such would be folly of the worst sort.

"The Standard as we have it today, is applied in the show rooms and by thousands of breeders, by each judge and breeder, as they understand it, it has been shown so many times how opinions in judging alone differ. There are miles of space in this difference of opinion between prominent breeders and judges. * * * You can make and adopt a standard for judging, but you never can make a standard for mating and breeding that will give the same results in two states; you can advise and suggest, with reason, but the breeder who does know and those that wish to know, and have the qualities, will succeed by study, trying and experimenting with or without the proposed breed standards."

As we have already said, we believe, viewing the matter chiefly from the interest of pure breeds and the promotion of breeding standardized poultry, that the proper place to make separate breed standards is in the specialty club or breed organization, either with or without the co-operation of the American Poultry Association. Such separate breed standards should be practical, simply worded, as free as possible from conflicting opinions, and should endeavor to describe the specimens as they are found in the breeding yards, and in the show room, and should set forth the desirability of the breed pre-

sented and its practical as well as exhibition characters. The books should be inexpensive and if possible for free distribution, or at most should not exceed a selling price of 25 cents each postpaid.

"Clean Up" in Advertising.

ADVERTISERS and ad writers everywhere will do well to read and heed the recent decision of the United States Supreme Court in defining what constitutes dishonest advertising thru the mails. It affects advertisers everywhere who employ the mails to reach customers, and advertisers are advised that it will be well to modify their statements and to endeavor to eliminate from their advertising matter the "hot air methods" and "catch phrases" now in such common use.

A press dispatch in *Chicago Tribune*, dated Washington, D. C., April 24, says:

"In defining today more clearly than ever before what constitutes dishonest advertising thru the mails, the Supreme Court held in effect that advertisers, even if they give purchasers value received for their money, are guilty of fraud if by exaggerated advertising propaganda they have lead clients to expect more.

"Officials declare the decision will pave the way to scores of prosecutions and make possible the enforcement of a much more stringent Federal supervision of mail advertising."

"Justice McKenna took the position that it was an offense if the article sold did not serve the purpose represented, no matter what the value might be.

"In discussing what constitutes a criminal offense under the statute governing the use of the mails, Justice McKenna said:

"'Mere "puffing" might not be within its meaning (of this, however, no opinion need be expressed), that is the mere exaggeration of the qualities which the article has; but when a proposed seller goes beyond that, assigns to the article qualities which it does not possess, does not simply magnify in opinion the advantages which it has but invents advantages and falsely asserts their existence, he transcends the limits of "puffing" and engages in false representations and pretenses.

"'When the pretenses, or representations, or promises which execute the deception and fraud are false, they become the scheme or artifice which the statute denounces. Especially is this true in the purchase of small tracts for homes."

This important opinion was given in the reversing the decision of the District

Court of Southern Florida, which had quashed an indictment against a real estate concern charged with unlawful use of the mails. While made in decision of a case against a concern selling ten acre farms, it undoubtedly affects all advertisers who use magazine and newspaper advertising and who do business thru the mails.

A liberal interpretation of this opinion might easily include illustrations from retouched photographs when such are not duly labeled as retouched. Referring to this class of poultry pictures, Editor Essex in *Canadian Poultry Journal* says: We have seen Franklane Sewell's work again and again used to misrepresent birds that were as far from the original as were the abodes of the men who mis-appropriated them distant from the abodes of those who owned the originals."

The subject of "faked illustrations is, however, a very difficult one to handle and one has to take the word of the artist, or persons who have seen the specimen, as to whether or not the picture shows the bird as it is or misrepresents it. We can be satisfied that our own artist's pictures when labeled "unretouched" represent the specimen just as the camera faithfully reproduced them, but when we attempted to label a picture "retouched" where, to us, the illustration showed every evidence of artists' changes in the original, we were immediately flooded with protests, stating emphatically that no retouching had been done. Because of this it was found advisable to label only pictures which we know to be unretouched.

According to the "Proceedings" the much commented upon resolutions "censoring and censoring" advertising were introduced to the San Francisco convention of the American Poultry Association "by Grant M. Curtis on request of E. B. Thompson."

While we believe in and would like to see more truth and less "hot air" in all advertising, and particularly the advertisements in the poultry press, the recommendation and adoption of this resolution appeared to us a bit of ill-advised

legislation. It would have been far better to have first a clean-up from within and to have set the American Poultry Association house in order before posing as "lily white" and attempting to "purify the other fellow." Reform and more moderate statements in advertising would be welcome. But in this case the Association itself for several years past and the promoters of these resolutions have been using the very sort of flamboyant advertising which the vote of the Association condemns and seeks by its committee to censor and censure. It would seem to have been up to the American Poultry Association to first set a good example to the poultry world by doing right itself before attempting to reform others. The reform, however, will have to come and it is the high court and not the American Poultry Association that has taken action that will compel reform in advertising. In effect any advertisement is dishonest and any advertiser is guilty of fraud if the ad misleads the investor to hope for or expect more than he receives. That is a pretty sweeping view of the situation. Most of us, under such interpretation of the law, will find that our advertising must be modified and the "hot air" element eliminated. In fact we can well consider the poet Gay's lines:

"In other men we faults can spy,
And blame the mote that dims their eye:
Each little speck and blemish find,
To our own stronger errors blind."

There is a singular irony in the fact that in reply to our comment concerning certain alleged misleading statements in Association advertising and that of certain "prominent personages" in the organization, we were informed that such portions of the ads criticised were merely "harmless statements," yet similar statements in advertising of less important persons were classed as wrongful and misleading. Just why there should be such artificial discrimination "twixt Tweedle-dum and Tweedle-dee" is difficult for anyone not a duly installed "lily white" to comprehend.

For example, it has been stated as very wrong for certain advertisers to use the catch line "Best in the World" or "The World's Best" and doubtless it is true that such catch lines are not lawful and should not be used; yet such is a very common and very American form of exaggeration. The thing that amused and somewhat disgusted us, and which made the San Francisco vote appear ridiculous, was the fact that at the very time the resolution of censoring and censoring advertising was being put thru the convention, both of the promoters of the resolution were using advertising of similar nature and one of them at least had prepared, or caused to be prepared, and used for a long time similar "hot air" advertising for the Association.

On page 26 of the "1916 Mating and Sales List" of the farm of which one of the promoters of the censoring resolutions is the financial head, we find advertised: "Two Pens of Champion Lay-

RED SUSSEX

chickens for real utility. A few eggs now at \$3.00 per setting.

A splendid crop of young birds now growing, including a few Feb. and Mar. chicks. A pair of pullets hatched Feb. 10th weighed 3 1/4 lbs. on April 21st. It is pretty hard to beat these Red Sussex

F. L. PLATT, SWANTON, OHIO

Foxhurst Champion Black Orpingtons

Ask the man who owns a winning Black Orpington what strain he has. Nine out of ten he will answer Foxhurst.

Conceded the best Blacks, because of their unprecedented wins at America's leading shows for the past 10 years.

Engage your Fall and Winter Show Birds now, at Summer prices.

FOXHURST FARM LIME ROCK, CONN.

SINGLE TOMPKINS REDS ROSE

Setting Eggs Now Half Price

Still plenty of time to hatch your winners for the Winter shows. Send for mating list and special sales sheet of the best Summer sale of breeders ever offered.

HAROLD TOMPKINS

Box A

CONCORD, MASS.



Fashion Plate Buff Orpingtons

Eggs at half price—\$2.50 and \$5.00 per 15
from yards worth more than twice the cost

Breeding Pens \$15, \$20 and \$25—one male and four females. Don't put off longer what you have promised yourself for years.

A. E. MARTZ, BUFF ORPINGTON SPECIALIST AND JUDGE

Box A, ARCADIA, IND.

ers. We are in position this year to supply you with eggs from the *World's Best Pens* of S. C. White Leghorns," etc., and the other promoter of the resolutions, at the time of their adoption, was circulating an advertisement which stated, "If you want to win and breed winners you must have my Imperial 'Ringlets'—they are the standard by which all other Barred Rocks are judged." Naturally, it appeared to us rather odd that these gentlemen should so vigorously condemn in others this very sort of flamboyant advertising and should feel it necessary to have the American Poultry Association adopt resolutions to censor and censure such advertising.

Probably most of us have, thru being accustomed to seeing it and finding it difficult to eliminate, looked upon such "hot air" catch lines as comparatively "harmless statements," but in view of the recent opinion of the Supreme Court, the matter comes into a very different light and advertisers will do well to considerably modify their methods of advertising and to endeavor to eliminate such "hot air catch lines" and so-called "harmless statements" so that they will not be liable to prosecution under the coming enforcement of the laws governing mail advertising and doing business thru the mails.

Status of Reading Notices.

A SUBSCRIBER sends us a considerable amount of correspondence, with a contemporary publication, in which it appears that he wrote to the editor of the magazine complaining that a certain cut accompanying a "write-up" was a faked picture and claiming that the original photograph was taken at a place widely remote from the place written up. He also stated that the "write-up" was not in any way marked "advertisement."

In the correspondence he sends us is a copy of a letter, presumably written by the acting editor of the magazine to the advertiser written up, in which the editor asks for information concerning the illustration questioned as being "faked" and in this letter states, that the

"write-up" was published by request and "As this extra service was due you on your advertising contract, we prepared the article, eliminating quite a good deal of it and published it," etc.

Looking up this "reading notice," published as a part of "extra service" due on advertising contract, we do not find that either the article or cut are in any way marked "advertisement." Our subscriber points out that such use of "reading notices" as part of service on an advertising contract is contrary to the Postal Laws and Regulations and quotes from them as follows:

"All editorial or other reading matter published in any such newspaper, magazine or periodical for the publication of which money or other valuable consideration is paid, accepted or promised, shall be plainly marked 'advertisement.'"

Following this is a provision for a fine of from \$50 to \$500 if it is proved that the publication accepted any consideration or promise of such for publishing of reading matter which was not duly marked "advertisement."

We have frequently been told by poultry breeders that in order to secure write-ups in certain publications they had to agree to take additional advertising space and on several occasions they have shown us contracts or letters indicating that publication of such reading notices or write-ups was a part of extra service on contract, or in consideration of use of increased advertising space. From above information it will be seen that the use of such reading matter, unless

duly labeled "advertisement" may be proved unlawful in case any "consideration is paid, accepted or promised."

It would appear that in this matter some publishers are trying to skate on rather thin ice.

Egg Cost Article Contest.

THE egg cost article contest, which was announced in March AMERICAN POULTRY JOURNAL was rather disappointing. The number of articles received was small and only two articles complied with the conditions of the contest. Several of the articles, which failed to conform with the rules of the contest, gave interesting data but did not show actual production cost of eggs and in some of them the authors seemed much more concerned in endeavoring to show a profit, on paper, for their flocks than in giving an accurate account of what it cost to produce eggs.

While March and the busy chick season may have been an unfavorable time of year for obtaining articles, which require as much work as cost articles make necessary, we believe that the chief reason that so few good articles were received was because very few poultry keepers keep an accurate record of expenses and receipts, and still fewer at-

Smith's White Leghorns

Are the Most Consistent Winners in America. Catalog telling all about them sent upon request. Eugene C. Smith, 317 Galena Blvd., Aurora, Ill.

Barred Plymouth Rocks

Lady Beautiful Strain

Wonderful records have been established by my birds at **Madison Square Garden, Philadelphia, and Hagerstown.** This record includes many firsts and other prizes.

Eggs for Hatching from These Winners

at reasonable prices. Now is the time to buy. Satisfaction guaranteed.

C. N. MYERS Box E Hanover, Pa.

Big Reduction

EGGS from our Special Matings, two settings for \$10.00, Beginning May 15. Chance to get eggs from the \$15.00 pens.

Rhode Island REDS

Carver's Queen Quality Strain wins at **Chicago Coliseum this Season**

1st S. C. R. I. Red Young Pen, 2nd S. C. R. I. Red Old Pen; also won Championship Cup for best Reds in Ohio, 1912; also the two silver tea sets for best display and best cockerel, Cleveland, 1912. Winner of 100 ribbons, and customers won in 30 states in 1914, 50 ribbons, including 27 first prizes at America's largest shows, 1915.

Caesar The Great also won first at N. Y. State Fair, defeating over 50 cocks this season. All above winners grown from our own matings. Our last season's egg customers also report heavy winnings.

We pride ourselves on our many re-orders from old customers.



Undeclared Champion, CAESAR THE GREAT
Defeated 50 Cocks this Season

SUSSEX SPECKLED AND RED SUSSEX

Importers from England's Best Sussex Breeder and we now have on our farms, direct from England, the Great International Champion, KING, First at Crystal Palace, London.

Our Winnings: At National Sussex Meet, Chicago Coliseum, in tremendous competition—First Young Pen Red Sussex, and 15 Firsts in Sussex alone at the three big fall shows. Great Forest City Fair, Red Sussex, four firsts; Great Allentown Fair, Red and Speckled Sussex, four firsts; Ohio State Fair, Red and Speckled Sussex, seven firsts.

Write Us Before Buying Eggs or Stock

Our Sussex customers won at Madison Square Garden, Buffalo, and other shows too numerous to mention. Will it not pay you to buy of one whose customers win as well as himself?

A. A. CARVER, Specialty Breeder
Lock Box 100, SEVILLE, OHIO

tempt or know how to keep a detailed cost account. We believe that it will pay all poultry keepers to keep accurate accounts with their fowls and that the data so obtained will prove enlightening.


The first prize of \$10 for best article goes to A. C. Drury, proprietor Buena Vista Hennery, Piermont, N. H., who sends a most excellent and carefully prepared article. He has had over fifty years experience with poultry, is egg-farming for a living and has kept accurate accounts solely for his own satisfaction. Be sure to read his article.

The second prize of \$5 goes to A. J. Myers, 585 High street, Blue Island, Illinois, and his article will prove very interesting.

We hope that more of our readers will keep books with their fowls and that later on we may be favored with their carefully kept records of expenses and receipts, covering the work of one or more years.

Aldrich Orpington Article Contest.

THE announcement of a three prize contest for best articles on S. C. White Orpingtons, prizes offered by Aldrich Poultry Farm, Columbus, Ohio, made in our April issue, brought a flood



ENGLISH-LEGHORNS
5-6-7 lb. hens, 7 and 8 lb. cocks.
Fertile eggs, guaranteed. Trapped and Pedigreed Stock.
WILLIAM B. WHITNEY.
Marlborough, N. Y.

Importer and Breeder

McDannell's White Leghorns
200-Egg Strain Win-Pay-Lay
Hatching Eggs and Day-Old Chicks
M. O. McDANNELL, 1430 24th Avenue A Moline, Ill.



"Regal Queen," First Boston Hen 1913

of manuscript from enthusiastic Orpington "fans."

Some fifty articles were received and Orpingtons were represented by contributions from California, Missouri, Colorado, Nebraska, Washington, Montana, North Dakota, South Dakota, Kansas, Texas, Wisconsin, Florida, Georgia, North Carolina, New Jersey, Pennsylvania, New York, Massachusetts, New Hampshire, Ohio and Illinois and Canada, from New Foundland to the Pacific coast.

First prize for best article, the 1st Buffalo cockerel, to be delivered July 1st, goes to John A. Carruthers, an attorney, 121 East Pike's Peak Ave., Colorado Springs, Colo.

Second prize for next best article, a \$15 sitting of eggs, goes to James Emmet Royce, W. 2214 Jackson Ave., Spokane, Wash.

Third prize for next best article, a \$10 sitting of eggs, goes to S. D. Brennan, 3140 Irving Ave., Berwyn, Illinois.

The available articles in this contest will be published as space permits. Aldrich Poultry Farm has been notified as to addresses of winners and will forward prizes.

Our Cover.

THE increasing popularity of Silver Campines is due to the fact that they have made good all the claims advanced for them by the breeders. As extraordinary layers of large eggs they cannot be excelled and we believe there are no other breeds of the same weight and size that will produce them in greater numbers than they. On account of Campine males being henfeathered, they

will breed remarkably true to colors and more good marked birds can be produced by single mating them than can from any other two or three color breed. Since the American fanciers have taken hold of them, a greater uniformity in type and color has been produced and the quality of first prize winning specimens nowadays compares very favorably with the advance some of the oldest breeds have made. We take great pleasure in showing on our cover this month a handsome specimen belonging to Mr. F. E. Hering, of South Bend, Ind. This bird was one of the many first prize winners produced by Mr. Hering and shown at Chicago, Milwaukee and other great shows. The picture speaks for itself, there is no alteration in the shape of the bird or the barring.—L. A. S.

DR. WOODS' NOTES AND COMMENT.

JUNE.

It is the month of June,
The month of leaves and roses,
When pleasant sights salute the eyes
And pleasant scents the noses.
—Willis.

Try hatching and rearing a few June chickens this season. Give them comfortable quarters in a shady grove or orchard, keep them free from vermin, take good care of them and watch them make rapid growth and develop unusual excellence. Many winning youngsters have been grown from June hatched chicks.

We like to use flowers of sulphur for dusting fowls and chicks, to keep down lice and to dust in nests to keep out all sorts of insect pests. This year it has been unusually difficult to get a supply and the price is uncommonly high. The sulphur is needed in manufacture of war munitions. Just another argument against war—why waste so much sulphur in man killing, when we need it so much to get rid of the hordes of insect pests that are disputing with mankind, and useful animal life, the possession of this beautiful earth?

This has been the most backward season with us for many years and all planting was late. Apple trees did not begin to show blossom buds until the middle of May and altho we had some warm days, the nights were raw and cold. We are not growing as many chickens as common this season and shall content ourselves with a few hundred and limit them to three varieties. Hawks are unusually troublesome and, because our flocks are so much smaller, the raids by these feathered robbers trouble us a good deal. We keep steel

Martin's Regals

HALF-PRICE EGG SALE

After June 1st, the price of eggs from my prize matings (as they run) will be \$2.50 per 15, \$4.50 per 30, \$6 per 45, \$12 per 100, Dorcas pens—\$3 per 15, \$5.50 per 30, \$8 per 45, \$16 per 100. Special matings—\$5 per 15, \$9 per 30, \$12 per 45, \$24 per 100. Utility matings—\$3.50 per 50, \$6.50 per 100.

This is an excellent chance to become acquainted with

AMERICA'S FINEST WHITE WYANDOTTES

at small cost. 80% of my winning cockerels and pullets at the big winter shows are June hatched.

Free—Send for catalog and summer sale list, giving description of several hundred breeders I am offering for sale. Send one dime for the Regal White Wyandotte Book telling all about White Wyandottes.

JOHN S. MARTIN, Box 51 Port Dover, Can.

The Famous VIGOROUS STRAIN Homestead Silver Campines



1st Pen Male
Syracuse, 1915



1st Prize Pullet
Boston, 1916

Our new catalog tells the story of this wonderful and interesting breed of fowl. If you are interested, we shall be glad to send you a copy free. Ten cents will be appreciated for postage.

Reduced Prices

Our reduced prices for hatching eggs after June 1st are as follows: \$3 per setting of 15 eggs, \$8 per 50, \$12 per 100 eggs.

Selected eggs from our best pens: \$7.50 per setting of 15 eggs, \$12 per 30 eggs, \$20 per 50, \$35 per 100 eggs.

Homestead Campine Farm
Box A Wayland, Mass.



5th Prize Cock
Boston, 1916

traps set on top of high birch poles and a shot gun always ready for service, but in this thickly wooded district the clever hawks are exceedingly hard to get and are remarkably bold and wary.

* * *

Altho the roads have been bad all spring, we have never before had so many visitors who come to see poultry houses or just "talk chicken." They come on foot, on bicycles, motor cycles and in automobiles—real ones and "Tin Lizzies"—but, whatever way they come, the real poultry interest seems to be the same and we try to make them welcome. Only, we do wish that they would cut out Sunday visits—we would much prefer to have Sunday to ourselves with just the family and personal friends. Still, we suppose that Sunday is the only day that some of them can come.

* * *

Every little while some cute little editor with an ingrowing grouch, or a bad case of indigestion and irritable liver, hands us a hot shot about AMERICAN POULTRY JOURNAL'S "swamp" or "great mass" of advertising and suggests that we edit the JOURNAL in "a little office on the top floor of a sky-scraper in the city, in a place where a live chicken would be a curiosity." That's a pretty rich joke and it shows how envy and covetousness will lead even capable men astray. Of course AMERICAN POULTRY JOURNAL does carry a lot of advertising for the reason that an ad in AMERICAN POULTRY JOURNAL proves a big puller and pays well—for subscribers read our magazine and believe in it—but the writer of these notes has never yet solicited an ad for the journal and has nothing whatever to do with the business department. Also, we will let you into inside facts not generally known, we are right now pounding out this copy in our office at home on a 30-acre Massachusetts farm, with a whole bunch of brooders and brood hens with chicks of our own in plain sight and within sound of our office windows. Furthermore, in the more than five and one-half years we have been editing AMERICAN POULTRY JOURNAL, we have only been in Chicago three times and our visits to the publication offices could be summed up into a total of less than 14 days in all. Most of our time is put in right on The Anchorage Farm at Silver Lake and such time as we spend away from home is at winter poultry shows or in visiting poultry plants, when weather conditions are favorable and other work will permit. We are willing to wager a good dinner that it will be exceedingly difficult to find a half dozen poultrymen who spend more time on the farm where the real "live chickens" are, and less time in the city, than we do.

* * *

Plant any trees this spring? We did—not the way politicians do it—but in the regular old fashioned dig in the dirt way. Set out some fifteen new shade trees of several varieties and from 6 ft. to 10 ft. tall and we believe that most of them are going to do well. Also put in a lot of nice shrubs. Did not attempt any fruit trees this season, as the gypsy moth and brown-tail moth pests are so exceedingly troublesome and so liable to be fatal to young trees. This part of the state is over-run with the pests and the state authorities have not been able to accomplish anything toward control of this destructive pest. The big cater-

pillars will attack any kind of tree and it has been necessary to cut all hard wood out of pine groves in an effort to protect the growing pines. Asparagus we set out two years ago is giving us a remarkably fine yield this season. We set out large old roots and put them in on very early land richly fertilized, and set crowns at a good depth. Have used the bed as a run for growing chicks to keep down the weeds and to keep the soil well scratched over and the results have been fine. Never saw any better "grass" and the flavor is uncommonly good. Strawberry bed set out last summer has wintered well and is promising. A bed of dwarf curled parsley which was unprotected all winter has come thru in fine shape and is the greenest and brightest spot in the garden. Clover is coming in strong on every spot where we had a brooder or brood coop last season.

* * *

Last month we stated that we were thinning down our flocks to but three varieties, Black Langshans, White Plymouth Rocks and White Leghorns, and so far as keeping breeding pens and males of our other varieties that goes as it stands. But we have a few brood hens among the White Faverolles that have earned the right to stay on our farm just as long as they want to and to raise broods as long as they are willing and able. We never saw better mothers. They stay with their broods long after they begin to lay and mother the chicks until fully fledged. These brood hens prove to be veritable Amazons and will fiercely attack hawk, skunk, cat or other varmint in a way that makes them invaluable as mothers. Also they seem to see a hawk and sound the alarm sooner than any other brood hens we have. Such mother hens are worth their board any time.

* * *

The following letter will interest members of the fancy:

Brattleboro, Vermont, May 4, 1916.

Dear Editor:

I am always glad to receive the American Poultry Journal and look forward to its coming from month to month. I was particularly interested in the May number, in the article by Mr. Latham, and I wish to say Amen! and Amen!! and again Amen!!!

I have been judging poultry for over twenty-five years and have been a breeder of fancy poultry of different breeds and varieties for over forty years and have had some experiences in following out this disqualification humbug. I have seen the foolish, nonsensical rule whereby some of the best specimens that ever graced an exhibition hall had to be "turned down" just for a little speck of down between the toes or a little side sprig on a comb of an otherwise high-scoring bird that sometimes happened to be in a pen and the entire pen had to be disqualified.

Yes, I think it is about time those who have the making of the Standard get down to a few sensible ideas in making Standard law. Dis-

qualify for deformities and cut for minor defects. This has been the ground taken on this subject for years by my long-time and honored friend, I. K. Felch, and no man living is better qualified to express an opinion on this subject than Mr. Felch. His long experience as a breeder and judge enables him to pass upon such questions from experience that has been evolved by study and observation for many years, before there were any helps in the way of poultry publications and writings which the poultry culturist of today enjoys.

It always seemed to me a very good way to show your appreciation of a good deed, or a particular meritorious achievement where it has been of great value to a vast number, by presenting an occasional bouquet before they "pass on" or "cross the bar" and in your editorial you speak of the admitting of the Langshan breed at Worcester in 1883. Reading your editorial brought forcibly back to memory the circumstances connected with the presentation of the petition and the eloquent plea made by Mr. Felch for the admission of the Black Langshan breed to the Standard.

It met with some opposition, not so apparent in the Convention as it had in the committee room, but there was an undercurrent of opposition until Mr. Felch slowly unrolled the petition, holding it at arm's length above his head—and he is no dwarf—the end still rested on the floor. Then he quickly stepped up into the chair in which he had been seated, held the petition in his hand and very dramatically said, "Gentlemen of the American Poultry Association, 1200 Langshan breeders are knocking at your doors. Will you deny them admission?"

The entire Convention was electrified and not a dissenting voice was raised against their admission and this, after months of bitter opposition largely brought about by many of the Black Cochins breeders.

But this is past history. The Langshan breed has never disgraced its early advocates, for they are and always have been a grand breed and I have often regretted their lack of numbers in the show room. May their numbers increase.

Very truly yours,

D. E. Tasker.

* * *

We appreciate Mr. Tasker's fine letter and many others which came concerning this and other matters in May JOURNAL and wish we could print them all. Our mail this spring has been heavier than ever before in our experience and we have been literally "snowed under" with letters, all of which we were very glad to get and to read, but many of which it has been impossible for us to take time to answer personally. However, we take this opportunity to thank our many friends for writing to us and we hope that they will continue to write even tho we may not find it possible to make a personal reply. Such letters are mighty good to receive and they encourage and stimulate one to endeavor to do better and more useful work.

* * *

Ringville, Mass., May 4, 1916.

Mr. Editor:

Please excuse me for intruding on your valuable time, but I wish to express—in my humble way—appreciation of and for your valuable notes and editorials. Those in May issue are worth—to me—the price of the whole Journal for the year.

I was much pleased the way Mrs. Woods spoke of Scott Nearing. It certainly is time

HALBACH'S White Plymouth Rocks

WINNERS INVINCIBLE LEADERS

Sale Extraordinary. Get your copy of my great Half Price Sale. Never, anywhere, has any breeder offered such astonishingly outstanding bargains. Your opportunity.

H. W. Halbach, Route No. 1, Dep't. E, Waterford, Wis.



that the people of the whole world do their own thinking.

Yours truly,
E. Barent Pease.

This is just another sample letter from our readers. It is a great pleasure to know that readers of AMERICAN POULTRY JOURNAL find our magazine valuable and that they find food for thought in our columns, which leads them to express their appreciation in so kind a way.

* * *

To all members who intend to attend the annual convention of American Poultry Association at Cleveland, August 8, we commend this letter from an earnest member who attended the last convention:

Lewiston, Idaho, May 1, 1916.
Editor American Poultry Journal:

In view of the apparent helplessness of the American Poultry Association to transact business in convention assembled, in a business-like way, as demonstrated at the meeting in San Francisco, when two-thirds of the convention's time was taken up with hot-air and the airing of personal grievances—if any one thinks this is not so, let them read over the "official proceedings" (?) carefully—I would suggest that some sort of rules be promulgated

and every delegate elected to the Cleveland convention be pledged to their support, whereby we can muzzle a few "leaders"—God save the mark—and get the business before the house handled as we would our private affairs.

As a starter I would suggest a rule allowing a delegate or member to speak on any given subject once only and then only for five consecutive minutes, unless he be the maker of the motion—in which event he be given two periods not to exceed five minutes each. That no delegate or member be allowed to waive his time in favor of another speaker, thus allowing one man to speak his own five-minute period and that of a figurehead, whom he has coached beforehand to so waive his allotted time; unless, with the unanimous consent of the convention.

Another thing which should be taken up is that any report of the Executive Board, when sitting as a trial body, shall be final. If the convention hasn't the confidence in its Executive Board, composed of the State Presidents, and usually twenty to thirty of them sitting on the trial board, then all charges should be tried in open convention before as many members as care to attend. The reason for this rule is that at the San Francisco convention the Harrison-Penick case was before the Executive Board three times and when the matter was finally concluded in the convention hall it was before but a very few more members than had composed the trial board; certainly less than three-fifths of a legitimate quorum.

Sincerely,

Robert G. Bailey.

We note on page 6 of the *Quarterly Bulletin* of the American Poultry Association an item with the caption "Be Charitable" and the sentiment expressed is excellent enough; but we do not notice that the official bulletin itself appears to have any notion of really practicing being charitable. There is the same old knocking of Mr. De Graff, whose membership was terminated so long ago that he is almost unknown to a majority of present members, except for the eternal and everlasting kicking of the man who is down, and the lambasting of the underdog, that continues to be "recognized" and published officially. "Be Charitable!!"—Well, why not practice a little "Charity," Christianity and real Fellowship, instead of so much smug hypocrisy and self-proclaimed "lily whiteness," fellow members of the American Poultry Association? It isn't a fine thing to expel a member and it is not a thing to preen one's feathers and be proud about—it has to be done sometimes, perhaps,—altho we don't believe that punishment ever reformed a bad man or a criminal



Aldrich White Orpingtons

REDUCED PRICES

AFTER June 1st, we offer eggs from our BEST EXHIBITION MATINGS at \$5.00 per setting, and from our BRED-TO-LAY pens at \$3.00 per setting. Every customer receives a copy of our booklet, "From Shell to Show Room," which will enable you to grow your birds to full size in six months.

SPECIAL PRICES FOR STOCK

During June and July we offer our remaining male birds at one-half our regular price, also a nice lot of this season's early hatched cockerels from our best matings at \$3.00, \$5.00 and \$10.00 each, and pullets at \$2.00 and \$3.00 each. These birds when fully developed will be worth several times what they will cost you at this low price.

If you wish to breed White Orpingtons that you can sell at a good price, place your order with us, thus enabling you to advertise ALDRICH STRAIN WHITE ORPINGTONS, for which there is always a demand, as every one knows that Aldrich White Orpingtons have been the GREATEST WINNERS in America's best shows for years, as well as having proven their high laying ability by their records in the National Laying Contests.

ALDRICH POULTRY FARM, 5076 N. High St., Columbus, O.

Did You Take Advantage



of the opportunity offered you last month to get eggs for hatching, baby or six-week-old chicks as well as breeding and exhibition birds of

The World's Best White Wyandottes

at half their value? If you did not, there is time yet. Send for our

Special Sale List

full of bargains you should know about. You are the one who will lose if you fail to send for it. IT'S FREE. Just remember that we are now preparing young and old birds for the early fall shows.

We are growing the young ones out and conditioning the old ones FOR YOU. That is Fishel Service which goes with each and every purchase.

J. C. FISHEL & SON

Box J

HOPE, INDIANA



Young's Strain S. C. White Leghorns

I HAVE NO OTHER BREEDS

Acknowledged thruout the world as being the standard of all the Leghorns of all America, and the leaders of heavy layers. Eggs at half price remainder of breeding season. I have hundreds of yearling hens for sale. Why not come to headquarters and get the best. Mating list free.

D. W. YOUNG

:::

Box E12

:::

MONROE, N. Y.

while human kindness often has done good—and when it is done it is a matter to feel sad about and to, if possible, forgive and forget. There are some of us members in "good standing" today who may deserve expulsion just as much as men who have been "kicked out" of the Association, only fate has been kind and we haven't committed the sin of "getting found out" or refusing to contribute bakshish to Barabbas. For goodness sake, gentlemen who prepare the American Poultry Association *Bulletin*, after you have killed and buried a victim, do not go out and try to kick the sod off his grave. Take a little of your own advice and "Be Charitable!"

* * *

A very considerable number of proposed resolutions and amendments will be found in the *Quarterly Bulletin* which, presumably, is in the hands of all members. It therefore does not seem necessary for us to give them space in this magazine, since they are of interest chiefly to members only. If, however, there should seem to be occasion for comment we may have something to say on the subject in the July issue.

* * *

Bernard Shaw has just published as a preface to his play "Androcles and the Lion" a particularly interesting article entitled, "Why Not Give Christianity a Trial?" Better get it and read it, you will find it decidedly worth while and containing some food for thought. In brief, the argument of Mr. Shaw may be summed up: "Do you want to be rid of war? Try Christianity. Do you want to try Christianity? Then you must begin by enacting equality of income." We quote below a little of what Mr. Shaw has to say; it may give you an appetite for more:

"The question seems a hopeless one after 2000 years of resolute adherence to the old cry of 'Not this man, but Barabbas.' Yet it is beginning to look as if Barabbas was a failure, in spite of his strong right hand, his victories, his empires, his millions of money, and his moralities and political constitutions."

"This man," continues Mr. Shaw, "has not been a failure yet," because his way has never had a fair chance. "The moneyed, respectable, capable world has been steadily anti-Christian and Barabbasque since the crucifixion; and the specific doctrine of Jesus has not in all that time been put into political or general social practice."

"I am ready to admit that after contemplating the world and human nature for nearly 60 years, I see no way out of the world's misery but the way which would have been found by Christ's will if he had undertaken the work of a modern practical statesman."

"It seems, therefore, that we must begin by holding the right to an income as sacred and equal, just as we now begin by holding

the right to life as sacred and equal. Indeed, the one right is only a restatement of the other."

"To hang me for cutting a dock laborer's throat, after making much of me for leaving him to starve when I do not happen to have a ship for him to unload, is idiotic: for as he does far less mischief with his throat cut than when he is starving, a rational society would esteem the cutthroat more highly than the capitalist."

"The thing has become so obvious, and the evil so unendurable, that if our attempt at civilization is not to perish like all the previous ones, we shall have to organize our society in such a way as to be able to say to every person in the land, 'Take no thought, saying what shall we eat, or what shall we drink, or wherewithal shall we be clothed?'"

"We shall no longer have a race of men whose hearts are in their pockets and safes and at their bankers. As Jesus said, where your treasure is there will your heart be also. That was why he recommended that money should cease to be a treasure, and that we should take steps to make ourselves utterly reckless of it, setting our minds free for higher uses."

"In other words, that we should all be gentlemen and take care of our country because our country takes care of us, instead of the commercialized cads we are, doing everything and anything for money, and selling our souls and bodies by the pound and the inch, after wasting half the day haggling over the price."

"Decidedly, whether you think Jesus was God or not, you must admit that he was a first-rate political economist."

* * *

And now, Friend Reader, we want to ask you a rather intimate personal question: Just how much better is your home community for your having lived in it? Have you ever given the matter

a thought? Or have you just lived right along, paying your bills, keeping the peace, and being just an ordinary law-abiding citizen, commenting on or kicking about "local conditions," and "knocking" a little perhaps, but not once considering it your duty to get out and do your part to make conditions better?

We have always been counted a fairly "active" citizen wherever we happened to be located, but we fooled ourselves for a long time, moving about in search of "a desirable location" before we woke up and discovered that a community is a part of one's self and that much energy is wasted moving from one place to another, when if the same energy is properly applied, any place on this green earth can become a desirable part of "God's Country." When we moved here we liked the home farm, the neighbors were just as good as one is likely to find anywhere, but the local school had a poor reputation and it decidedly was not a place to which we wanted to send our own children. The youngsters were sent to a private school and we kicked a whole lot before we woke up to the fact that that school was just as much a part of our work as work on the home place and that if it remained undesirable it would be our fault. Personally, we are not entitled to any credit for the change that a few short years have accomplished; we have just done our little

S. C. BUFF LEGHORNS—Eggs for Hatching

From Chicago and Rochester Winners at reasonable prices. Stock for sale. Satisfaction guaranteed.
C. H. LEITNER R. F. D. No. 4, Box 8 ELGIN, ILL.



2nd Prize Pullet Bred Cockerel, Palace Show, 1915

LATHAM'S BEAUTY AND UTILITY Barred Plymouth Rks.

Choice breeding females selected from my matings of this year at very low prices.

Eggs for Hatching

for balance of season at \$5 per 15, \$8 per 30 and \$10 per 45.

C. H. Latham, Box 145, Lancaster, Mass.

Baby Chicks

will travel safely and comfortably if shipped in

Sefton Live Chick Boxes

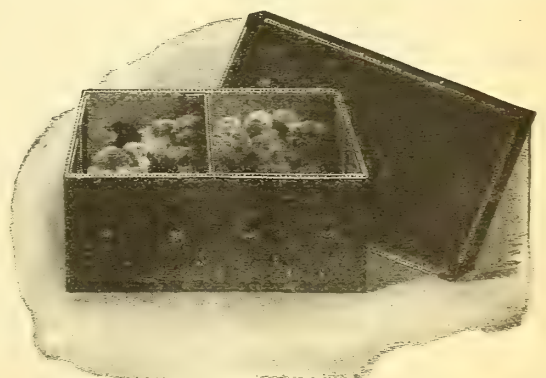
Such a box must be strong, properly ventilated, neat; the Sefton Live Chick Box fills the bill. Folded flat, easy to set up.

Send 25 cents for a sample box.

The Sefton Mfg. Co.

1329 West 35th Street

Chicago, Illinois



CHICKS

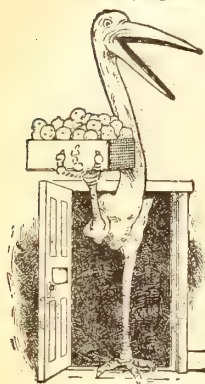
The kind you want. Good,
sturdy, pure blood stock—

Leghorns, Rocks
Reds
Wyandottes
Orpingtons

SPECIAL JUNE PRICES

Many are advertising
chicks—Which firm
will you select?
From customers' let-
ters—thousands of such
in our files:

"They are sturdy and strong,
not a crippled one among
them."—Thanking you for
more than a square deal."
"The pullets from last year
are wonders."—I purchased
fifty and received fifty-two."
"I am so pleased with the
R. I. Reds that I am order-
ing another lot."



Tiffin Poultry Farms & Hatchery
Write for catalog—it is free. Dept. A, Tiffin, Ohio

Reduction

See Following
Testimonials:

"I find your Rose Comb
Browns the best layers
of all breeds." 242 aver-
age record.

"Your S. C. Browns
have excelled as layers."
240 record.



Your S. C. White eggs are the finest I ever
saw and hatch better and stronger chicks."
This man bought this season thousands of
eggs. 288 line.

Barred Rocks—270 Egg Line.
S. C. Reds—248 Egg Line.
W. Wyandottes—228 Egg Line.

Your chance to get eggs of very best lines.
Special pen half price. General matings,
\$1.00 for 15; \$6.50 for 100; \$12.50 for
200. Catalog.

W. W. KULP, Box 70, Pottstown, Pa.



If a chick could choose
its birthday it would be
during the month of
June.

Pape's Single Comb Black Minorca

chicks hatched in JUNE are noted for their
quick growth, early maturity, great egg pro-
ducing qualities and beauty in form and
feather. Am offering eggs that will hatch
from our finest exhibition and utility mat-
ings at about one-half price, males that will
improve any flock, hens in laying condition
and chicks at introductory prices. Catalog
is free; state requirements fully.

CHARLES G. PAPE, Box B-74, FT. WAYNE, IND.
The Home of One of the Greatest Egg Laying Strains
of Prize Winning S. C. Black Minoras in All America.

CHAMPION LEG BAND



Aluminum, numbered to suit, with large raised
figures. Postpaid 100-60c, 50-35c, 25-20c, 12-15c. Initials
extra 10c per letter per 100; 50 or less 5c. More than
one initial with cut figures. Circular free giving
price on Small Chick, Superior, Riveted and
Pigeon Bands. Sample for stamp.

T. CADWALLADER, Box 1652, Salem, Ohio

PARTRIDGE PLYMOUTH ROCKS

Sale of breeders. 18 eggs given for a setting.
No Sunday Business

Meadowlawn Poultry Yards, Dept. C. D., Sand Creek, Mich.

INNISKA WHITE ROCKS STRAIN

Eggs from Illinois State Show winners half price
after May 1st. Few choice breeders for sale.

S. A. TYLER, W. Lincoln Highway, DE KALB, ILLINOIS

Mention AMERICAN POULTRY JOURNAL
when writing to advertisers.

bit to help. But Mrs. Woods, in co-
operation with a lot of other earnest
citizens, started out to "house clean"
school conditions and they have accom-
plished it. Funds were raised by local
public entertainment in which every-
body generously helped and contributed.
The ladies of the committee have ex-
pended those funds in making the school
grounds more attractive with trees and
shrubs. A school library was started
with useful and interesting books for
children of all ages. A bird talk by a
townswoman, who has made a life-long
study of birds, combined with a bird-
house building contest in which 15 out
of 30 scholars completed creditable bird-
houses and won prizes, helped to in-
crease the interest in the school. The
school now owns a Victrola and nice lot
of fine records of educational value.
The children are eager to do their school
work well and quickly, that they may
enjoy reading by the teacher from books
in the school library, music, or educa-
tional games that have been provided.
The scholars enjoy going to school and
they take pleasure in working to im-
prove school conditions for themselves.
The old school building is still much the
same and would stand a good deal of
improvement, but the little district
school itself has improved a thousand
per cent. Where we used to hear, "I
wouldn't send my children to that
school," the tune has changed and visit-
ors say, "What a nice school, how pleas-
ant it is and how happy the children
seem." The movement for school bet-
terment is spreading. Other schools,
the teachers, the pupils and the citizens
are co-operating in the work of helping
the schools to better themselves. The
work has only just started out, but it is
bearing an abundance of good fruit. It
is a good thing and you should help to
push it along. There are plenty of
things that need doing in every com-
munity—you are a part of the commu-
nity and of the conditions—just get out
and boost for better conditions and try
to interest others and stimulate a little
wholesome "team work." Life isn't just
a "grab game" in which money and
money getting is the only "treasure." If
your local community is not all you
would like it to be, get busy. Just ask
yourself, "What am I doing for my com-
munity, how much better is it for my
having lived in it? Then devote a little
of your time to working for better con-
ditions and you will be surprised to find
what a lot of folks want to climb onto
the "band wagon." What was that you
said about "knockers" and some "greedy,
envious, stingy" persons or ones bitten
by the "green-eyed monster?"—forget
them, if you just keep busy with real
honest and unselfish effort for better
things you will find that some of the
"knockers" evolve into the hardest
workers and biggest boosters. Try it.

* * *

And now, let's talk a little more
"chicken." Do not forget that summer
broods need shade and they need shelter
from sudden heavy showers. Cool fresh
water is also necessary and it should be
placed in a shady spot if possible. Sun-
heated drinking water isn't particularly
desirable, tho the chickens will drink
it if they can't get anything else. Be
sure to fight lice and mites this month.
When the warm days promise well, it
will be a good time to clean up and
whitewash the poultry buildings and a
portable sprayer will do the trick nicely.

The home of

Heavy Laying LEGHORNS

BRED to "Shell Out" Eggs, in Win-
ter, and do it.

One flock of 200 paid us \$5.62 each per
year. You can do as well.

Guaranteed fertile hatching eggs and stock
at let-live prices. Illustrated catalog. Write.

OSEE C. FRANTZ FARMS
ROCKY FORD COLORADO

Special Sale of DEEM'S Aristocrat BUCKEYES

Beginning June 1st

Utility Trios - - - \$ 6.00
Breeding Trios - - - 12.00

Order direct from this advertisement for
the pick of the flock.

Buckeye Poultry Yards
Eaton, Ohio

Perry's White Leghorns

won best display National Club meeting,
Rochester, 1916. Bred 14 years for eggs and
beauty. Best eggs now reduced to \$1.25 per
15, \$4.25 per 60, \$6.50 per 100. Day-old
chicks from prize matings \$3.00 per 15; also
fancy breeders at low prices.

LOUIS H. PERRY, Route No. 8, CLAY, N. Y.

Dr. Hess Poultry

PAN-A-C-E-A

For Young Chicks

Positively prevents losses from Gapes, Indiges-
tion and Leg Weakness. A splendid tonic for
helping chicks grow. Very economical—costs
only 1c a day for 30 chicks. At all poultry supply
and seed stores.

DR. HESS & CLARK, Ashland, Ohio

Columbian Wyandottes

Winners of the Blue wherever shown, includ-
ing 1st Prize Pen at Boston, Jan., 1916.

Eggs \$3.00 a setting, for June; breeding
stock for sale. Satisfaction guaranteed.

GILBERT POULTRY FARM
Whittier Road, Haverhill, Mass.

TENACRE

Exhibition Birds That Win! { S. C. WHITE } Utility Birds That Lay! { LEGHORNS }

Write for catalog and mating list.

Tenacre Poultry Farm

R. F. D. No. 3 - PRINCETON, N. J.

Sears' Barred Plymouth Rocks

Are sure winners. Breeders for sale now.
Howard O. Sears, L. Box 6, Garden Prairie, Ill.

A. C. WILLIAMS, Ravenna, Ohio

Speckled Sussex and Buff Orpingtons

S. C. WHITE LEGHORNS

Trapnested

Eggs from hens with egg record of 200 to 265, \$1.50
a setting. 8-week-old pullets, \$8 doz. Stock for sale.
CARL J. JENSEN, North Avenue, WAUKEGAN, ILL.

WHITE WYANDOTTES

If you want real bargains in prime stock or eggs,
write **CHAS. NIXON**
Box 202, Washington, N. J.

We had to drop these notes and run out and superintend the setting out of some Everbearing strawberry plants which had just arrived. The man doing the work well enough, but we wanted to see that the roots had been well dipped in mud and also we wanted to plant a few of them ourself. It is a heap more fun to dig in the garden and stir the soil with one's fingers than it is to pound this old typewriter to make "copy." If those plants do well, we expect to eat some home-grown late strawberries next fall. We saw a lot sent to market last Thanksgiving time that would fairly make your mouth water. Here's hoping that those berries do well.

* * *

Right in line with our window are three brooders and a nice bunch of White Rock chicks that are as busy as bees and that are working small "automatic feeders" out on a grass run. The way they play about in the May sunshine makes us wish we had decided to grow a few thousand instead of a few hundred; but we reckon we have to stay content with small flocks this season, for we expect to do a lot of running about to poultry farms as soon as the roads get into better shape for touring. Last season we had too many irons in the fire and more work than our one man could do when we had to be away. At this writing we have about 25 hens on eggs and every hatch has to be toe-marked and pedigreed, so we will probably get enough chicken before the season is over.

* * *

The Black Langshans please us mighty well, we used to keep them years ago, but we didn't appreciate them so much then. Now, with many years experience with many breeds, we find that the Black Langshans are fowls of unusual interest. They differ a whole lot from any other fowl we ever handled. Not only are their characters different, but they act and talk differently. The broody ones act a lot more like a broody turkey or wild fowl and they are so easily broken up and started to laying again that one has to be unusually careful in handling the sitters. J. F. Robinson, who won Sharp's No. 62 hen in the AMERICAN POULTRY JOURNAL Langshan article contest, decided that he hadn't time to experiment with sex-control stock and offered to sell the bird to us and finally traded for a lot of Black Langshan eggs from our Ebony exhibition stock. When the hen arrived she acted as if broody, talked that way, but the next day she began to lay and has been everlastingly at it ever since. We consider her a very satisfactory addition to our sex-bred flock. One thing that proves always interesting about this breed is their remarkable wing and tail development and their great activity. They are, in spite of their large size, as vigorous and active as Leghorns, remarkable foragers and not gross eaters for large fowl. We expect to get a good deal of satisfaction out of our lordly Blacks.

* * *

There has been a lot of complaint all over the country this season of poor hatches, altho fertility is exceptionally good and vitality of the breeding stock is reported as excellent. We have not had any trouble with home eggs, except those from the Langshans and we attributed this to the fact that the birds had had scant opportunity to become acclimated before we began to use the

Thousands Could Not Get Chicks At Any Price This Season



The Demand Will Be Even Greater Next Year A Real Business Opportunity for You

Hundreds of Operators of Candee Incubators have written that they have not been able to fill their orders for chicks.

Thousands of buyers have failed to get chicks at any price, because there has been too few incubators to fill the great demand this year.

And the demand will be even greater next season, because records show that the demand for chicks has increased every year in the past.

This proves that you will have all the orders you will be able to handle without hunting for them, and that you will have a most profitable business if you install a

CANDEE

Automatic Sectional Incubator Capacity—1200 Eggs and More

To insure the greatest profit from your hatchery, you want the machine that has proved that it hatches the most chicks and the best chicks with the least attention and expense and no trouble.

Because more Candees are in use than all other mammoth incubators combined and because the Candee is used and recommended by many Colleges and State Experiment Stations throughout the country, buyers of hatching space and day-old chicks have full confidence in the Candee Incubator. They prefer to have their chicks hatched in a Candee and to purchase birds that were brought to life in a Candee.

These are reasons why you will be taking the first big step toward success when you install a Candee Incubator.

Its Exclusive Patented Features

The Candee construction and principles of operation, covered by broad patents, are unchanged from the start, proving that our Incubator was right at the start, is right now and is not an experiment.

It is sectional in both construction and operation. Each 300-egg compartment has its own automatic regulator and there is also a regulator at the heater. Shipped all-built, ready to set up. Additional sections can be added any time.

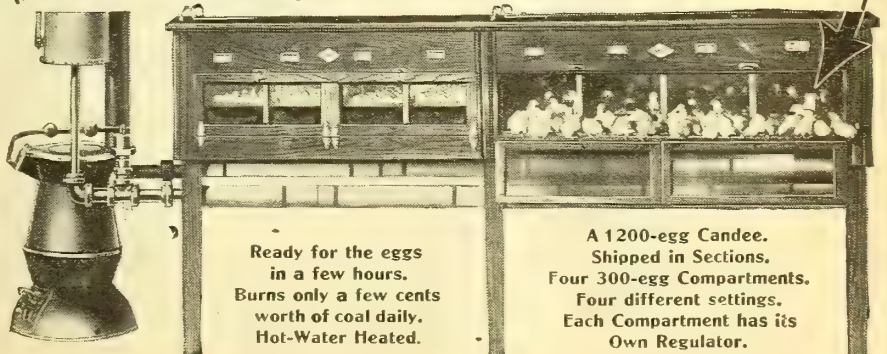
Prepare this spring to start your Hatchery next season. Our Service Department is at your command, and we will be glad to send you plans of incubator cellars and poultry buildings free.

Write for Your Copy of our Big Catalog

It contains pictures of hundreds of hatcheries, large and small poultry plants and State Institutions. This big book also contains poultry information that is most valuable to every one planning to start in the business.

CANDEE INCUBATOR & BROODER CO. Dept. 2, Eastwood, N.Y.

Licensed by W. A. Schleit Mfg. Co., Inc.



Ready for the eggs
in a few hours.
Burns only a few cents
worth of coal daily.
Hot-Water Heated.

A 1200-egg Candee.
Shipped in Sections.
Four 300-egg Compartments.
Four different settings.
Each Compartment has its
Own Regulator.

BARGAINS

S. C. WHITE LEGHORNS



S. C. WHITE LEGHORNS

4th Cock, Boston, 1916

You want good stock and I have plenty that I shall not use another season. Come to a breeder that is in the game for sport and that is selling the best of quality at prices that are right in every way. You will come again if you try my methods once.

WILLOW TREE POULTRY FARM

H. P. McKean, Jr., Beverly Farms, Mass.

Baby Chicks

out of 200-EGG STOCK pay best.

Records 200 to 249 eggs per year. Special price for June.

A Few Yearlings

to spare at low prices for quality. Book your order for 10-12 weeks old Pullets and cockerels for July delivery.

Barred, Buff and White Rocks, Reds, Wyandottes, Orpingtons, Leghorns. Catalog.

SUNNYSIDE POULTRY FARM
Box 1002 Bristol, Vt.McCONNELL'S
S. C. B. Minorcas

America's most famous trap-nested egg-producing and exhibition strain.

Winners at America's Largest Shows. Breeding and exhibition stock for sale. New sales list out June 15th.

J. V. McCONNELL

Box A Garden Grove, Cal., U. S. A.

Get This Poultry Book

—It leaves nothing to chance or guess-work. Tells positively How to Start Pullets Laying in Sept. & Oct.—How to Get More Eggs in Winter—Fattening Pullets—How Breeders Get Fertile Eggs—Mating, Forcing, Feeding, etc.—Feeding manufacturers of Darling's Meat Crisps—a highly concentrated, sanitary poultry feed. To get book, address

DARLING & COMPANY, Dept. 2, U. S. Yards, CHICAGO

Buff Orpingtons

Stock and Eggs now half price.

O. M. ABBOTT Box 10 WHITELAND, IND.

Powers' White Wyandottes

For Sale: Baby Chicks, Hatching Eggs and Stock.

J. H. POWERS POULTRY YARDS

7920 Bennett Ave. Chicago, Ill.

"Rainbow" Partridge Plymouth Rocks

Winners Madison Square Garden, Boston, Panama-Pacific Exposition.

THE ROCKWOOD FARM Box 1110, NORWALK, OHIO

WHITE ORPINGTONS

Our strain is noted for its heavy laying and prize winning qualities. Eggs from ten grand matings \$3.00 per 15; \$5.00 per 30.

CAIRNGORM FARM, Nottingham, Ohio

eggs for hatching. From our customers we have had only two complaints of poor hatches; but from readers everywhere we have heard of high fertility and low hatches and a considerable percentage of weakling chicks. We don't pretend to know the cause, but it is quite common for high fecundity, and high fertility, to go with poor hatches. It seems to be in line with Nature's provisions of compensation and she is always prodigal with seed.

* * *

One of our correspondents is certain that you cannot "rest" highly productive hens without actually abusing them. Maybe that is so, but just the same we propose to try to rest such hens as we hope to breed from another season, and we expect to get good results without any abuse. The birds will be well fed, but not forced, they will have an opportunity to sit and to rear a brood and after the brood is grown will live mostly on oats, greens and have very little rich food. In our experience the fat hens



S. C. Brown Leghorn, 3rd prize cockerel, Chicago, 1916. Owned by E. A. Crotser, Fulton, Mich.

lay best and the exceedingly heavy layer is apt to be a very heavy feeder and to incline toward fatty degeneration, if kept right along on a laying ration. It is possible to secure a remarkable egg yield for two seasons and to have the majority of the highly productive flock so fat internally, and particularly in the liver and about the ovary, that they are fit only for market—and must be marketed before they go to pieces. Now while such conditions work out all right for just laying stock to produce market eggs, with the hens sold off as "fat old fowl" at good prices when it is time to "scrap" the egg machines and put in new ones,—we don't want to push valuable breeding birds that way and so we try to rest them and do not encourage them to give maximum egg yield. True, some of them just will lay anyway and have to be fed to keep them in condition; but all problems of feeding, care and management have to be adapted to the needs of the flock in hand and in certain cases to individuals. Here, as elsewhere, it requires experience to know what to do, how to do it, and when to do it.

Make Money With Poultry

Our 48 Complete Lessons pave the way to success in Poultry Raising, the Quisenberry Way. Special low price now. Our Free Book, "Dollars and Sense in the Poultry Business," tells how. American School of Poultry Husbandry, Box 51, Mountain Grove, Mo.

IF YOU

want the best, we can supply you. After years of careful breeding and consistent winning, we feel safe in saying that our birds rank "second to none." The wonderful 1916 record achieved by

Hayward's White Plymouth Rocks

is fully told in a little circular, which we have issued. It is free for the asking. That you may become acquainted with real quality, we will send you 15 eggs from pen headed by 1st cockerel, Boston, 1916, for the small sum of \$5. (This offer is limited.)

W. F. HAYWARD, WESTBORO, MASS.



RILEY'S

White Wyandottes

BARGAINS in breeding stock for quick delivery. Need room for growing youngsters. May 20th to July 15th, eggs half price. Will guarantee eight chicks or duplicate setting free. Write your wants and for catalog.

R. J. RILEY, Box A, BRYAN, OHIO

Black Langshans

HALF PRICE SALE

Choice Stock at Real Bargains.

M. S. BARKER

Rural Free Delivery 1 Thorntown, Ind.



25,000 CHICKS

For Summer Delivery. Liberal discount.

Barred P. Rocks, White and Brown Leghorns, White Wyandottes, Reds Assorted chix 8½ cents. Catalog free.

STANDARD POULTRY CO.
Route 3 Nappanee, Ind.SPECIAL SALE OF
White Langshans

IN JUNE AT

MOHAWK POULTRY FARM
R. H. Moore R. F. D. 1, Nellie, Ohio

Single Comb White Leghorns and W. F. Black Spanish

Eggs for Hatching. Leghorn eggs, \$1 to \$5 for 15. Spanish eggs, \$2 for 15. Mating list free.

J. W. FRIESNER & SON Box C BREMEN, OHIO

Red and Speckled Sussex Silver Wyandottes

Stock for sale at all times. Eggs in season.

A. & E. TARBOX Box A, Yorkville, Ill.

White Runners For Sale

Only a few left, not the cheapest, but the best.

E. G. CURTIS Box A ATSON, N. J.

Ward's Champion DARK CORNISH

(Exhibited as Ward & Chilvers.) EGGS. Late hatched birds are best in color. Price List tells all about the Cornish. Red stamp appreciated.

John W. Ward, Jr. Box 7, Pennington, N. J.

"Golden Rod" BUFF ORPINGTONS

Prize Winners and Breeding Stock at reduced prices. Now is the time to buy and save money. R. M. SEWARD - Route 15 - LEWISTOWN, ILLINOIS

COLUMBIAN WYANDOTTES

Year Old Hens at \$2.00 each.

No Eggs or Chix.

ARTHUR-MERRELL SOLON MILLS, ILL.



CHICKEN CHOWDER MAKES CHESTY CHICKS Further information and a 48-page poultry book free for the asking. Mention dealer's name.

PURINA MILLS
801 Gratiot St., St. Louis, Mo.

Horticulture for Poultry Keepers

Conducted by Thos. F. Rigg, Iowa Falls, Iowa.



JUNE, THE MONTH of strawberry shortcake and green peas; of roses and flowering shrubs; the miniature apples, plums and cherries growing so fast that they seem to keep the leaves of the trees in motion as they push them out of their way; the currant and gooseberry bushes heavily laden with fruit; the grapes so plentifully loaded with shot-size fruit where the bloom has just fallen that it will be necessary to thin the fruit; the bees bringing in honey from the white clover fields; the young chicks growing faster than the weeds in a lazy man's garden; the sun shining warm; the sky a clear blue, and God over all. Oh, the joy of living these days.

* * *

This season I bought several hundred two and three-inch paper pots, and planted cucumber, melon, squash and sweet corn seed therein. The pots were then placed in mild hot beds. The seeds quickly germinated and I am looking forward to getting an early crop of these vegetables. When setting the plants in the ground in their permanent place I cut away the bottom of each pot, not disturbing any other part of it. In this way the plants were not injured and did not get a set back. They are now looking fine and promise well.

* * *

We ought to have some very early dahlias this season. Last fall by mistake a dozen clumps were left in the ground. I did not notice this until very late. I mulched the tubers heavily with straw and threw some brush on top the straw to hold the snow. The tubers came thru the winter unharmed and are now large bushes.

* * *

This month we will spray the grapes with pyrox. This will take care of any fungus disease and also any leaf eating insects. Since I began spraying the plum trees with sulfocide once in two weeks, beginning just as the blossoms are falling, I have had an abundant crop each year. I am using it on the melons,

squash and cucumber vines and find that it prevents blight. I use Black Leaf 40 for all aphids on garden and fruit crops alike. I don't see how I could successfully raise a garden or fruit without this preparation. The apple and cherry trees will be sprayed with arsenate of lead once or twice this month, and again in July to catch the second brood of codling moths. Watch the newly planted fruit trees for the aphids. The currant and gooseberry bushes received their supply of arsenate of lead some time ago and are safe from the ravages of the currant worm for all season. The raspberry bushes will be given three or four application of pyrox. This will take care of anthose and any leaf eating insects.

* * *

The following from J. S. Burray in the *Rural New Yorker* is, or ought to be, of interest to every home gardener:

Nearly all instructions for spraying are for large orchards, with power machines. Many

of your readers in this locality, and doubtless elsewhere, are, like myself, owners of a few fruit trees and a home garden. The instructions to use fertilizers, so many tons to the acre, and so many barrels of spraying material, are of no help to us. For the benefit of these readers I will say that I use a hand spraying machine, which is advertised in The *R. N. Y.* I can stand on the ground and spray trees 25 feet high. The cost was \$4, including three nozzles with different sprays. Contrary to the emphatic directions of the different experiment stations, I do not use lime-sulphur, as it is nasty stuff and stains the buildings badly. I use a miscible oil compound for scale, as a dormant spray. I get a 10-lb. pail of Bordeaux, a five-pound pail of arsenate of lead, and a can of Black Leaf 40; for summer sprays. I use a 12-quart wooden pail; use the oil spray as directed one part to 15 parts of water, about two full tablespoonsful of Bordeaux, one of arsenate of lead and one even full of Black Leaf 40, to a pailful of water. I have three old trees of Baldwins, two of plums, enough grapes for my own use, and berries and currants enough to sell a small amount. Also 20 or 25 young fruit trees coming into bearing. As to results, my Baldwins will nearly all grade No. 1 to fancy, and the other fruit does finely; of course I could not do this without pruning and thinning. I therefore say to the small fruit grower, or home gardener, don't think you can do nothing



QUEEN KATHERINE III
A winning Boston Pullet, 1916

Well Balanced Chicks

Must Be Bred from Well Balanced Birds

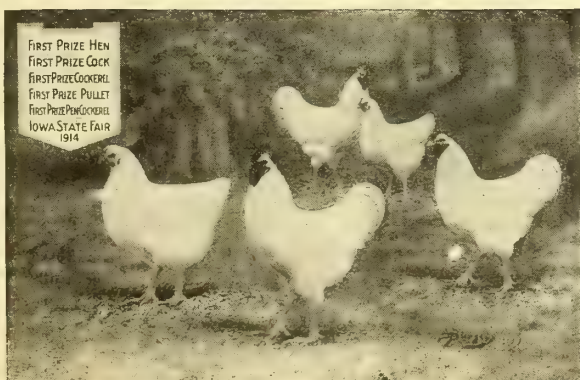
These are our specialty, and we are producing our winners from just these birds. One customer produced 10 prize winners from one setting of Barred Plymouth Rock eggs, with a total of 8 first prizes at 4 shows on these same birds. We can do likewise for you. Look up our record for 1916. Send for mating list.

Barred Plymouth Rocks
S. C. Brown Leghorns

GROVE HILL POULTRY YARDS
Box 555, Waltham, Mass.

W. E. BRIGHT, Prop.

F. G. COOK, Supt.



BARGAINS IN White Plymouth Rocks

Never in the twenty odd years that I have bred White Plymouth Rocks have I been in position to offer such bargains as I am now offering. Records prove

U. R. Fishel's, the Best

White Plymouth Rocks bred. You want the best when you can buy it at bargain prices. *Selected Breeders, Utility Flocks, Exhibition Birds, Baby Chicks, Eggs for Hatching at Bargain Prices.* Send for Free List.

U. R. FISHEL

Box A

HOPE, IND.

Make 'Em Grow Fatter FASTER!

Multiply Your
Market Poultry Profits

RRAISE the chick to broiler size quicker—at less expense. Now, just as your chicks are coming on, develop them into early layers. Remember, the first layers are the biggest payers.

Feed your fowls scientifically—it costs no more than feeding them haphazardly. Feed them the quick developers of table fowls—

RKD Poultry Feeds

Look at the pictures to the right. Photo No. 1, two-weeks-old chicks. Photo No. 2, chicks four weeks old, weighed five to six ounces. Photo No. 3, same flock eight weeks old, weighed 1 to 1½ pounds. Photo No. 4, same flock twelve weeks old, weighed 1¾ to 2½ pounds. Photo No. 5, one pen which laid 23% of the annual egg production during the winter.

RKD Poultry Feeds are made on the famous Arcady Farms, owned by Arthur Meeke, General Manager and Vice-President of Armour & Company, Chicago, Ill. They are scientifically balanced rations that are achieving remarkable results for poultry raisers everywhere.

RKD Baby Chick Feed—RKD Chick Feed and RKD Poultry Feed are put up in 100-lb. bags. Prepared with or without shell grit and charcoal, just as you prefer.

Give them a trial. Order a sample lot from your dealer today. If he cannot supply you write direct to

Arcady Farms Milling Co.
Box 65, Rondout, Illinois

Makers of the Famous RKD Dairy Feeds, RKD Calf Meal and RKD Horse Feed



ing, but get a small hand machine and do your own spraying.

* * *

Why will nurserymen, reliable nurserymen, send out plum trees on peach stock to planters in the sections where a peach tree or any tree on peach root is sure to winter kill? I have noticed for years the result of this action on the part of nurserymen. Every season thousands upon thousands of these trees are sent out to planters in Iowa, Minnesota and other states located in the cold zone. They never survive the first winter. It is a financial loss to the planters, besides the loss of a year's time in growth of trees. A few years ago many people saw the magnificent crop of plums of a certain hardy variety in my yard. The next spring each of these persons sent out a number of trees of the same kind. A year later they were digging them up. The trees were on peach root, and, of course, died during the winter. This thing hurts the planter and the nurserymen, but the nurserymen keep on sending out such trees. When ordering plum trees for planting in sections where the peach is not hardy, specify that such trees must be on plum root.

* * *

In April I dug up more than 200 raspberry plants which had come up along a fence bordering the orchard. The seeds from which these plants grew, were dropped by the birds. I am sure that out of all the plants I will get a lot of worthless ones. In fact I doubt very much if I will get one that will be worth saving, that is better than the ones of established kinds I have in the yard. But I will have the fun of hoping and watching them grow.

* * *

In answer to F. J. Jones, Illinois: The cherry slug is a small dark green larvæ that skeletonize the leaves. A second brood appears in August. There are usually two or three generations during the summer. If you will spray your trees with scalecide each fall after the leaves have fallen and in the spring before the buds swell you will have little trouble from the slug. Spray with arsenate of lead to kill any present slug.

* * *

If you did not plant a tree this spring you did not do your duty.

* * *

Says P. C. Stark in *Tree Talk*:

Now comes another authority, State Zoologist Surface of Pennsylvania, with assurances to the Audubon Society that spraying fluids are not harmful to birds. No use, professor, for these dear folks, whose cats are the deadliest enemies birds have, simply won't believe it—don't want to believe it. A blue jay might take on enough arsenate of lead to kill him—provided he fell into a mixing tank. It's a well known scientific fact that in the process of pecking holes in perfect apples and peaches he never suffers any set-backs to his digestive apparatus peculiar to humans—never gets put off watch.

Write for Our Free Catalog

of these nests, coops and many other articles

You will save money and get the very best. We make exhibition coops, trap nests, setting coops, brood coops, colony coops, portable henneries, portable fences, fireless brooders, fattening crates, runways, etc. Mention American Poultry Journal. Address,

Niemann Bros. Mfg. Co., Box 677, Mt. Olive, Ill.



Economy Trap Nest

Queen Strain S. C. W. Leghorns

Hens and Pullets in full lay, \$1.00 each. 500 eight to ten-week old Cockerels, \$1.00 each. All have 200 egg blood! Order from this ad.

APPLEGROVE POULTRY FARM

W. B. TYRRELL, Prop.

Delavan, Wis.

Use RIPLEY'S Whitewasher and Sprayer



For Whitewashing and Disinfecting Hen Houses, Sheds, Spraying Bushes, Vines, Trees or Buildings 20 foot high. Made of brass and galv. steel. Prices: No. 15, 4-gal., all brass body, \$10.00. Galvanized body, \$7.50. "I have used your No. 15 Sprayer 10 yrs. to whitewash hen houses. Works fine. Respt. W. E. Miller, Independence, Kan. Order from this ad, or write for catalogue of Whitewashers, Egg and Chick Boxes, Poultry Supplies, etc.

Ripley Mfg. & Steel Boat Co.
Box #2, Grafton, Illinois

Year after year our Montmorency cherry trees out-yield all other varieties. I am convinced that this is the most valuable cherry for the home and commercial orchard. In buying Montmorency trees be careful in placing your order and insist on getting the large fruit variety. There is a Montmorency tree being sold by many nurserymen which bears a small fruit.

I am in receipt of a number of letters from people who have been solicited to take stock in commercial orchard companies. In each case I have advised my correspondents to have nothing to do with such enterprises and to refrain from investing in any such schemes.

A short time ago I attended the annual meeting of the fruit growers' society of our Iowa County. There were a large number of people present. Many women were there and they were as interested as the men. I was glad to see these women present, and glad, too, to notice the interest they took in the discourse regarding the planting of ornamental shrubs, etc., on the farm grounds. If the wives and daughters of the farmer will insist upon the home grounds being made a beauty spot instead of a dumping ground for machinery, they will soon change the present deplorable condition everywhere apparent thruout the country.

The blue jays are again killing my little chickens. This morning I heard a hen in the orchard in a word quarrel with something. Upon going to where the hen and her chicks were, I found a

blue jay had killed two chicks and was sitting in a tree evidently taunting the mother, and boasting of his skill as a murderer.

In answer to Thos. Murray, Minnesota: I do not believe you will be able

to plant the Grimes Golden apple in Northern Minnesota. It is not hardy so far north. You can graft Grimes Golden scions onto Wealthy trees as you suggest, but I would not, were I in your place, do this to any great extent. Work a few trees this way if you desire, but

GEORGE BEUOY MADE THE BIGGEST POULTRY WINNING PANAMA-PACIFIC EXPOSITION



WROTE "What's a Capon and Why"

The best information ever published on the subject. New 1915 (fourth edition) just out. Fifty illustrations from life. Barred Rock Capon in natural colors. List of sixty reliable Capon dealers, covering every section of the country. In fact it tells everything you will ever want to know about Capons. Tells about the best tools and where to get them for the least money. Regular 50 cent copy, prepaid to your address for a DIME in coin or stamps.

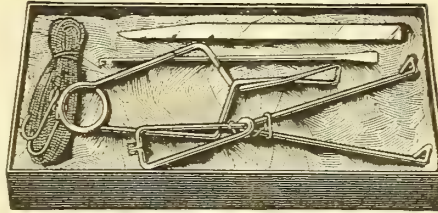


"THE MAN"

Which Shall It Be, 20c Rooster or \$2.00 Capon?

Let me explain how to do it. I have this information all illustrated and printed in a nice little circular that I will be glad to send you free of cost. Send me your name and address plainly written and I will send it to you by return mail.

"THE TOOLS"



HIGHEST GOLD AWARD, "WORLDS FAIR" PANAMA-PACIFIC

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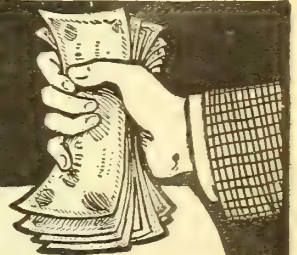
THIS IS THE Automatic Safe Set No. 10 Sent Postpaid for \$3.50

Exactly like Mr. Beuoy uses himself. Guaranteed to satisfy you or your money back. Order direct from this advertisement and a copy of the above mentioned book will be sent free.

GEORGE BEUOY, R. R. No. 7 CEDAR VALE, KANS.



Which Will You Have Lice or Profits



There are 30 different kinds of lice that infest Poultry and every one of the tribe helps to rob you of your Profits. When once they get a good foothold they make the poultry business look sick. If you want profits, you cannot tolerate lice and must get rid of them. A hint to the wise is sufficient—Get right after them—Use the remedy that has been for

30 YEARS THE UNIVERSAL FAVORITE

The Old Reliable

Lambert's Death to Lice Powder

and your lice troubles will be no more. Its effect is immediate and it will not injure eggs, hens or chicks, nor soil the finest plumage. It is just the thing for sitters, to make them sit comfortably. It is also invaluable for destroying lice on Horses, Cattle, Sheep and Swine.

PRICES

100 oz.	\$1.00
48 oz.	.50
15 oz.	.25
Sample, 5 oz. size	.10

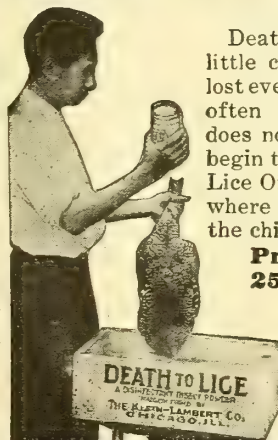
If not at your Dealer or Druggist's send direct.

"Secrets of Success with Poultry" by D. J. Lambert mailed for 2-cent stamp.

THE KLEIN-LAMBERT CO.

601 Traders Bldg.

Chicago, Ill.



Death to Lice Ointment kills head lice on little chicks. Thousands of baby chicks are lost every year from this cause (the lice being often mistaken for pin feathers). It does not pay to wait until the chicks begin to droop and die when Death to Lice Ointment will kill the lice just where they are without injury to the chicks.

Price 10 cts. and 25 cts. per box.

Fill Out and Mail This Coupon Today

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Send me your Booklet containing "Secrets of Success with Poultry" by D. J. Lambert

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A Real Necessity About Poultry Yards
and Buildings.
INEXPENSIVE. EFFICIENT. UNIFORM.
EASY TO USE.

KRESO DIP No. 1

will put an end to LICE and MITES;
stop loss from contagious disease;
CLEANSE, PURIFY AND DEODORIZE.

One Gallon
Makes 100 Gallons

of disinfectant solution ready for immediate use.

Spray or sprinkle it about the poultry buildings and runs. Put a little in the drinking water. Dip the birds if they are badly infested with lice.

This is the best possible means of insuring the health and thrift of your flock.

Make all live stock quarters sanitary by using it to prevent contagious diseases.

Scientific tests on live hogs prove that a 2½% dilution of KRESO DIP NO. 1 will kill the most virulent HOG CHOLERA VIRUS in 5 minutes by contact.

Write for free booklets telling how to prevent common animal diseases.

Buy Kreso Dip No. 1 in original packages from your druggist.

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Poultrymen Get This Book FREE!

Written by dealers. Backed by affidavit. They tell the real reasons why they sell and recommend Buckeye Incubators. They give you the "inside story" of the incubator business—tell you how they pick a hatcher.

This book tells you in an honest, straightforward way just how to avoid future disappointment and loss when buying an incubator. Full of incubator facts interesting to every breeder. Tells why the famous



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The Best Incubator Made

is sold on 40 days' trial and under guarantee to hatch every hatchable egg. Over 2,000 dealers and half a million users. Try the Buckeye in the same room with any other machine and if it doesn't hatch more and better chicks, we'll take it back.

Standard Colony Brooder

Guaranteed superior to any other brooder regardless of price. Coal burning—24 hours at one filling. Its 62-inch hover broods 100 to 1500 chicks. Thirty days' trial—write your own guarantee.

Ask Your Dealer or write for our book "Verdict of the User" sent FREE.

THE BUCKEYE INCUBATOR CO.

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Springfield, O.



\$16

no more. You can successfully raise the Wealthy and McIntosh Red. They are high quality apples and always bring a big price. If you will devote all your attention to these two excellent varieties and not try to raise kinds which nature has made it impossible for you to grow, you will find pleasure and profit in your orcharding.

* * *

At this time the Dunlap, Haviland, Sample and Brandywine strawberries promise to be our best crop, as they have been for these fifteen years.

* * *

I am glad that Dr. Woods has added Langshans to the poultry department of The Anchorage Farm. It is pleasing to see the way this grand good fowl is coming back. I bred them for several years, then was without them until two years ago, when I put in a pen. I find them to be splendid layers of large brown eggs. And as roasters, they are simply the best ever. Wonder why some people who are so fond of turkey will denounce the Langshan because of the color of the skin of the carcass?

* * *

It is evident that gooseberries can be too large to meet the approval of the housewives who buy the fruit. For two years I have found that a large majority of my customers do not want the Portage. This is a remarkably large gooseberry. The customers who have never tried them hold that they must be inferior in quality to the smaller Downing and Houghton and Oregon Champion. In this they are mistaken, but I do not press the matter. I found out long ago that it is best to give people what they want.

* * *

We had the finest asparagus this year that we ever had. The bed was getting old and last season when we quit cutting I had the bed covered to the depth of more than a foot with stable manure. Then on top of this I scattered a goodly supply of hen manure. The way those plants did grow and the crop they produced this season was marvelous. Shall keep the bed thus mulched in the future. Think this a good way to renew an old bed. This mulching will save work in weeding, too.

* * *

For the first time in years the cut worms have done no particular damage in my garden. Since I began plowing the garden in the fall, I have seen an annual decline in the damage done by cut worms. The turning up of the ground in the fall—I plow as late in the fall as possible—seems to kill off the worms.

* * *

As I write these lines I stop occasionally to listen to the chatter of a pair of robins that are building a nest in an oak tree just beyond the bay window of my study. The female has but one foot. I first noticed this four years ago. Each year this pair has built their nest in this same tree and every spring I look for

Grow your own Vegetables

Cut down living expenses. Easy to save time, labor and money by using

Planet Jr Garden Tools

This No. 4 Planet Jr combined Hill and Drill Sander, Wheel Hoe, Cultivator, and Flow includes practically every tool needed to plant and cultivate a large or small garden. Can be used by man, woman, or boy. Costs little. Lasts a lifetime. New 72-page Catalog (184 illustrations) free. Write postal for it.

S. L. ALLEN & CO.
Box 11077 Philadelphia



Try This Plan of Feeding Poultry

You will be surprised at the increased egg yield it will produce.

In the Morning To each 100 hens feed 5 or 6 quarts of Schumacher Scratch Grains scattered in litter that is 1-ft. deep.

At Noon Give them 3 or 4 quarts of Sprouted Oats (dry) and keep Schumacher Mash Feed in the hopper all the time.

At Night Give them 10 to 12 quarts of Schumacher Scratch Grains. Don't let them go to roost hungry. Keep this plan up regularly for 30 days, giving attention to housing, range, etc., and you will find a very marked increase in egg production.

SCHUMACHER SCRATCH GRAINS

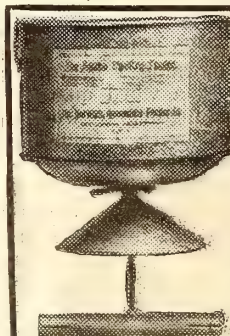
is a scientific combination of selected cereals which our feed experts have found by analysis and long experience form the most perfect combination for egg production. The feeding plan suggested here will make big profits for you. Try it. Get a sack of Schumacher Scratch Grains from your dealer. If he can't supply you, write to us.



The Quaker Oats Co.
Address Chicago, U. S. A.

Schumacher Chick Feed (containing Oatmeal) is just the feed to insure big, fast, healthy growth and early maturity.

(15)



The famous APACO FEEDER

Price only \$1.00
Guaranteed

Catalog of valuable poultry appliances FREE on request.

THE NORWICH AUTOMATIC FEEDER CO.
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Hatch Chicks the Modern Way

Hatch 'em by electricity.

Absolute control of heat and moisture. All metal, odorless and sanitary.

Insure a strong chick from every hatchable egg. Use

LO-GLO

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Let us explain how and why—write today for free Booklet J.

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FREE HELPS for Poultrymen

More eggs—better chicks—healthy poultry—more profit. Get personal advice from experts at the **PRATT EXPERIMENT STATION**

and FREE poultry books—Write Service Dept. at **PRATT FOOD CO., Philadelphia, Pa.**

S. C. WHITE LEGHORNS ONLY. The World's Official Record Laying Strains of America, England, Australia and New Zealand. Egg and Chick Circular, 25 Lay. Cont. Reports and the most practical catalog written. "Utility Facts" Free. **J. B. PARKS.** Box P ALTOONA, PA.

the coming of this cheerful little lady and her husband. The berry bush crop and the cherries bring a large number of birds to our place and while they consume considerable fruit, I do not complain. I would not be without them. Here on our place are nests of robins, brown thrush, woodpeckers, blue jays, blue birds, wrens, turtle doves, grouse, beak and several others. I tell you, we have here rendered the finest music the world produces. And these songsters destroy a vast amount of worms and insects which would be harmful to fruits and other crops. So you see I would be an ingrate if I begrudged these happy, useful birds a little fruit.

I have spoken before of how some three years ago I top-worked a Haas apple tree with Wealthy scions. Today the Wealthy scions are good branches and will this season give me a nice lot of apples. It shows how easy it is to top-work an apple tree over to a desirable variety and how soon we can thus get the superior fruit. If you have a worthless apple tree on your place do not cut it down. Top-work it to some variety you are especially fond of and you will soon be thanking me for giving you this advice.

I notice that in about all the nursery catalogs I receive the statement is made that the St. Regis red raspberry is a poor plant maker, hence the high price charged for plants of this variety by the nurserymen. I don't believe it. Mine made so many plants last season that they got away from me and this patch was a bad looking one. Early this spring I grubbed out young plants by the hundreds. Now I have to do the same thing again. I find them to be the most troublesome of all red raspberries in sending out new plants.

Do not hesitate to thin out many of the apples and peaches. I know it takes courage to take off at least half of the fruit from a tree, but if the tree is too heavily laden with fruit, it should be done. I am willing to admit that when it is necessary to do this work on our place I let the helper do the thinning!

Some one must be promoting a scheme to unload gladioli bulbs on a large scale. I am in receipt of a number of letters from people who say they are thinking of going into the raising of these flowers and expect to make much money. I think all such persons will find that they will not be able to sell their flowers in any large quantities at paying prices. Better leave this branch of gardening to the specialists who are located right to dispose of the flowers on contract.

It means much work in the garden and orchard from now on until winter sets in. But it is not all work by any means, this caring for the growing things. I just love it and could not rest in idleness and see "the other fellow" do the work. So I am counting on a lot of fun out in the open this season as usual.

Chicks 7 Cts. Each

Hatched from Free Range Stock

50 Poultrymen Raise Eggs for Us, for which we pay a fancy price. These poultrymen are special breeders of certain varieties—they take extra good care of their birds and allow us to inspect their flocks and reject birds that are not up to the top-notch. That is the big reason WHY 20th Century Chicks always are strong and healthy and grow fast into money-makers.

Our Ironclad Guarantee—every chick we ship is guaranteed true to name, full count as ordered, and of a certain standard high grade just as represented. We deliver them boxed in perfect condition at our express offices and always put in more than ordered—this guarantees you against loss.

Barred Plym. Rocks and S.C.W. Leghorns

OUR SPECIALTY

	Per 25	Per 50	Per 100
S. C. Brown Leghorns	\$2.00	\$3.75	\$ 7.00
S. C. W. Leghorns	2.25	4.25	8.00
Barred Plym. Rocks	2.75	5.50	10.00
R. C. R. I. Reds	2.75	5.50	10.00
Broiler Chicks	2.00	3.50	6.75

Send Order Today with certified check or money order—our large capacity of 70,000 chicks per hatch—15 years experience—plus healthy chicks, insures you against loss and we always ship at once.

Write for our Handsome Free Catalog.

20th Century Hatchery

(Formerly Chatfield, Ohio)

Box 3 New Washington, Ohio



Hatch "EGG BASKET" Strain NOW

Great
Reduction
Now!

—in June and July. This strain of S. C. Buff Leghorns matures quickly—some lay at 4½ and many at 5 months. Save feed and get quick profits. Hatched in July, lay in December. 1st Pullet at Chicago hatched June 20th. Early Leghorns moult when mine are winning and laying. Take this tip from a breeder whose stock won championship at Chicago; club special on shape at World's Fair, made records of 211-230, and outland all Leghorns in Winter at official egg contests. Full reductions on guaranteed eggs, chicks and stock. Baby chicks every week.

DR. L. E. HEASLEY - Box A - HOLLAND, MICH.



June Leghorn Chicks

from our early fatturing, vigorous, bred-to-lay strain of S. C. Whites will make winter layers. We have no other breeds, all chicks are from mature hens on free range and we can make prompt shipment. Give us a trial before ordering elsewhere. Catalog free.

Chicks—\$2.50 per 25, \$9.00 per 100, \$85.00 per 1000.

Eggs—\$4.00 per 100, \$35.00 per 1000, fully guaranteed.

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Greatest winners at Madison Square Garden, New York, and Chicago Coliseum.

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Prize Winners, Unexcelled Egg Producers, Special Prices This Month. Hatching Eggs—males and females. Not a dissatisfied customer this or last season. Splendid reports as to fertility, hatches and stock. Special booklet free with order. Write for particulars. E. J. Harbin, Box A95, Riverside, Ill.

Half-Price—EGGS (R. C. REDS) STOCK—Half-Price

Our Summer Sale of breeding stock begins June 1st. Some grand birds in this offering, bred in the same lines as our winners. They go at ½ their actual value. An opportunity will you take advantage of it? Write for sale list and liberal guarantee. Eggs now ½ price. LONGFIELD POULTRY FARM Box 321 BLUFFTON, IND.

ROSEDALE EGG FARM

White Leghorns, Barrow Strain, chicks and 6-weeks-old pullets, eggs and breeding stock.

CRITTENDEN & SON

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SMITH'S SINGLE COMB BUFF LEGHORNS

The largest breeder of Buffs in the world. I have no other breeds. Eggs ½ price in June, July and August. Fine breeders from best bred-to-lay stock as low as \$1.25 each in June and July.

F. S. SMITH

Box C and D

HAMILTON, OHIO

NEW BOOK FREE **BROWN POULTRY FENCE**

Costs half as much as netting, lasts 5 times as long. Get book of freight prepaid prices. Direct from factory. 150 styles of fence, gates and steel posts. Sample also free. Brown Fence & Wire Co., Dept. 3 Cleveland, O.

Readers Experience Department



Successful Back Lot Poultry Raising.

I AM BEGINNING my eleventh year as a breeder of White Leghorns and have found them so satisfactory in every way that I would like to give a little of my experience, which I trust will prove helpful to others.

Like many others, I began breeding poultry as a side line and it has continued a side line with me until last year. My first poultry house was a store box about three feet square, with one side open and a small run attached. This was in the back yard in town, in the spring of 1905. From the small flock thus housed I was getting more eggs than we needed for family use, there only being two of us, and the surplus was salted down for winter use. As my regular employment required about ten hours a day of my time, I did not give a great deal of attention to the poultry.

Three years later I moved to a place with a good sized back yard and contracted a severe attack of the chicken fever, from which I have never recovered. A genuine attack of this disease is, I believe, incurable. At any rate I could not see this nice space go to waste, so I put up a 10x10 ft. house and began to read up on the poultry business. I read everything I could get on the sub-

ject, with an unsatisfied appetite for more all the time.

The following year I built another house 10x25 ft., divided into three pens and stocked up with White Leghorns. I had been a constant reader of AMERICAN POULTRY JOURNAL for some time and purchased a Standard and spent a good deal of time reading up on my breed. In 1910 I made my first exhibit, entering a hen and a cockerel at Pittsburg, Pa., and winning fifth on hen. This capped the climax for me and I have not quite gotten over it yet. The winning of that fifth prize ribbon gave me about as much pleasure as anything I ever did in my life. I managed to learn quite a little at that show. In fact in that week at the show I learned more than I had at home during the five years I had been breeding poultry. It was my first poultry show, but I have not since that time missed going to at least one good show each year.

During the years that followed I raised a good many prize winning birds on the small space of my back yard. I put in a lot of hard work and many hours at night, as I had no other time, keeping about one hundred birds regularly and frequently ten to twenty-five extra male birds. Soon after showing the first time, I discovered that I was

not quite satisfied with the stock which I had previously thought fine, so I bought two sittings of eggs and some baby chicks of as good stock as I could afford to pay for. These turned out fine and put me on the right road and I regard that breeder as one of my best friends today. During the next few years I won at most of the shows in this section, including the Pittsburgh show each year. I mention this fact to show what can be done by a busy man in his spare time on a back lot. The fact that I have worked hard and earnestly should not be overlooked, but that makes the winning all the more interesting. The harder the battle to accomplish a worth while thing, the more glorious the victory. Without work we accomplish nothing. Things that come too easy very seldom amount to anything.

In mating, I value the male bird very highly, tho we cannot breed good chicks without good females. But I have made it a practice to keep as many extra males as possible, from ten to twenty-five, tho I only had room for seven or eight matings. I never sell a good male bird, unless I have his sire or some of his sons or daughters to breed from. I prefer small matings and all breeders must be strong and vigorous and typical of the breed.



Champion Gladstone Stock

S. C. Rhode Island Reds

Eggs for Hatching, 1916 Season

We have mated up our pens and have hatched many hundred chicks. We know what our average is, what kind of chicks we have hatched, and we assure you that you never saw better ones.

Our pens contain winners: 1st Cock at Madison Square Garden, 1915-16; 1st Cock at Boston, 1916; 2nd Boston Pullet, 1915; 1st London, Ont., Pullet, 1914; 2nd Buffalo Pullet, International Show, 1914; 3rd Cock and Color Special at Guelph, Ont., Canada, 1915; winner of \$100 Challenge Cup, Boston, 1916; and other lesser lights.

You can get a setting if you write quick. Our mating lists are free.

ROCK LEDGE FARM

SOUTHBORO, MASS.



LEST YOU FORGET

The 8th Annual Exhibition of the Great Mid-West Poultry and Pet Stock Association will be held

In the Coliseum Building, Chicago, Dec. 13, 14, 15, 16, 17, 18, 1916

Our Record: Seven of the greatest shows ever caged in America.

Premium list November 1st. Entries close November 25th. Don't fail to register for copy of list. Your name on a card will do.

THEO. HEWES, Secy., 25 West Washington Street, Indianapolis, Ind.

The great, big bargain sale of the year. Eggs, stock (even most of my own breeding birds)—all half price.

I guarantee complete satisfaction or your money back. If you want something at half price, write today.

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HALF PRICE

SALE

ARISTOCRAT BARRED ROCKS

Box A, Fort Wayne, Ind.

For the past three years I have made a profit of \$200 and over above all expenses, excepting labor. As the work was all done in my spare time and I have greatly enjoyed it, I feel that the profit may be counted in more ways than one. I have no ten thousand dollar specimens or world wonder records, but my little back yard plant has more than repaid me many times with pleasure I have derived from the work. I am now giving my favorites all my time, having given up my other work last year. I have a nice little farm of twenty-four acres which I intend to devote exclusively to poultry raising, and make it my life work.

Sharpsburg, Pa. J. H. LEFFLER.

Producing and Preparing 1915 Exhibits.

Early in the year of 1914 I began to think that a small pen of chickens would be profitable. Accordingly I sent for a number of catalogs and mating lists. A Pennsylvania man sent me a catalog of over fifty varieties of land and water fowl. I straightway "fell in love" with the Silver Wyandotte and ordered a setting of eggs. Allow me to state that raising chickens was no new adventure for me, as I always was chicken boy at home, not so many years ago.

I hatched eight chicks. Not one grew to maturity, owing to low vitality. I was not financially able to invest a great deal, so decided to bide my time until the next year.

During the summer, I purchased a fine open-faced Silver Wyandotte hen, good in all ways except the comb, which was somewhat too smooth. In January of 1915 I bought from a prominent Ohio breeder an excellent line-bred cockerel and mated him with this hen. Perhaps, my reader, you are saying "What a foolish waste of time crossing two strains." I did it with my eyes open, however, and was sure that the birds had the necessary qualities which go to produce the right kind of offspring. When I had saved eleven eggs (one almost every day), I placed them under a motherly hen January 26, 1915. Four or five days later I found that the hen had cracked the shell of one of the eggs, but a test showed a live germ; I put court plaster over the fracture, placed the egg in my incubator and hatched a strong chick. The hen, glory be! hatched the other ten. They were the kind that live and grow.

These chicks with the hen were placed in an open front coop two and one-half by six feet raised about two feet above the ground. The hen was fastened in one end by means of a slat partition. Fine chaff was spread over the floor to the depth of four inches and, after the first few feedings of boiled egg and stale bread crumbs, the best quality of commercial chick food that I could buy was sprinkled in the chaff. Bran and meat scrap were given them at end of one week; also green food was supplied in the form of finely chopped grass, lettuce or sprouted oats. Charcoal was fed occasionally and grit and shell given

The Uhl Hatchery

Largest Baby Chick Hatchery in America ABOUT 40,000 CHICKS PER WEEK—Our Sixteenth Season



If you want the best there is in Baby Chicks, for show or utility, we can supply you at the most reasonable prices—Barred, White and Buff Rocks; Rose and Single Comb Reds; White, Silver and Buff Wyandottes; Buff and White Orpingtons; S. C. and R. C. White Leghorns; S. C. and R. C. Brown Leghorns; S. C. Buff Leghorns; Mottled Anconas; S. C. Black Minorcas; W. F. Black Spanish, and Light Brahmas

A SATISFIED CUSTOMER.

M. Uhl & Co.—From the 50 baby chicks bought from you I won seven prizes and a handsome silver loving cup for best display on an entry of thirteen of your birds; 2nd and 3rd cockerel; 2nd, 3rd and 4th pullets; cockerel 2nd pen, and four pullets 3rd pen. I am highly pleased to recommend your concern for this high quality and the fairness shown me. Respectfully yours.

P. M. GRIFFIN, 610 Poplar St., Ft. Wayne, Ind.

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M. UHL & COMPANY, New Washington, Ohio

BABY CHICKS and EGGS for 1916

AT LIVE AND LET LIVE PRICES

Bred-to-Lay S. C. White Leghorns Exclusively

Eggs before May 1st, \$3.00 per 15; \$12.00 per 100; \$50.00 per 500. Day-old Chicks, April hatch, 15c each; May hatch, 13c each; June hatch, 10c each. Place your order early.

H. S. HARTZMAN, 1125 13th Avenue, MOLINE, ILL.

Golden CAMPINES Silver

PANAMA-PACIFIC WINNERS FOR SALE AT REASONABLE PRICES
GENSEMER BROS., 161 Main St., CRESTON, OHIO

"America's Best" Light Brahmas

Eggs one-half price after May first, or \$5 for 15.

BALCH & BROWN - - - - - MANCHESTER, CONN.

BARGAIN SALE of WYANDOTTES, in Silver, Golden and White

I offer several hundred head of fine birds out of my matings at less than half price, either show birds or fine stock birds. Eggs now \$1.50 and \$2.50 per setting. Golden Sebright eggs at \$3.00 setting. Large circular. IRA C. KELLER Brookside Farm Box 75, PROSPECT, OHIO

White Wyandotte Farms

are now disposing of some very choice breeders and also selling strong fertile eggs at reduced prices. Send for mating list. OSCAR L. BOCK, COUNCIL BLUFFS, IOWA

White Wyandottes—Regal Strain

Eggs from State Show winners \$1.50 setting. White Leghorns, Young and McKinzie strain, \$1.50 setting.

GEO. P. SANFORD State Road WHEATON, ILL.

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Cleveland Winners. Stock, also Eggs for hatching. Circular free.
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The Baby Food for Chicks

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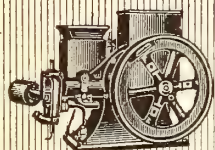
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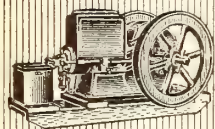
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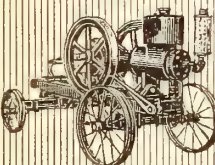
Save \$10.00 Per Horse Power



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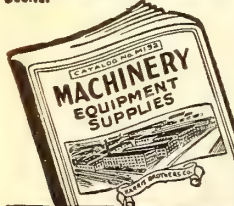
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on the Worlds Best Gasoline Engines. We have just purchased the enormous stocks of brand new gasoline engines of the Rumely Products Co. and the Walter A. Wood Mowing and Reaping Machine Co. Big cash purchases of these famous engines and our quick sales methods mean that you get one of the best new engines on the market at prices that are literally "Smashed to Smithereens." Why buy a poorly made, light unreliable engine, when you get the World's best at less cost. Just look at these wonderful values, taken from our Gasoline Engine Bargain List:

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Our stock includes every size and kind of engine:—stationary, portable and direct-connected to pumps, saw rigs, hoists, compressors, electric light plants, etc. All our engines are brand new and in perfect condition. They are engines of nation-wide reputation. Made by big, reliable manufacturers.

Repairs for any Engine can be Continuously Secured

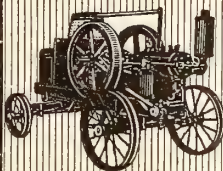
In our purchase from these great manufacturers who are discontinuing their lighter lines, we also secured a great quantity of brand new PUMP JACKS, CREAM SEPARATORS, ENSILAGE CUTTERS, HAY BALERS, ELECTRIC LIGHT PLANTS and other farm machinery of various kinds. This is the greatest sale of Gasoline Engines and Farm machinery ever advertised. Keen buyers know what to do! Act quick.

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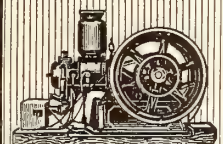
Send us the coupon below or write a letter. Ask for our new Gasoline Engine Bargain List! Tell us what style and size of engine you want—what it is to be used for. Our engineers will give you reliable and expert advice on any engine or machinery without charge.

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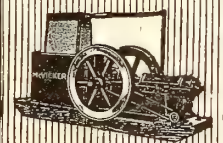
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Also send me free of charge the books marked X.

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Name.....

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"Premier" Partridge Wyandotte Babies

60 cents each in lots of ten or more. May and June are the best months in which to obtain your start with these winners. All danger of chilling now over. Eggs for hatching \$5.00 for 15. Valuable catalog free. Mention American Poultry Journal.

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H. B. Hark, Mgr. Poultry Dept.

GLENDAL, OHIO

S. and R. C. White Minorcas — Golden Campines

America's champions. Eggs half price. Now is your chance. \$5, \$2.50 and \$1.50 per 15. Order direct. THOMAS BROGDEN, Specialty Breeder Box C RUSH LAKE, WISCONSIN

SPANGLED WYANDOTTES

Stock and Eggs half price.

L. COOK, Originator, OAKVILLE, IOWA

CHAMPION BARRED ROCKS

Leading winners at Philadelphia, Chicago, Allentown, Hagerstown and other shows.

C. GUY MYERS

SIDDONSBURG, PA.

as a matter of course. As soon as the ground warmed sufficiently they were permitted to run out, but only in a back yard, for I live in a city whose population numbers about thirty thousand. I spaded my runs and planted sun flowers for shade.

When the chicks were about ten weeks old some enterprising youngsters who liked to see them eat, fed them a bunch of tough grass and I lost all my cockerels but one, and lost one pullet from their becoming crop-bound. I now had one cockerel and five pullets.

As they began to take on color and get their set there was no prettier picture than my yard of Silvers. Nice open centers and narrow black lacing were distinguishing marks of these birds.

As to the rations used during their growth to maturity, permit me to say that I used as much variety as possible. A mash with a small percentage of meat scrap was kept before them at all times, they got all the available table scraps, and grains fed in a deep litter of straw. These grains were for the most part commercial scratch grain, and at times a mixture of ten lbs. wheat, ten of cracked corn, and five of oats. This last was not fed until the birds were pretty well developed, as I do not like to feed oats in any quantity while my chickens are young. This does not mean pin-head or steel-cut oats which can be fed with safety to the small chick and are an excellent food.

My house was thoroly cleaned every week, and sprayed with a good disinfectant. Roosts were painted with coal oil and crude carbolic acid to keep down mites and lice, and the birds were also given a good dusting every now and then.

At the Kanawha County Fair held in October, 1915, I won first and second pullets, only having the two entries. At the meet of the Charleston Poultry Association, held January 10-15, 1916, I had entered seven Silvers and they were placed as follows: First cock and 1st hen—shape and color specials on each; 1st, 2nd, 3rd, 4th and 5th pullets. You will note that this last exhibit was in 1916, but the birds exhibited, excepting the first two, were raised and fitted for showing in 1915, so I feel that I am not getting beyond my subject.

A word in conclusion: My readers are either thinking that I "happened" to raise either the "best birds in the world" or that I had no competition. The last surmise is correct, but listen! Judge Keeler of Indiana placed the awards. Commenting on the birds he told me that my hen was worth \$20 and that the first pullet was as good as the hen. The remaining pullets were all of high quality and really there was but little difference between the first and fifth pullets.

It is not necessary that Silvers be washed for the show room, except the feet and legs, a damp cloth gently brushed over the plumage being sufficient unless the feathers have been badly soiled. E. N. WILLIAMSON. Charleston, W. Va.

Getting a Start with Poultry.

My husband was the "village smithy" and we thought we could add to the family income by keeping a few fowls. We finally decided that we would invest in the best to be secured, and as the ads mostly seemed to agree at that time that

White Orpingtons were the one best breed, we planned to attend the next local poultry show and get our birds.

Now, my hair has a tinge of auburn, and bright colors have always appealed to us, so it is not to be wondered over that the results were as they were.

When the show opened on a Monday morning, Will closed up his shop, and we went to view the fowls and make our final decision. Once inside the show room our fancy for brilliant colors got the better of the printed ads, and we found ourselves studying carefully the Rhode Island Reds,—they did have a brilliant color.

A little woman with blue eyes came up and tried to get us to subscribe for her magazine, but Will turned her down pretty cold. There was a man in the show, with a bright, strawberry roan beard, he too was selling something, and we decided that one look at him was all we needed. We got around by the beautiful Brown Leghorns, and they showed some wonderful colors too, but that strawberry roan beard was edging over that way, so we slipped back to the White Orpingtons, thinking the man would come in, and we would make our purchase and get out before the strawberry roan sold us something we did not want. Then, just before we got to the coops, the aisle was blocked, and someone said, rather cheerily, "Are you interested in chickens?" And there stood that diminutive imitation of a man! At close range the color of his beard was not so bad, it was what would have been called a pink, if he had been in the United States Senate instead of a poultry show. Of course, Will tried to turn him down, but failed, and then I don't

know just how it happened, but he showed us the White Orpingtons, and then the Reds, and then the Brown Leghorns. Why, say, what that man did not know about poultry,—any variety, had not happened yet, but, of course, we see now several places where he was only guessing, but it was all good for us. We asked all the conceivable questions and a good many others, yet he was right on deck with the correct answers, at least the answers looked to be correct, and it came time to close the show and we had not bought a chick or an egg.

Will said we would have to go again the next day: so we did, and the next one too, and talked to the man with the pink whiskers by the hour. Of course we subscribed for his magazine, and then the little blue eyed woman came around, and if that old scamp didn't introduce her as his wife!

Well, when Saturday night came we had learned more about poultry keeping than some of the experiment stations have learned yet, but we had not bought a bird or an egg. Now possibly the color of that pink beard had been too great an attraction; but he could paint a word picture so glowing that a rainbow would hide its face for shame; yes, he could gild the sunbeams, and use a bright summer day for a background; we liked brilliant colors, and he actually could paint a bright spot on a day on the Sahara.

Saturday night came and we had not yet made the purchase, it was almost closing time and the last night of the show. We asked the man with the beard to settle the question for us and he did, right there and then. We walked

out of that show room with a cockerel in one hand and a pullet in the other, but they were not White Orpingtons, neither was a single feather on those birds the color of the pink beard. Those birds were a handsome pair of greenish black, silken coated, *Black Langshans*. We have a fondness for bright colors, and that green-black is the brightest color we have ever seen, except the strawberry roan-pink of the beard.

We purchased a few more birds from other breeders, and sent back east to some of the well known exhibitors, and secured the very best we could find, paid good prices and raised a fine flock. When fall came, we asked the man with the pink beard to come out to see our flock, and while he was with us, he selected a string of fowls for us to send to the fair. If he did not go thru the whole flock and pick out the very birds we had from him, and told us "to rub the dust off with a dry cloth, and send them along."

Well we did, knowing too that he would be there exhibiting against us. Then when we got into the tent, at the fair grounds, we heard that the judge had been instructed to "set that fellow down so hard he would stay down," and we knew it was all over but the tears.

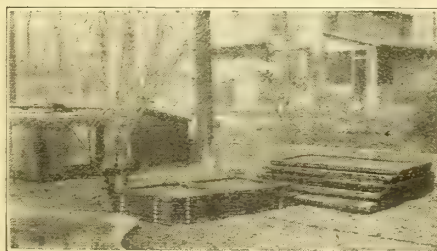
When the prizes were up we went down the aisle with a heavy heart, but the judge had "set him down" all right, pretty hard too, for there on our own coop was the blue ribbon. That man had bred the winners, selected them, let us raise them, and then he had shown birds that ours could beat, and we had won.

We have shown our birds a good many times since then in different shows

MULLER SECTIONAL Poultry Coop and Runway

Picture No. 1 shows the new Muller Sectional Poultry Coop and Runway, knocked down—the runway on the left and the coop on the right. It is easy to assemble in less than two minutes' time, without the aid of any tools. (Patent applied for.)

Picture No. 2 shows the same Coop and Runway set up. Note the galvanized rods passing through screw eyes, holding sections together.



No. 1

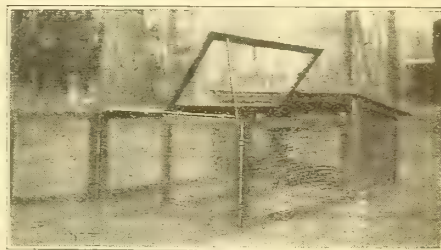


No. 2

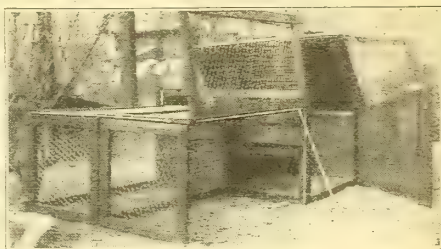
Picture No. 3 shows how rods may be drawn to open frames in any way desired. The entire frame work is sectional, with rod hinges, making it possible not only to open in any manner but to add to or subtract from your equipment at pleasure. All sections of runways are of one of two sizes—19x19 inches or 19x38 inches. All frames are interchangeable and reversible.

Picture No. 4 shows interior of Muller Sectional Coop. It is divided in center by removable partition, providing ample room for a brooder or setting coop for two hens. Coop is 39 inches wide, 24 inches deep, 25 inches high in the front and 18 inches high in the back. Each section of coop is provided with sliding door, which may be raised to any height.

The Muller Sectional System is a great improvement over present Brooder Coops and Runways. Sections are constructed of seasoned stock, treated with creosote. All fastenings are galvanized. Coops and Runways are so constructed as to be used either double or single, partitions being removable. Muller Sectional Coops and Runways are easy to clean, easy to move around and easy to take down and store away. Double Runways, complete with rods, etc., \$4.25; Coops, \$6.25. Shipped knocked down. Double Coop and Runway, \$10.00, F. O. B. Waukegan, Ill. Illustrated booklet free.



No. 3



No. 4

**Set Up or Take Down
in Two Minutes without Tools**

FRANKLYN R. MULLER & CO., Waukegan, Illinois

★Red Star Brand★



is the most satisfactory animal food for poultry. High in digestible protein and bone—sweet—clean—appetizing—free from oil—uniform—economical.

Makes Hens Lay

Used in the ration at all North American Laying Competitions where world's highest official laying records have been made.

Makes Chicks Grow

Furnishes the required muscle and bone-building materials in available form. The choice of America's most successful poultry growers.

Red Star Brand Fish Scrap is made from fresh cod and haddock and carries no oil. Be sure to get this brand. Beware of oily fish scrap which is good fertilizer but not fit for feeding. Red Star Brand is right in every respect and gives universal satisfaction.

Samples and Poultry Book FREE.

INTERNATIONAL GLUE CO.

12 T-Wharf

Boston, Mass.

Throw Pearl To Your Hens

Then watch results. There's no better grit—no better egg maker—no better health food for all poultry than

PEARL GRIT

It makes shells, makes eggs, makes feathers. It serves a double purpose. Send for prices and our new valuable poultry booklet.

THE OHIO MARBLE CO.,
10 S. Cleveland St., Lima, Ohio

Summer green food makes hens lay more eggs. You get more eggs per hen all winter by dissolving **SUCCULENTA TABLETS** in their drinking water. Better and cheaper than green food. No bother. 100 large tablets by mail 50c.

SUCCULENTA TABLETS
250 tablets \$1.00 postpaid.

THE SUCCULENTA CO.,
P. O. Box 405-1, Newark, N. J.

WRITE Your Name On a Postal

and get our 1916 Incubator Book FREE and postpaid. Shows why Prairie State Incubators "hatch most chicks that live." Contains chapter on Poultry Diseases, also one on hatching and rearing.

PRAIRIE STATE INCUBATOR CO.,
201 Main Street, Homer City, Pa.

1 Gallon Oil Put a gallon of oil in X-Ray Tank, light the lamp and the **X-RAY INCUBATOR** does the rest. Duplex central heating plant means no cold corners—every mild heat all the time. Send for free book 10c. Express prepaid to practically all points.

THE X-RAY INCUBATOR CO.,
Des Moines, Ia.
Box 11

Express Prepaid

Belle City Now 25 Times World's Champion Incubator

Get the story. My new Free book, money making "Hatching Facts," tells everything. Get all facts, profits, full particulars, money-back guarantee. My low price will lure you. Write today. Address Jim Rohan, Pres.

Belle City Incubator Co.,
Box 27
Racine, Wis.

Freight Prepaid. 1, 2 or 3 Months' Home Test

and have regularly won our share of the ribbons.

Our birds are bred solely for their handsome plumage, being the wife of the "village smithy," and having a substantial income, there is no need for me to devote my time to the utility end of the poultry business, and as we chose our breed solely on the fancy points of that strawberry roan-pink beard, and the beautiful pictures they could paint, we have had no occasion to alter our first decision.

That man could convince a blacksmith that every horseshoe was made of gold, and he did, and if we could start to change now, he might come back and sell us bantams, so we are contented.

We both have a fancy for bright colors, and black is usually thought to be a sombre hue, but the black of a Langshan, with its greenish sheen is like the changing colors of a piece of fine silk. No doubt this has helped to keep us contented with the choice, but it was the fine points, of that pink beard, and the wonderful word pictures that man could paint that made the selection for us. We simply decided to keep them, after he had sold them to us.

Far be it from my intention to drag in here any reference to the practical end of the work, but those hens do NOT, most positively do not lay two eggs every Sunday, they only do that on some special occasion, like Christmas, New Years and the Fourth of July, or when some member of the family has a birthday, but, of course, all really good Langshans lay two eggs on the 16th day of May, for that is the birthday of the patron saint of the breed, and they have to then, even if they are broody.

They have given us many a fine breakfast, and they furnish some handsome ten-pound roasts, but their really true value lies in the fact that they have proved themselves to be perfectly satisfactory and we have never regretted our choice. And this leads me to remark that if you select a breed that proves to be all around satisfactory to you, you can and will make a success with it.

Spokane, Wash. MRS. A. B. HUNTER.

Likes the Barred Rock.

Fourteen years ago I took up the breeding of poultry and after seven years experience with different varieties and colors in those varieties, I purchased a pen of Barred Plymouth Rocks, and with the sole idea in mind to breed them from a fancier's standpoint. There are certain requirements that any breed must possess to be considered a fancier's fowl. Type alone will not suffice, neither will color, nor will the two be sufficient to substantiate their worth. There is still another quality they must have and that is the necessary foundation of blood lines in the beginning to produce specimens that show breed characteristics in type and color, and backed up with a proper amount of sturdiness and vigor.

There has always been an idea prevalent among fanciers that the Barred Plymouth Rock is a hard bird to breed to standard requirements and that is one reason that I took them up, as I

The third sex in the chicken yard

Hens for eggs.
Cocks for larger flocks.
Capon for double-size birds and bigger profits from same feed.

No farmer or poultry raiser can claim to be making the most of his opportunities unless he caponizes a large proportion of his young cockerels. With

PILLING' CAPON TOOLS



anyone can turn young cockerels into capons. Cheaper and easier to raise, need less care; same amount of feed required for 5 lb. cockerel produces 10 lb. capon, selling for 30c per pound when roosters bring only 15c.

Complete set of reliable, practical Pilling Caponizing Tools, with full instructions, sent postpaid for **\$2.50**

Write today for free Capon Book

G. P. PILLING & SON CO.,

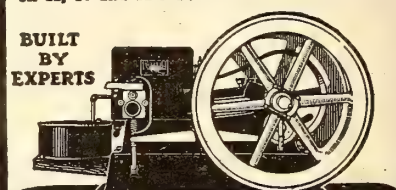
23d & ARCH ST., PHILADELPHIA, PA.

Make money caponizing!

DOWN AGAIN!

GO WITTE PRICES

2 H-P, \$29.95; 3 H-P, \$47.85; 4 H-P, \$64.75;
6 H-P, \$89.90; 8 H-P, \$129.80. Write for prices on 12, 16 and 22 H-P.



You can't buy so good an engine at the same price. You can't buy a better engine at double the price. Lower fuel expense. Simple in construction. Easily started. 30 to 50 per cent surplus power. 90 day trial offer. Sold direct, factory to user. Established 1870.

Write for free book, "How to Judge Engines," and for price list of all sizes and styles, Kerosene, Gasoline, Distillate, Naphtha and Gas.

ED. H. WITTE, WITTE ENGINE WORKS,
3038 Oakland Avenue, Kansas City, Mo.
3038 Empire Bldg., Pittsburgh, Pa.

GOOD BODIES AND QUICK GROWTH

In broilers and pullets bring your early profits. Help your chicks build bone and muscle by putting a little

CONKEY'S POULTRY TONIC in their mash. 25c, 50c, Pail \$1.25.

CONKEY'S HEAD LICE OINTMENT.

LICE FIX, LICE POWDER and LICE LIQUID dispose of lice and mites and help birds grow. 10c, 35c, 50c.

CONKEY'S WHITE DIARRHEA REMEDY and **CONKEY'S GAPE REMEDY** both save chicks. 25c, 50c.

Always have **CONKEY'S ROUP REMEDY** ready. 25c, 50c.

THE G. E. CONKEY CO.,
1000 Conkey B'g., Cleveland, O.

WHAT HENS NEED

Feed **CRY-CO**, a purified shell grit, 99d Pure Carbonate of Lime. Hard, sharp and cubical, better than oyster shells, need no other grit. Better results, cost 1c per pound. Ask your dealer, write for booklet.

W. A. REUBEN & CO., ST. LOUIS, MO.

IDEAL ALUMINUM LEG BAND

To Mark Chickens CHEAPEST AND BEST
12 for 15c; 25-20c; 50-35c; 100-60c.
Sample Band Mailed for 2c Stamp.
Frank Myers, Mfr. Box 40, Freeport, Ill.

wanted to start with a breed that the things most desired would be hard to obtain, but when you succeeded in doing so, the satisfaction far outweighed the effort. Now, the type should be pleasing or all the beauty in color will be lost. The Rock type has just enough curves to make a handsome profile, enough length, breadth and depth to facilitate egg production and weighing qualities, which is certainly an asset to a fancier's fowl, for without these requirements they would fail in the power of reproducing a better progeny.

What is more handsome about a fowl than one or more color contrasts of the plumage of a bird taken as a whole or of an individual feather? We admit that a white fowl is handsome, as is a buff or a red, but they will not stand the sun nor rain like a Barred Rock and will fade to a much lighter shade in the Buffs and Reds before they molt and from the beauty of an individual feather there is no comparison. Then again the Barred Rock has an individuality in markings possessed by no other fowl. And when those colors are intensified by barring that runs straight across a well shaped feather evenly spaced in the



The above illustration shows how to remove lice from chickens by the use of Licecil vapors. Licecil is made by Metzger Mfg. Co., Box 35, Quincy, Ill.—Adv.

black and white bar and meeting the corresponding bar on the adjoining feather, so as to form that sharp ringy appearance, so pleasing to the eye, the effect is so decided that it appeals to the most exacting.

Now to get down to "brass tacks" on the beauty side, let us take a feather from a male or female. There is more to the color than just black and white and more to the barring than just bars. The black should be a soft shade, stopping short of positive black and the white a grayish white, not an absolute white. The barring should not be only straight across, but the feather should be barred from root to tip, and as many bars as is possible to get on it, with the tipping a black bar and the feathers inserted in the body, so that the specimen, when finished, has that rich, sharp, snappy, clean cut, ringy effect possessed by our "down to date" birds.

Just imagine a bird with 100 bars on the saddle hangers, and carrying same definition in color and barring all over and possessing a type that is ideal and the color of that beautiful blue shade.



100,000 "Better Hatched" CHICKS

At Reduced Prices in June

It has been our custom each June to include all Exhibition Quality Chicks with our select quality. This June will see more high class chicks from our plant than ever before. Order at the prices quoted below and receive some of our highest priced chicks in each lot. Satisfaction and safe arrival guaranteed. A hatch each Tuesday.

S. C. White Leghorns, Brown Leghorns, Buff Leghorns and Barred Plymouth Rocks, 25 for \$3.00, 50 for \$5.50, 100 for \$10.00, 500 for \$45.00, 1,000 for \$90.00.
White Plymouth Rocks, R. C. and S. C. Rhode Island Reds, 25 for \$3.50, 50 for \$6.50, 100 for \$12.50, 500 for \$55.00.

S. C. Black Minorcas, White Wyandottes, White and Buff Orpingtons, 25 for \$4.00, 50 for \$7.50, 100 for \$14.00, 500 for \$65.00.

Odd Lots—Leghorns and Minorcas, \$8.00 per 100.

Odd Lots—Heavy varieties, \$10.00 per 100.

Send money order in full for prompt shipment. You take no risk. We have shipped over a million chicks, with no dissatisfied customers.

CO-OPERATIVE BREEDING & HATCHING CO., Dept, A, TIRO, OHIO

CHICKENS BIG AS TURKEYS BY FEEDING

"OCULUM," the CELEBRATED NEW DISCOVERY, which makes 11-lb. roosters, 9-lb. hens and often doubles egg yield. If you doubt it, ask its users.

F. B. Hood, Somerset, Mass., raised an 11-lb. R. I. Red cockerel; H. Castleman, Jamestown, N. Y., a 9-lb. Leghorn rooster, and Henry Adams, Salem, Va., 9-lb. Rock hens with "OCULUM." C. E. Cornell, Tacoma, Wash., doubled his EGG YIELD and Geo. Sisco, Mountain View, N. J., increased his eggs from 30 to 398 a day WITH "OCULUM." Trial bottle (240 Feeds) 10c. Doubts pay no dividends—Get it NOW.

H. I. COMPANY, Inc. - Box B - SALEM, VIRGINIA

Atsatt's Chick Feeders and Fountains



The practical CHICK Feeder. Easy to clean and fill. Made of galvanized iron, size 10x4 inches. One trial will convince you. Price, 25c each, or mailed for 32c, 3 postpaid, 90c.

Our Chick Fountain does not wet or drown the chicks. Size, 1 quart fits any brooder. Four places to drink. Galvanized iron. Price, 25c each. One mailed for 32c; 3 postpaid, for 90c.



Ask your dealer or send for our new catalog. ATSAIT BROS., 27 Pearl St., Mattapoisett, Mass.

Mapleside Bred-To-Lay



Barred Plymouth Rocks

ACKNOWLEDGE NO SUPERIORS AS LAYERS

Eggs for hatching, 10c each. \$4.00 per 50. \$7.50 per 100. Circular of facts free.

O. F. MITTENDORFF Box F LINCOLN, ILL.

Morris White Orpingtons

Winings at Madison Square Garden, New York, 1916: 1st Cock, 2d Cockerel, 1st and 4th Hen, 1st and 4th Pullet. Our 1st Pullet won cup offered for *Best Orpington hatched in 1916*. If you want *Quality White Orpingtons*, write us. Mating list ready.

THE MORRIS POULTRY FARM

LEBANON, OHIO

The F. & H. BLUE PLYMOUTH ROCKS

—THE FOWL FOR EVERYBODY—

EGGS HALF-PRICE NOW. Few selected breeders for sale at reduced prices. List free.

Fishel & Hasselman 34th and Central Ave. Indianapolis, Ind.

Special Sale for June of TRAP-NESTED S. C. WHITE LEGHORNS

Fine breeders, one and two years old, from high record pens, at one-half catalog prices. Also half prices on Hatching Eggs and Chicks. Write at once and get first chance. Our Hens with records of 150 and up, at \$1.00 each. We have lots of 1,000.

LILY WHITE POULTRY FARM J. F. BEST, MGR. SAGINAW, MICH.

Barred Plymouth Rocks Birds at Reduced Prices—Eggs 1/2 Price during remainder of season. All from birds that have won for us during 1914, 1915 and 1916.

at both Indianapolis and Chicago—a First Cockerel two years in succession.

W. H. GODDARD & SONS Orchard Place RIVERSIDE, MUNCIE, IND.

S. C. WHITE LEGHORNS—Foundation Stock

Now is the time to get your breeding stock. One thousand yearling hens for sale.

MEADOW LARK FARM J. W. TAFT, Proprietor R. F. D. No. 3 ELGIN, ILLINOIS

DIAMOND CORN GLUTEN MEAL



FOR a profitable egg yield, hens must have more protein than straight corn or grain can supply. You want an *available protein* and a *low-priced protein*.

Protein from corn—a natural poultry-food source—is far more digestible, hence more available for hens than the protein in beef or packing-house scraps—also it costs much less.

Diamond Corn Gluten Meal is the most concentrated and lowest priced corn-protein on the market. Guaranteed 40% protein, 1.5% fat, 4% fibre.

This is the reason that Diamond Corn Gluten Meal is the chief ingredient in the feeding formulas used by successful poultry men.

Mix Diamond Corn Gluten Meal with your low protein starchy grains for a month. Watch your egg yield and be convinced.

Write us for feeding formulas.

If your dealer does not carry Diamond Corn Gluten Meal write us and we will instruct you where to get it.

CORN PRODUCTS REFINING CO.

Feed Dept.

New York
Chicago



Orchard Farm Reds

Before buying R. I. Red eggs for hatching, write for our mating list.

Orchard Farm, Noroton Heights, Conn.



ATHERTON'S FAMOUS SILKIES

The REAL Birds

EGGS \$6.00 per setting; two settings, \$10.00.

Single Birds, \$5.00 to \$25.00

W. B. ATHERTON
Randolph - Massachusetts

White Cornish

MOUNTVILLE FARMS. - MOUNTVILLE, VA.

(See classified ad on another page)

Such a bird has a right to be one of the "Grand Old Breed." There are other varieties that have a black and white plumage, but they do not have to get so many markings, bars or pencilings or lacings on one feather. But still we have other things to consider in a fowl for the fancier. The popularity of the breed. The best barometer on a breed's popularity is the number at the shows each year, and it is an assured fact that there are more Rocks (Barred, I mean) shown in the United States today than of any other breed or variety. Then, again, the commercial side of a fancier's bird is of great benefit to the breed. There is no fowl today that will command a better price, whether the specimen be of ordinary or superior quality than a Barred Plymouth Rock and there has been some of the greatest successes in poultrydom made with the Barred Rock.

There are thousands of fanciers in the country breeding this fowl and still there is always a scarcity of stock every year. Today we find fewer judges competent to pass on them than upon any other breed or variety, and why? Because they are a life's study for the greatest master. As a final summary for this "Grand Old Breed" it will repay you in pleasure and profit just to the amount of "gray matter" and effort you put in the breeding of them. A type that is neither too long nor too short, too high nor too low, with a nice, neat head, a fiery red eye, and that sharp, snappy, ringy narrow barring, evenly spaced, running from root to tip, possessing the proper contrast of color to obtain that rich even blue shade, and the whole intensified by a firm, well set, five-point comb and a rich yellow beak and shanks. To me this is the "Last word in a fancier's fowl."

Sandwich, Ill. S. N. TREMPER.

AMERICAN POULTRY ASSOCIATION

Annual Election, A. D. 1916.

Results as shown by the report of the Election Commissioner:

President... E. E. Richards, Cedar Rapids, Ia.
Vice-President... A. A. Peters, Denver, Colo.
Secretary... S. T. Campbell, Mansfield, Ohio

MEMBERS OF EXECUTIVE BOARD.

District No. 2—
Mrs. Florence Forbes, New Decatur, Ala.
District No. 5—
L. C. Byce, Petaluma, Cal.
District No. 6—
John S. Martin, Port Dover, Canada.

PLACE OF HOLDING FORTY-FIRST ANNUAL MEETING.

Cleveland, Ohio.

COMPLETE RETURNS.

President—
E. E. Richards, Cedar Rapids, Iowa....2096
Vice-President—
A. A. Peters, Denver, Colo.....2055
Secretary—
S. T. Campbell, Mansfield, Ohio.....2122

MEMBERS OF EXECUTIVE BOARD.

District No. 2—
Mrs. Florence Forbes, New Decatur, Ala. 752
Thomas Poole, Atlanta, Ga..... 620
C. P. Van Winkle..... 596
District No. 5—
L. C. Byce, Petaluma, Cal..... 888
H. H. Collier, Tacoma, Wash..... 723
J. D. Veach, Hubbard, Mont..... 373

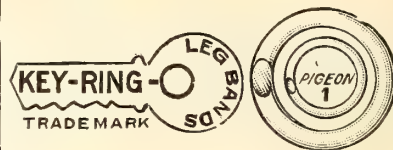
District No. 6—
W. M. Coates, Vancouver, B. C..... 759
John S. Martin, Port Dover, Canada...1180

Place of Holding Forty-First Annual Meeting—
Cleveland, Ohio.....1102
Detroit, Michigan..... 688

O. L. McCORD, Election Commissioner,
823-827 Jefferson Bldg., Peoria, Ill.
May 1st, 1916.

Key-Ring-O

is the leg band that is favored by almost every State College—



You, too, can make your chickens more profitable if you keep pen records and adopt

KEY-RING-O LEG BANDS

With their use you easily discard your unproductive stock. Properly care for your more valuable birds.

Key-Ring-O's are simple, efficient, economical; very light, last a life time. Easily put on like a key ring. Stay until removed and cannot hurt the bird.

Ten colors: Black, White, Dark Blue, Light Blue, Pink, Red, Green, Yellow, Purple and Garnet.

Sizes: No. 1, Pigeon; No. 3, Baby Chick; No. 2, Medium for Mediterranean Breeds; No. 4, Large for American Breeds; No. 5, Bantam; No. 6, Extra large for Asiatic Breeds.

Send seven 2c stamps for fifteen, and get our circular "Increasing Poultry Profits." Write today, stating colors and sizes.

NEWELL & GORDINIER

Makers

Dept. 48 Troy, New York



SILVER and GOLDEN CAMPINES

The Egg and Money Makers

Eggs for hatching—that will hatch from the grandest birds that are properly mated for best results. Bulletin of facts free. My book "Campineology," de luxe and two-colored plates, 10c.

J. FRED N. KENNEDY
Box F Birch Cliff, Ont., Can.



Buff Cochins Bantams

The strain that won a reputation for us—will do the same for you.

15 Eggs \$3.50. Circular free.

MRS. ADELAIDE C. WAINRIGHT
Department J, RED BANK, N. J.

Newtown Equipment Leads

Giant Incubators, Coal-Burning Colony Brooders, Portable Poultry Buildings, Practical Trap Nests, Incubator Alarms

Write for FREE Catalog

Newtown Giant Incubator Corp'n
21 Warsaw St. Harrisonburg, Va.

Questions and Answers

Conducted by
Prince F. Woods, M. D.



Eggs Smell and Taste Queer.

Q. Will be grateful if you can throw a little light on a subject that has upset us considerably. We have many chickens and they are kept well in a large sunny place on our farm. We have always had the best eggs imaginable and our friends at week end house parties have raved over them. Lately, for some unknown reason the eggs have been queer—not really bad but just straight funny in smell. I had one boiled for breakfast this morning and—oh, well, I don't want another egg for a week. Please tell me what you think is wrong. What are we doing or what are we not doing?

Frontenac, Minn.

G. G.

A. There are many things that will "taste" eggs and give them a queer or bad flavor or odor. To say what is wrong without more information is difficult. The hens may have access to wild garlic on range. It is not unlikely that some strong smelling insecticide may have been used in the nests. The hens may be eating turnips, onions, or other strong flavored food. There may be a few hens that have "vent gleet" or an ill-smelling discharge from the vent and such hens are apt to infect the others and their eggs always have a bad odor. They can only be discovered by examination of the fowls. Any such birds should be removed from flock at once. Clean up the poultry house and be sure to whitewash nests, sun them well and use only new, bright, clean nesting material.

Do not use any medicated nest eggs. Bear in mind that eggs are as easily spoiled as milk and keep them in a cool place away from strong odors.

Feeding Leghorns.

Q. I have bought 200 Leghorns for eggs and as a foundation stock. I have 100 in a pen and they will have free range. Please advise me as to best way to feed them and how many times a day. Answer in the JOURNAL. Soil on our place is sandy.

Maple Valley, Wash.

W. S.

A. Feed scratch grain twice daily in good straw litter. Morning feed about one moderate sized handful per bird of a mixture of 32 lbs. whole oats with 10 lbs. wheat. Afternoon feed equal parts by measure of whole oats and cracked white corn, about same quantity. Use only good plump sound grain. When not on range or when greens are not plenty, supply good fresh green food daily, as much as they will clean up eagerly. Keep dry mash before them in a hopper. Open hopper about noon and close at night. Dry mash mixture made as follows: 50 lbs. of good, bright, well-cured cut clover; 100 lbs. each of coarse wheat bran, fine white fancy wheat middlings, whole ground or rolled oats, white corn meal, gluten feed and best quality fine ground beef scraps. Keep grit, oyster shells, charcoal and fresh water where birds can have free access to same. Scratch grain can be used in automatic feeders swung above litter,

one feeder for each 25 hens, if hand feeding is not convenient.

Losing Feathers on Head.

Q. I have 300 hens in one house. Last March I noticed one hen with no feathers on back of her head. I paid no attention to it, thinking it might be due to the activity of the male. Now to my surprise there are about 60 hens with



Your brood may be smaller than his, but you can get the same results!

"We have at present 2200 chicks in two flocks and they have had nothing but H-O Steam-Cooked Chick Feed, sunshine, water and exercise. Never had a better, smoother lot."

H. E. M., Penn Yan, N. Y.

If this breeder finds it worth while to feed H-O Steam-Cooked Chick Feed to his thousands of little chicks, won't you give it a trial, too?

The experience of big poultrymen proves conclusively that profits lie in *right* feeding. H-O Steam-Cooked Chick Feed is the right feed for chicks because every chick can digest it.

Being free from excess moisture, H-O Steam-Cooked Chick Feed does not sour or spoil. You find a smaller percentage of sick chicks and practically every chick is healthy and vigorous.

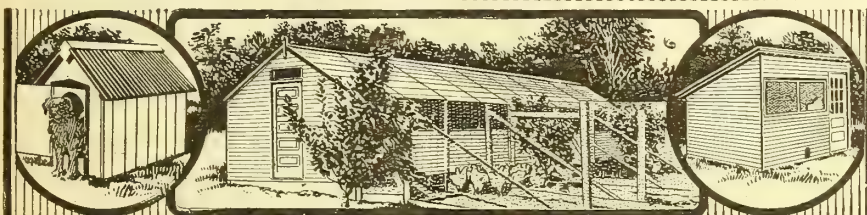
No matter how few chicks you have, this year feed them

H-O Steam-Cooked Chick Feed

Write for sample, prices and descriptive booklet.

The H-O Company
Mills:
Buffalo, New York

John J. Campbell
General Sales Agent
Hartford, Conn.



Dog Kennel

No. 4 Poultry House for 200 hens—5 units

No. 3 Poultry House for 30 hens

HODGSON PORTABLE HOUSES

The Hodgson poultry and dog houses enable you to take care of the stock with the least amount of trouble. This dog kennel is well-ventilated, sanitary and storm-proof. The poultry houses are made of red cedar, vermin-proofed, and are absolutely complete inside. All neatly painted and made in sections that can be quickly bolted together by anyone. Send for illustrated catalog.

E. F. HODGSON COMPANY Room 332, 116 Washington St., Boston, Mass.
6 East Thirty-ninth Street, New York City



HOMAJI REDS

The greatest Laying Strain of Single Comb Rhode Island Reds in the Northwest. Mating lists of 8 pens ready now. Send postal card with address to

HOMAJI FARM

Box 426

EVELETH, MINN.

WHITE WYANDOTTES

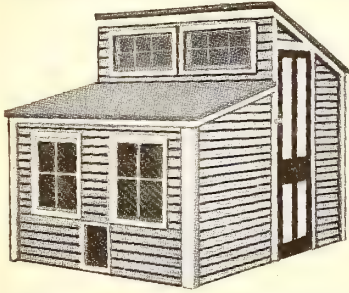
Eggs after May 25th from all pens including our Philadelphia winners, \$1.00 per 15, \$3.00 per 100. Chicks from the same pens, \$8.00 per 50, \$15 per 100. Hens for sale, \$2 and \$3 each.

CARR BROS., Celtic Poultry Farm

Box R, VINELAND, N. J.

Perfection Portable Poultry Houses

Have Solved
the Housing
Problem



Thousands of Poultry Raisers have become successful thru the use of these houses.

Write for our illustrated catalog. It will tell you all about Perfection Houses and why we can sell you a high grade house at a price considerably less than you can afford to build one. Enclose postage for catalog.

Perfection Portable Poultry House Co.

Phone Monticello 200
4040 N. California Avenue, - CHICAGO

(In no way connected with any other Co.)

Speckled Sussex

I will have cockerels and pullets fully matured and in show condition any time after July. Also have some stock to sell bred from first prize pullet, at Quincy, that has laid 150 eggs in 159 days.

CHAS. A. SIMMONDS

CAMP POINT - - - ILLINOIS

Fernbrook Farm White Wyandottes

Won at Buffalo and Boston, 1915 and 1916, and six other large shows. Stock for sale; eggs from ten exhibition matings reduced to \$2.50 per 15. Utility eggs \$8.00 per 100. Mating list free.

FERNBROOK FARM

Arthur G. Bouck, Mgr.

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Middlemarch Champion Strain

Black and Buff Orpingtons. Hatch some of my best eggs in June—raise winners for big shows. JESSIE F. GORDON Box 535 SPRING VALLEY, MINN.

the same trouble. Some of them have heads that are very red and seem sore and it extends back on neck for an inch or so. They lay just the same, nevertheless I am positive that whatever they have is catching. I would not ask for a better strain of Barred Rocks than I have now and want to put a stop to this trouble.

Springfield, Mass.

F. P.

A. Baldness is due to parasites. Dust your fowls well with good fresh Persian insect powder, work it into the feathers all over the fowl and right down to the skin. Rub a little sulphur ointment on bare parts where feathers have been lost and also rub a little into the feathers above and below the vent. Get the birds onto a well shaded range if possible where they will have an opportunity to run to the weather and to wallow in the moist earth. If there is not an ample supply of green on range, feed green food freely.

Is Cockerel Sterile?

Q. I have a White Wyandotte cockerel one year old on May 10, 1916—this is written on May 6—and he is mated to eight hens that were one year old some time in April. I have set five settings of eggs, 65 eggs in all, and have not gotten one chicken. The eggs do not seem to be fertile. This cockerel is "Regal strain" and is as pretty as a picture. He seems attentive enough to the hens. The birds are all well fed. He is three times as good looking as his brother and I would like to keep him if he is likely to be any good. Have had several poultrymen looking at him and they call him a "fine specimen," but some say he will be all right next year and others that he never will be any good. His brother is mated to six pullets, fed and cared for just the same, and I have had 90% hatches from them.

Beacon, N. Y. V. W. B.

A. It is quite likely that the cockerel is sterile, either from lack of development or from abnormal development of testicles. In such case the bird might be an unusually attractive specimen and very attentive to his mates, but you would not get any fertile eggs. If he proves sterile, he will never be of any service. However, you have been attempting to breed him when rather young. Would mate him now with two unmated two-year-old hens and after a week test all eggs carefully by incubating them and testing after six days incubation. In a month's time you should be able to learn whether or not he is really sterile. If sterile, kill and eat him. If he shows fertility, keep him with the old hens on a fair range and feed only enough to keep him in good order, until you wish to use him for breeding next season. If necessary to use old hens which have been mated, the test will take a little longer. Keep the eggs away from a male bird until their eggs run unfertile and then mate the



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Houstonia Strain won more firsts at Madison Sq. Garden and Chicago Coliseum, 1915-16, than all other Sussex competitors combined. Write for prices. Mention American Poultry Journal.

HOUSTON & BOFIUS Dept. A SO. CHARLESTON, O.

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won 1st Hen and 4th Cockerel at Greater Chicago Show, January, 1916, only three birds entered. Eight 1st Prizes, three 2nd, two 4th and one 5th prizes at Hammond, 1915 and 1916.

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hens with the cockerel and proceed as advised.

Corn Chop.

Q. (1) What is the "corn chop" mentioned in the feeding formula on page 31 of "Ducks and Geese"?

A. (1) Simply a coarse corn meal. Sometimes applied to a coarse feed made by grinding ear corn, cob and all.

Q. (2) Will sunflower seed make a good feed for ducks? Should it be ground?

A. (2) We have never fed it to ducks. If you do not feed it too freely, it should be all right either whole or ground.

Q. (3) Will ducks lay as well if the drakes are kept away so that the eggs will be sterile?

A. (3) Yes.

Q. (4) How long after the drake is put with the ducks before the eggs come fertile?

Rosendale, Wis.

G. D. T.

A. (4) That depends upon stage of laying. If ducks are ready to mate you may get fertile eggs in three or four days. Generally it is safe enough to set the eggs after drake has been with the ducks for a week. Four or five ducks are enough for one drake.

Minorca Chicks.

Q. Being a subscriber for the AMERICAN POULTRY JOURNAL, I feel that you will give me some information, if possible, thru the columns of your journal regarding the following: I am a S. C. B. Minorca fancier and purchased a cock bird of this breed from one of the largest S. C. B. Minorca breeders in the United States, and some hens from a breeder quite well known, both being members of the American Poultry Association and of the S. C. Black Minorca Clubs. From each hatch from this mating I have received from one to three chicks of almost a solid brown color. After a few days they develop brown stripes down the back similar to a Brown Leghorn. I toe-marked each one and have watched them carefully and find that as they advance in age, they seem to turn black, some of the older ones, which are sixty days old, are entirely black, while others carry some of the brown on the backs and especially on the neck close to the head. I would like your explanation of this, if possible, and any information you can give me will be greatly appreciated.

San Antonio, Texas.

C. F.

A. Don't let the "baby color" of chicks from black breeds worry you. When they are fully mature you will probably find the color all right. White, brown, and even red color may show in young chicks of solid black varieties, but they usually prove sound in color when fully matured after moulting chick feathers.

Comb Deformity.

Q. I have a very fine Orpington cock and he was in good shape and won sev-

Rockdale

White Plym. Rocks

Better-Bred Eggs \$3.00 for 15.

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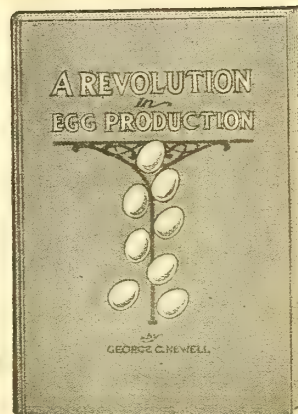
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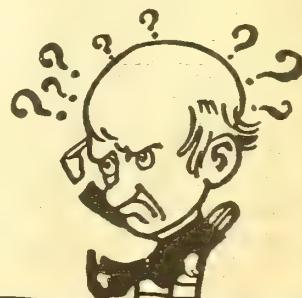
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den and Chicago, and they ship birds C. O. D. on approval.
Nurt said, Z. B. STRUBLE, Lock Box 5, BASCOM, OHIO.

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now half price. Coliseum Winners.

L. J. DEMBERGER, Box 89, Stewartsville, Indiana

eral ribbons. His comb is curved at
rear and is gradually growing worse.
How or where could I get a brace to
hold his comb straight? Comb is in
good condition and has never been in-
jured.

Claremore, Okla.

J. E.

A. We do not advise doctoring that
comb. It won't affect his breeding par-
ticularly, unless there is a hereditary
tendency to defective comb. Nothing
short of surgical measures and splints
would straighten the comb and that is
considered "faking."

Eggs Don't Hatch.

Q. I have a young cockerel about one
year old mated with twelve hens, seven
of them are three years old. The cock-
erel is just a "pick up." Have set six
sittings of eggs and have not hatched a
chicken. This never has happened to me
before. Two of the hens left the nest
but the rest set fine.

New Holland, Ill.

W. R. C.

A. We have had a large number of
similar inquiries this spring. The cock-
erel may be too young to breed well or
he may be sterile. As he is only a "pick
up" it is possible that you have a "slip"
or young male that someone tried to
caponize and failed to make a good
operation. A "slip" will crow, look like
a fine cockerel and prove unusually at-
tentive to its mates, but will never fertil-
ize an egg. The same is true of males
with undeveloped or diseased testicles.

Never try to breed an immature male
unless forced to do so. We mated a
10 months old cockerel this spring to
four hens, but never got a hatchable egg
out of that pen until the cockerel was
over 12 months old. Had we been able
to get a more mature male of the same
line we should not have attempted to
breed the youngster.

Blood Spots in Eggs.

Q. A good many of our eggs have
blood spots in them so that my custom-
ers are complaining. What causes these
spots and what can I do to remedy the
trouble?

Batavia, Ill.

N. H. V.

A. The blood spots are due to rup-
ture of a small blood vessel in some part
of egg organs, usually near or at ovary.
A small percentage of blood spots can-
not be avoided, but you can test such
eggs out by use of a good electric egg
tester. Sometimes when blood spots are
frequent, the cause may be found in in-
jury from a too heavy and abusive male,
from the hens being chased or fright-
ened or roughly handled and from too
high perches. Overfat hens commonly
show blood spots in their eggs.

Fish Scrap.

Q. Will you kindly advise me where
I can obtain fish scrap. I have tried
unsuccessfully in several places.

Bedford, Ohio.

B. L. J.

A. You will find fish scrap advertised
in our adv. columns.



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Eggs for hatching from Cleveland and
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Barred Rocks—At Boston, 1916, we
entered 2 birds and won 1st PULLI F, also 4th Pullet
brod cockerel. This wonderful win, and there were
10 exhibitors. Stock and eggs, just like these winners.
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Won at Buffalo, the past 5 yrs., 4 firsts and 3 seconds
on chicks, 3 firsts and 3 seconds on pils., and all firsts
on hens. Choice birds, or eggs for hatching.

A. F. ALMENDINGER, 180 E. Delavan Av., Buffalo, New York

WHITE PLYMOUTH ROCKS

I have some very fine show birds for sale at reason-
able prices. If you want good breeders I furnish
them. Hatching eggs, \$3 and \$5 per fifteen.

WALTER P. NELSON

Route 21 Bayonne, New Jersey

Inflammation of Egg Organs.

Q. I have a pen of 590 White Leghorn pullets and am having trouble with hens becoming apparently egg bound. They strain considerably while laying and the trouble has become very pronounced during the last two weeks. In some cases blood comes away in considerable quantities. Unless the hen is removed immediately the other hens attack and kill her. I have lost ten during the last four or five weeks and at present have about twenty isolated, five of which were taken out. Have I been feeding too heavily and is the food too rich? The daily average of eggs for January was 185, February 206, March 214 and to this date in April 325. The following has been their daily ration: 15 quarts cracked corn, 15 quarts wheat and 10 quarts oats; mash feed, 21 quarts consisting of $4\frac{1}{2}$ quarts corn meal, $4\frac{1}{2}$ quarts wheat middlings, 3 quarts gluten meal, 3 quarts alfalfa meal, 6 quarts bran, occasionally a quart of linseed meal in this amount. In addition to this, they get from 5 to 10 quarts steamed alfalfa, fed pure, also half a bushel of mangels daily; dry mash before them all the time, being Chicken Chowder, which you, no doubt, are familiar with. They have beef scrap before them all the time, grit, oyster shell, charcoal, etc. The eggs have become noticeably larger during the last month.

Brooklin, Ont.

G. W. H.

A. Hens may possibly be egg bound, but it looks to us more like inflammation of egg organs resulting from the heavy feeding on rich food and too much linseed meal. Would get them on to a diet of mainly oats with a little wheat—omit mash and steamed hay for present and give green range, with ample shade. You may find that a part of the trouble is cannibalism, picking and eating one another, which results from crowding, close confinement and high feeding.

HOW MANY CHICKS DO YOU LOSE?

Statistics Show That Losses Are Needlessly Great

Such statistics as are available show that about 50 per cent. of chicks never attain the pullet age, a percentage of loss which, according to Dr. Hess, a veterinarian of high standing, is needlessly great. Chicks that are regularly given a good tonic, blood builder, internal antiseptic and digestive stimulant will usually live to robust maturity and become strong, laying hens or virile roosters. Leg weakness, gapes and indigestion are the most destructive maladies, and among other preventive and curative medicines Dr. Hess Poultry Pan-a-ce-a has received general commendation. It has had the approval of farmers and poultrymen throughout the country for over 22 years, and is sold under an agreement whereby the dealer will refund your money if the preparation fails to do all that is claimed for it. Any means of decreasing chick losses and increasing hen productivity will surely interest every farmer who is trying to keep up his profits in this line.

Dr. Hess Poultry Pan-a-ce-a can be used advantageously for poultry of all ages. One of the largest uses is, of course, for egg production. Poultrymen are very generally agreed that Pan-a-ce-a has a beneficial action on the egg organs. It tones up and enlivens these organs and puts hens in egg-laying condition. It will be understood that Pan-a-ce-a is not a stimulant, but a true tonic whose action is of a permanent nature. When moulting time comes in the fall Pan-a-ce-a is valuable to hurry along the moult and get hens started promptly to laying again.—Adv.

THE WHITE HOUDAN.

The above is the title of very neat little booklet on the White Houdan fowl, published by Eugene A. Smith, Vauxhall, N. J., who is an enthusiastic breeder of this variety. It is sent free on application.—Adv.

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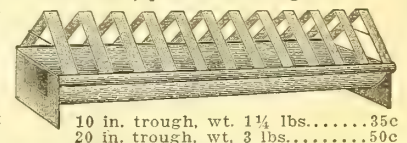
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Hubbard's Peerless S. C. Buff Orpingtons

Here is but one of the many cases that go towards making my birds what they really are, "The Peerless."

From a setting of eggs sold last year there developed one of the 1st prize males at Madison Square, 1916. Our mating list tells the story, it is free. If you order during June will make you half prices on eggs.

C. H. HUBBARD, Mgr., FOXHURST FARM, Box 52, LIME ROCK, CONN.



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Do you want Buttercups like this *Palace Queen*? Isn't she a beauty? Won First and Color Special at the Palace, 1915—she is "Bronze Beauty's" daughter.

My pen of prize winners, headed by 284-egg cock bird, will produce some famous layers as well as Blue Ribbon winners. If you want to win the Blue, try some of these eggs.

50 Eggs from pen headed by 270 Cockerel, \$5.00

Free booklet.

Mrs. Hattie D. Reed Chestnut Terrace Marcellus, N. Y.

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Make a profit on every egg—don't let a single one spoil. Get "strictly fresh-egg" prices for every egg any season of the year. Does not change appearance. Keep the eggs at home until prices are highest.

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Makes you independent
Think what this means

Sell them at your convenience. Write today. Delay means money thrown away. Trial sample will treat 50 eggs, 10c, or a can that will treat 2,000 eggs, \$1.00. Guaranteed or your money back. Pamphlet free.

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White Wyandotte Eggs

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THE WHITE WYANDOTTE POULTRY YARDS,

Send for prices. They will interest you.
H. J. W. Fay, Prop.

WESTBOROUGH, MASS

Home and the Table

Good Things for Everybody

Helen T. Woods
Editor

I said it in the meadow path:
I say it on the mountain stairs—
The best things any mortal hath
Are those which every mortal shares.
—Lucy Larcom.

IN JUNE everyone is an optimist. Nature has spread before us her most tempting array. The grass is green, the trees in leaf, the sky blue, the sun warm and the summer's blossoms at their greatest beauty. Bird concerts are daily treats in orchard and woodland and the frog opera season is now on with its strange delightful music trilling thru the night. As the sun sinks behind the west, the last twitter of sleepy birds dies away and the hush of early evening descends upon the earth. Suddenly from somewhere comes the first trilling notes of the frog. That there is a leader in each stream, bog or pond from which issue these voices of the night, no one who has listened to their weird and unmatched concerts can doubt. The air is still with not a sound to be heard. The hush of evening is upon us when the first note from some mysterious throat breaks the stillness. The baton has been raised and from a thousand jangling strings bursts forth the response. After the first wild tumult dies away, there is rendered a dreamy lullaby, low pitched and beautiful, than which there could be no finer sleepy song. Now and then comes the deep basso "Ah-h-h-rum-m-m," a soft deep guttural, mingling in wonderful choral effect with the pleasing va-

riety of frog songs and voices. The evening wears away and sleep is insistent with the pleasant accompaniment of swaying branches, fragrance of flowers and the harmonious notes of the invisible frog choir. The joy of the month of June permeates the hearts of all and awakens in them a renewed belief in man and love of Nature.

Ancestor hunting in some individuals develops into a sort of mania and to un-earth illustrious forebears, the one reason for existence. Of course it is a fine thing to have been well born, but what constitutes being well born is a disputed question. Personally, we believe that no better qualification for being well born can be suggested than that of being born of healthy, industrious, intelligent, honest parents.

Not long ago we read in a foreign publication, which is being edited by an American for the benefit of the English and French hospitals, an interesting estimate of the number of ancestors in five centuries necessary for one individual. The figures were rather appalling and whenever we hear "large talk" in reference to some one illustrious ancestor, we are led to wonder what manner of timber constituted the million or more ancestors not spoken of.

Every few days we read in the papers that such and such a person is directly descended from such and such a noble or illustrious family. Pursuing the ancestor hunt back to William the Con-

queror is a common habit of wealthy Americans. On giving thought to the subject we are led to voice the opinion that personally we would hope to have been descended from some of the common folk who suffered for their cause, were honest workers and without the stain of intrigue, pillage and murder upon their horny hands of toil.

There is, however, sufficient cause for fervent thankfulness in having been born of healthy, intelligent, industrious and honest ancestors and in view of the multitude constituting one individual's ancestry, it is safe to say that most humans have had one or more ancestors answering that description. If there be any who cannot in his own mind remember such an ancestor—let him not despair. For after all is said and done there is something altogether more worthy and inspiring than having illustrious ancestors and that is being one yourself. Any of us can be a good ancestor if we want to be to the extent of working conscientiously toward that end. Following a right order of such things, each generation should prove itself a little more useful and advanced in right living than the one preceding it. Therefore it follows that even tho you may claim direct descent from the most illustrious and noble names in the history of the human race, if you have not equalled your illustrious ancestor, or gone him one better, you are an unworthy descendant.

If on an ancestor hunt, bear in mind that there are human qualities more worthy than bestowed or inherited titles or wealth and which are acquirable by any one who will persevere in their cultivation.

* * *

Ethelbert Nevin, the American composer, once wrote a friend: "Last night in Rochester I had a perfect ovation and I don't know when I have played so well. In one of my numbers the gas in the hall went out. I heard quite a little rustle of confusion in the audience which threatened to become panic, but I kept my self-possession and finished my work in total darkness. When I was thru, the people simply were wild in their enthusiasm. To keep them quiet until the lights were arranged, I again played that composition (meaning Narcissus) and it was so still in the hall, I felt the audi-

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ence could almost hear my heart beat."

How many are keeping on with the melody in the darkness until the lights are arranged, thus preventing a panic in the audience meanwhile? No finer inspiration is given to humans than that of the artist who can keep his heart in his work, his fingers on the keys and his mind above the blackness that surrounds him when the lights go out. In the present day crisis of tumbling civilization, with the Fear Mongers using every effort to incite alarm among the people and terrorize them into a state of panic, it becomes a crucial moment when our fingers should be doing their best work at the keys and our minds keen to see above and beyond the blackness surrounding us.

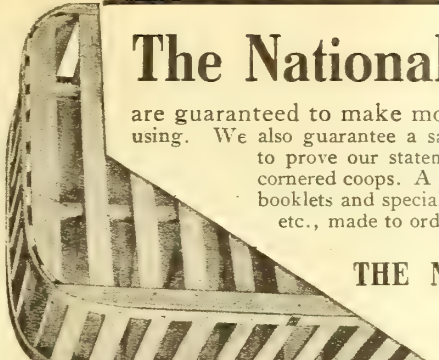
* * *

The Baltimore Orioles are again constructing their marvelously woven and picturesquely suspended summer homes in the century old apple trees in our orchard. The first pair made their appearance on May tenth. I was washing the breakfast dishes when I heard the old sweet note, bringing back with it a flood of memories of summers gone. On the scraggly limb of a gnarled old apple tree then bare of foliage, perched lightly on topmost bough, he poured forth a melody of returning summer, the gold of his coat glistening in the morning sun. As songsters the orioles bring joy to the most downcast heart. His is a note of optimism guaranteed to give flight to the darkest and most deep dyed glooms. As architects, they outclass all competitors. Artistic, graceful, airy, swinging habitations—mayhap more of us could strike such a note as theirs could we as skillfully construct and occupy a home in the tree tops with the apple blossoms bursting and scattering their sweet fragrance over the earth. When I came back the dishes had dried from long waiting and the water was cold, but I had welcomed back my old friends, the orioles, to the orchard and their songs of returning summer are with me yet.

* * *

Let every housekeeper declare war on the fly, the mouse and the rat. Here are subjects for real earnest work and warfare. More sickness and waste are caused by these pests than any other combination of causes—except human warfare. It may take many decades to free mankind of his belief in and desire for wholesale murder of his kind, but in the meantime let the home makers of the nation voice their disapproval of war or preparation for it and devote their annihilating energies to the destruction of those pests which prey upon the progress and sanitary living of the human race. If we could have access to even a small part of the funds and scientific knowledge which are being applied to the cause of war and the destruction of man, we could rid the planet of mice, rats, flies, mosquitoes and countless other pests within a few years. But working along the line of individual endeavor, with only such time, ability and funds as each of us can devote to the cause, a great deal can be done, and thousands of dollars worth of food stuffs and an inestimable number of human lives saved.

Flies are the main cause of the spread of typhoid fever, cholera infantum and of those diseases known as summer complaints. There are more than half a million cases of typhoid in this country annually and fifty thousand or more deaths



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Remember, you take my word for nothing. I state only official records made at National Laying Contests.

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\$8.69 worth of Eggs by BARON-ESS V., the 282-egg hen, at North American Contest, 1913-14. Four others laid 274, 271, 258 and 252 eggs. The five laid 1337 eggs, an average of 267, or \$8.21 per hen.

I have a flock of 27 Hens that gave net profit per hen of \$4.67. These are the three Contest Pens I bought of Barron, and which he had at Pennsylvania, Connecticut and Missouri. All my Wyandottes are bred from these.

In Leghorns—

I am breeding the Highest Pedigree Cockerels in the World, out of the 288-Hen, winner at Newport, Eng. This affords new Winning blood for the Barron breeder. Others, 284, 256, 255, etc.

In Buff Rocks—

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All Breeders tested by Storr's College. Free of white diarrhoea.

SPECIAL REDUCTION

May and June on pedigree chicks, also on eggs. Take advantage of this by ordering early. Half grown stock half price July and August.

MORRIS FARM

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from typhoid and sixty thousand or more deaths from cholera infantum. Practically all of these could be prevented if the fly nuisance was done away with. And yet there are crafty politicians crying for more men, ammunition and arms that they may be able to conquer more worlds!

Make war on the early fly. June is the last call to battle in the successful fly annihilation. After June her offspring have so reinforced the early fly that the battle is against tremendous odds and even by putting forth our most up-to-date preparedness campaigns, we cannot hope to put her and her long line of descendants to rout. Now is the time to kill a million flies at a stroke by killing the mother of the fly family before she deposits her eggs in some filthy corner of the farm yard and her prolific descendants begin their deadly work.

Mice and rats, like flies, are not believers in or practitioners of race suicide. They believe in multiplying rapidly and over-running the earth. A good cat or well trained dog will assist greatly in the fight to drive them from the face of the earth. Well baited traps, not once or twice a year, but whenever and wherever there is evidence of a mouse or rat having been, will render great assistance to the home keeper bent upon their extermination. Keep food covered and out of their way. Leave no scraps about to tempt them into your domain. And keep up the fight!

Don't forget about the noisome mosquito, which, like the poor, we have always with us. Leave no stagnant water about to assist in their propagation. A quart or two of stale water in discarded tomato cans in the dump will greatly assist the mother mosquito to give birth to a million or more of her annoying and many times deadly offspring. The fight is on, but it is a clean, unlifting battle to rid the world of these death-dealing pests and in time even the war lords will be among our recruits.

OLD FASHIONED GRAHAM BREAD.

By S. D.

Soften $\frac{1}{2}$ yeast cake in $\frac{1}{2}$ cup warm water. Melt 2 tablespoonfuls butter in 1 cup scalded and cooled milk, and 1 teaspoonful salt, $\frac{1}{2}$ cup molasses, yeast in the water, and stir in 2½ cups graham flour and 1½ cups white bread flour, mixing very thoroly. The dough is not firm enough to knead. Cover and let stand over night. In the morning cut the dough thru and thru with a knife, turning it over and over, meanwhile turning it into one large buttered bread pan or two small ones. Smooth with a knife and let stand to become nearly doubled in bulk. Bake about one hour.

DARK FRUIT CAKE.

By S. D.

Frances — Half cup butter, $\frac{3}{4}$ cup brown sugar, $\frac{3}{4}$ cup raisins, seeded and cut into pieces, $\frac{3}{4}$ cup currants, $\frac{1}{2}$ cup citron thinly sliced and cut in strips, $\frac{1}{2}$ cup molasses, 2 eggs, $\frac{1}{2}$ cup milk, 2 cups pastry flour, $\frac{1}{2}$ teaspoon soda, 1 teaspoon cinnamon, $\frac{1}{2}$ teaspoon allspice, $\frac{1}{2}$ teaspoon mace, $\frac{1}{4}$ teaspoon clove, $\frac{1}{2}$ teaspoon lemon extract. Bake in deep cake pans 1¼ hours, moderate oven.

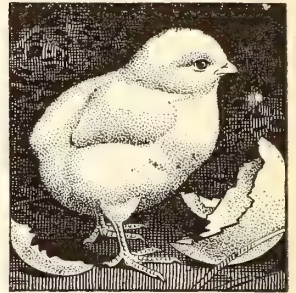
LIGHT FRUIT CAKE.

By S. D.

One-half scant cup butter, one cup sugar, one-half cup milk, 1½ cups flour, three teaspoons baking powder, whites

of four eggs, one-half teaspoon vanilla, one-half cup raisins, seeded and cut in pieces, two ounces citron thinly sliced and cut in strips and one-third cup walnut meats cut into pieces. In making mixture reserve one tablespoonful of flour to use for dredging fruit. Measure dry ingredients and sift together. Cream butter and sugar; add egg whites, beaten light, then milk. Flavor and then flour with baking powder sifted in. Dredge fruit and add.

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"Bella Vista" White Rocks won the Zenolium trophy at the 1915 Palace show, for the greatest number of points on any one breed.

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The American Poultry Journal offers the following prizes monthly for the two best articles received on or before the fifteenth day of each month: For the best article, a prize of Three (\$3.00) Dollars will be awarded; for the second best article, a prize of Two (\$2.00) Dollars will be given. Articles intended for the Contest must be written on one side of the paper only and should not contain less than 1,000 nor more than 2,000 words. The articles may be written on any subject pertaining to poultry culture. We reserve the right to retain all articles submitted and to publish such as we deem worthy of space. Send all articles plainly marked to Contest Editor, American Poultry Journal, Lock Box 4, Silver Lake, Mass.

SUCCESSFUL METHOD OF RAISING CHICKS.

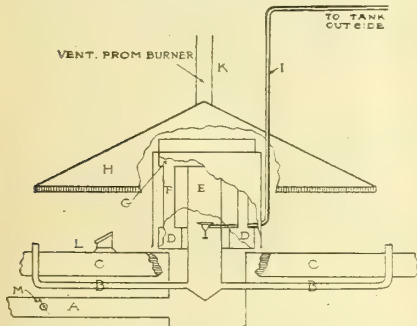
First Prize Article in American Poultry Journal's Monthly Contest.

By ALVIN J. MYERS, Blue Island, Ill.

A METHOD of brooding and raising chicks that has brought remarkable results wherever tried will probably be of interest to poultry keepers at this time. From my experience and observation I am inclined to believe that a large part of the bowel trouble in chicks is the result of wrong brooding and feeding, and easily avoidable.

Not being able to find a brooder that came up to my expectations, I constructed one after the plan herein given and it has proved entirely satisfactory. The burner is located in a center drum, which leads to larger top drum, which in turn is connected with a bottom ring with eight small tubes. The bottom ring is connected with the chimney or vent flue. This heater is surrounded by a casing, with a large hood over all. The bottom of the burner drum is connected with four pipes under the floor which have inlets in the four corners of the room one inch above the floor, covered with one-half inch mesh wire.

These four pipes insure forced ventilation at all times, carrying off all foul air to the outside. The heater casing is connected with a pipe under the floor which has an outside inlet. This insures fresh heated air at all times. The fresh air pipe has a damper to regulate the amount of air according to the weather. (See sketch for detail.)



1—Showing cut-away section of brooder heater. (See article "Successful Method of Raising Chicks"). A—Fresh air intake. B-B—Foul air vents. C-C—Joist. D-D—Lower down draft ring. E—Burner tube. F—Drum connecting tube. G—Upper heat ring. H—Deflector. I—Fuel pipe. K—Vent flue. L—Thermometer. M—Damper.

The burner uses either gas or gasoline, and has no regulator. After once being regulated it requires no further attention. The flame is regulated so as to give a temperature of one hundred degrees, one foot from the casing, with the bulb one inch above the floor. I believe the forced ventilation and fresh

heated air features to be almost ideal, because the chicks have a steady even temperature of fresh heated air, with no foul air.

Most of the colony brooders could have both of the above changes made at a small expense. Gas or gasoline will cost about twenty-five percent more than coal, but when you consider the necessary time to look after a coal brooder, it will be found that the gas or gasoline heater is the cheaper.

The brooder house floor is covered with one inch of sand, which is sprinkled with a weak solution of Lysol and renewed three times a week.

After the hatch is over the chicks are placed in the brooder, care being used not to chill them. They are given nothing to eat for thirty-six hours, but are allowed sour milk. The sour milk is put in a fountain with a cover which has three-fourths inch holes, this receptacle preventing the chicks from getting into it or getting wet.

A one-inch mesh poultry netting ring is placed around, four feet from the heater casing, for the first three days. Until the chicks learn where the heat is, they are liable to stray into corners and become chilled. Once a chick is chilled or overheated it is about impossible to make a healthy chick of him. I have tried it several times by marking the chicks and never was able to raise one that would pay for the food consumed. I never try to raise weak or sickly chicks. When the chicks are thirty-six hours old, I cull them and destroy all weaklings, thereby giving the good ones a better chance.

For the first feeding, I give rolled

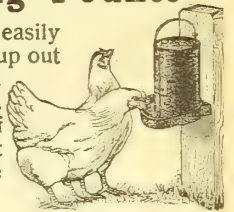
oats and hard boiled infertile eggs, run thru a food chopper. It is mixed fresh, just before feeding and, and placed on shallow pans. I keep food constantly before them. When bringing a fresh supply, if anything is left of last feeding it is removed. A great many people object to keeping the food always before the chicks, saying they will overeat and develop bowel trouble, but my ex-

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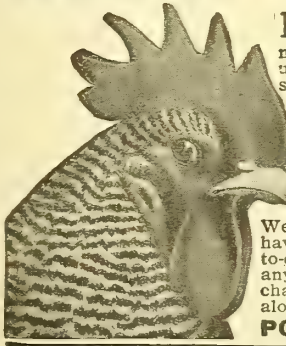
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and the Grand Trophy for Best Barred Plymouth Rocks

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4 Firsts; 2 Seconds; 2 Thirds; 1 Fourth; 3 Fifts

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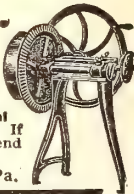
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Send \$5.00, \$10.00, \$15.00, for Cockerel on approval. 1916 Mating List Free.

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Eggs for hatching and Day-Old Chicks. Embden Geese Eggs. Mating list free.

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Brooders--mill Colony, \$30; Magic, \$15

We have brooders in stock and can ship on receipt of order. Send for booklet describing world's greatest brooders. United Brooder Co., Trenton, N. J.

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Eggs and stock all sold. Youngsters for Fall delivery. Real Cornish type.

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QUALITY WHITE WYANDOTTES

72 winnings this season. I can furnish you with high-grade stock and eggs at reasonable prices.

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Rich Mahogany Chickens with all-purpose qualities--standard bred.

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RAU'S Blue Orpingtons Speckled Sussex

Stock and Eggs. Write.

FRED RAU, Grand Hotel, INDIANAPOLIS, IND.

Ward's Champion BUFF ROCKS

Fine chance to get a good start. Pens, four young hens and one yearling cock, \$12.00. Eggs, 30 for \$3.00.

R. W. WARD. - NORMAL, ILL.

Buff Orpington Specialist

Quality stock at modest prices. Mating list free. A. B. PORTER, Box 4, La Salle, Ill.

perience is just the opposite. When chicks are fed only at certain periods they rush wildly for the food and the most vigorous eat more than they should, while the weaker ones are pushed away and not eat enough. While when food is always before them they all get enough to eat and the growth is steady and uniform. I have had no cases of bowel trouble in chicks since adopting it. My records for the past five years are as follows, counting the chicks at the end of thirty-six hours, I have raised the following percentages of chicks: 1911, 80% 1912, 94%; 1913, 95½%, 1914, 92%; 1915, 98%. Hens were used to hatch and brood in 1911.

The rolled oats and infertile egg mixture is used for one week, with sour milk to drink. Commercial chick food is gradually substituted for the egg mixture during the second week, but no sudden change of food is made. A mash, composed of wheat bran, 60%, and corn meal, 40%, is kept in chick size hoppers (always open) after the second week. A little beef scrap is added later and gradually increased until the fourth week it is one-third beef scrap. Grit and charcoal are kept before them all the time, and sprouted oats are fed at nine and two o'clock daily during the third week, gradually increasing until the fourth week, when they are fed all the sprouted oats they will consume in one-half hour.

After six weeks, some whole grains and the usual cracked grains are fed, the ration being much the same as for old fowls and the beef scrap is again reduced to fifteen percent.

The amount of time required to care for young chicks by this method is comparatively small. I believe that one man could care for from six to eight thousand chicks by this method and do his work well. Most colony brooders could be changed after this style and thereby give the forced ventilation and heated fresh air.

HOME-MADE FIRELESS BROODER.

Being Second Prize Article in American Poultry Journal's Monthly Prize Contest.

By ROBERT S. KETCHAM, Boonville, Ind.

IT IS not necessary to be a carpenter to construct a good useable fireless brooder. To get the material for construction will not require much capital, but if instructions are followed the results will be good.

Get a common flour barrel or apple barrel and knock out both ends. Saw the barrel off even, about eight or ten inches from end, which finishes the frame work for two fireless brooders.

Nail each stave firmly to the hoops to prevent it from falling to pieces when it shrinks. Cut the door thru one of the widest staves, using the largest hoop for the threshold, and turn the "tub" small end up. Bore one-half inch hole in each stave, middle way between the hoops for ventilation, as later on you will find the necessity of having as near perfect ventilation as it is possible to obtain.

Get a square yard of woolen goods, cotton may be used, but woolen is much preferred. Spread the material out flat and set the tub on it, large end down, then cut the cloth circular shape six

Silver Wyandottes

"There is Money in Silvers"

I WILL SELL EGGS \$3.00 for 15 \$5.00 for 30

I have a splendid lot of big, open faced birds--splendid layers. Also can spare a few high class show birds. Correspondence invited.

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Bella Vista Strain, beautiful S. C. White Leghorns bred to lay. Many individuals with records of over 200 eggs. We will sell choice one and two-year old hens at \$1.50 each, and March and April hatch pullets in lots of 100 or more at 50c each for June delivery, 75c for July delivery, and \$1.00 each for August and September delivery. Safe arrival and satisfaction guaranteed. Correspondence solicited. Catalog free.

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Best Cockerel, Harrisburg, Pa., Dec., 1915

Satisfaction guaranteed. Send for Mating List.

M. H. Banks, Dillsburg, Pa.

Grant's White Rocks Win

AT GREAT CHICAGO JANUARY SHOW, 1916, 1st cock bird (one entered), was one of the real sensations of the show. Eggs \$5.00 and \$2.50. A few nice females, \$2.50. Place your orders early. Satisfaction guaranteed.

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Eggs for Hatching from real winners. Fifteen years a successful breeder. Winners everywhere shown. Mating list free.

QUALITY FARM, H. M. Woods, Carlinville, Ill.

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Chicago winners. Eggs for hatching and stock for sale.

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USE THE AXE, but not when you have Handyside's Diarrhoea and Cholera Cure on hand. A satisfaction guaranteed remedy for all kinds of bowel trouble in poultry. 50c and \$1.00 boxes. Sample free. State if for chicks or grown fowls. Dealers wanted.

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R. C. W. LEGHORNS. Winners at Nat'l Shows Chicago Coliseum, Milwaukee, Minneapolis, Duluth and many others. At Milwaukee 5 1sts; 3 2ds; 3 3ds. In competition with World's Fair winners Eggs for; hatching and day-old chicks.

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Thornycroft Buff Leghorns

Have won at Madison Square, Pittsburg, Buffalo, New York State Fair, and Hagerstown, within a year. They win in any competition. Write your wants.

THORNYCROFT BUFF LEGHORN FARM WASHINGTON, PA.

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Hatching Eggs from exhibition matings.

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Prices on baby chicks on request.

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Send for our Book of Plans No. AB & today. It shows over a hundred Harris homes, barns, garages, etc., in beautiful half-tone engravings. Explains everything in detail, gives prices, floor plans, etc. Mailed FREE.

HARRIS BROTHERS COMPANY
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\$2.50 for 25 to 50 CHICK HOVER

Made of Galvanized Steel. Can be used in any box. Safe and durable. Hot water heat. All complete. Incubator box free. We make 73 different articles.

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inches larger all around than the tub. Next make a wire hoop that will fit the tub four or five inches from the large end. Draw the cloth over the large hoop so it will hang down five inches all around and sag down inside the hoop. The sag distance to rest on the backs of the chicks, and the hanging curtain around the inside of the tub should be trimmed even with the bottom.

The hover cloth must be caught to the wire hoop every three or four inches, using a coarse needle and thread. Tie tightly and gather the cloth evenly as you proceed. Set the tub large end down and hang the hover by means of three or four wire "S" hooks under the hoop and over the top of the tub. Cut a slit in the hover cloth at the door and make a slitted flap to tack over the outside of the door.


Make a layer of wool, cotton, feathers or any fine hair or moss, or other non-conductor of heat and cold and fill in over the sagging part of the hover. This will be of great assistance in keeping in the heat generated by the chicks' bodies. In cold weather, there should be several layers of this material, covering carefully over the top of the cloth.

A cover for the brooder should be made by stretching a piece of burlap over a large hoop and fastening it securely. This is a much better plan than tacking the burlap over the top of the brooder.

Each morning the brooder should be moved to a fresh spot that no accumulation of droppings or decayed food may contaminate the chicks. At first, this brooder will very comfortably take care of from twenty-five to forty chicks, but as they develop they must have larger quarters. During the first few weeks, this brooder provides a comfortably warm and sanitary shelter for them.

I have heard the complaint made that it was difficult to get chicks so brooded to go in and out at the door at first and I agree that it requires time and patience to train them "the ins and outs" of their first home. This difficulty is to be met with in any kind of artificial brooding. I have used these brooders successfully for a number of years and I prefer them to the manufactured ones. They are much cheaper, safer and more sanitary, and last but not least, they are, in my estimation, the most healthful of brooders. The time required in caring for a brooder of this kind is comparatively small and the busy back-lotter may operate a number of them, moving them frequently to clean patches of earth and realize a good profit in poultry keeping at small expense for equipment. A trial will convince the beginner of their usefulness and suitability to his venture, and having tried one, he will in all probability continue their use.

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EASIEST run, Fastest Cutter, Strong, Substantial build. Bone scrap means more eggs, higher percentage fertility. Own a "Crown" Cutter and have fresh bone for every feed. Dry Bone, Grain and Shell Mills. Hand and Power sizes. Free illus. catalogue. Est. 36 years.

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LEGHORN CHICKS

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25 to 50 chicks.....	13c
50 to 100 chicks.....	12c
100 to 500 chicks.....	11c
500 to 1000 chicks.....	10½c
1000 to 2000 chicks.....	10c
2000 to 5000 chicks.....	9½c
5000 or more chicks.....	9c

You are practically as early this year hatching chicks in June as any other year in May. On best advices all over the country, east of the Mississippi, we believe there are not more than one-half to two-thirds of the chicks hatched as in former years. There was not over 25% of the chicks hatched this year in February and March as in former years, on account of the extreme cold weather. April hatches also were way behind. Chicks are bound to be in demand very late this season, and if you want winter layers, by all means buy W. Leghorns, the only breed that will mature before the cold weather. We shall hatch

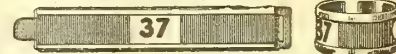
12,000 Chicks a Week

during the month of June. Order now at our big reduced prices. Send for our 104-page catalog, the finest W. Leghorn catalog published this year.

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that wears and is always easy to read. All sizes from fifteen-sixteenth of an inch to three and one-half inches. Aluminum and celluloid. Send for free catalogue and sample.

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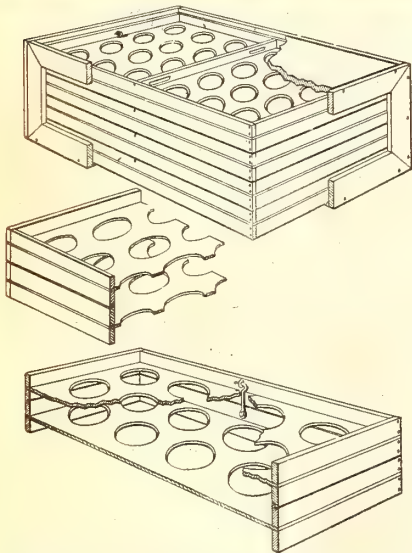
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Recent Inventions for Poultrymen

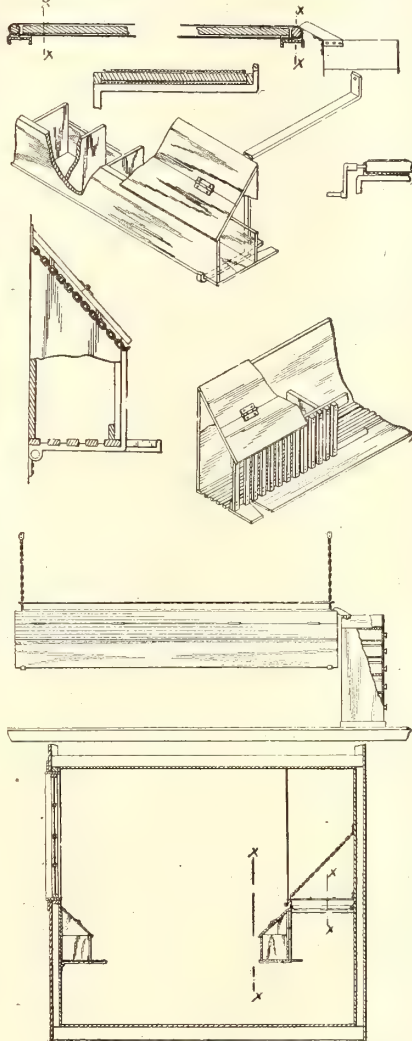
By Lester L. Sargent, Patent Attorney, Washington, D.C.

BERTHOLD A. LANGE, St. Louis, Missouri, is the inventor of the crate for shipping eggs shown in the accompanying illustration. The edges of the frames are correspondingly grooved so corresponding edges of each frame engage in the grooved edges of the frame below or above, as the crate may be arranged. Aligned openings are provided to receive and hold the eggs between the respective sections. The frames are disposed in superposed relation, and for shipping are placed within an open paneled skeleton container rather than making the container of completed box construction. By this method an im-



A crate for shipping eggs, patented April 18, 1916, by Berthold A. Lange, St. Louis, Mo. Patent No. 1,179,845.

portant saving of material is achieved, while at the same time the trays are boxed in a strong package of comparatively light weight. In filling and emptying the crate one frame is lifted off



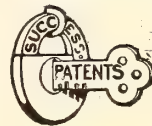
A sanitary house, patented May 2, 1916, by Niels M. Anderson, Dassel, Minnesota. Patent No. 1,181,204.

while the eggs are placed in or removed from the companion frame beneath. The patent is No. 1,179,845.

Niels M. Anderson, Dassel, Minnesota, has devised a sanitary chicken house. The nest boxes are arranged so that all of the nest except the bottom board may be lifted off to permit of cleaning. The house is provided with a fattening coop, having bottom slats that can be withdrawn one at a time for cleaning. The roost is arranged over a dropping board over which an endless apron is mounted. A hand crank affixed to one of the drums over which the apron is mounted makes it possible to quickly clean the apron by turning it past an inclined scraper at one end. In actual usage sand or sawdust is placed on the upper run of the dropping board. The patent is No. 1,181,204.

A poultry feeder and exerciser of the type operated by a bait bar has been invented by George K. Gillette, Pembroke, Massachusetts, the patent rights having been acquired by the Watson Manufacturing Company, Lancaster, Pennsylvania. The bait bar is arranged horizontally, and the valve that releases the grain from the feeder is opened by the downward pecking of the poultry on the bar. The rod holding the bait bar is suspended from a spiral spring contained within a tube extending part way down thru the grain receptacle. A slotted valve tube, open at its bottom end is telescopically arranged so that the slotted

Patent Your Ideas



Inventions bring fortunes when protected by good patents.

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\$1 per 15
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BABY CHICKS and EGGS

White and Brown Leghorns, \$9 per 100; Barred, White and Buff Rocks, White and Buff Wyandottes, Single and Rose Comb Reds, Black Minorcas, Buff Orpingtons, \$11 per 100; Light Brahmas, White and Black Orpingtons, \$12 per 100. ALL EGGS \$1 per 15, \$4.50 per 100. Eggs that hatch, chicks that live, from pure bred stock, bred for heavy egg production. Catalog free. Safe arrival guaranteed.

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Chicks

\$9 and \$11
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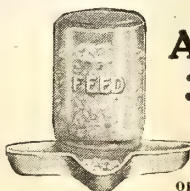
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To introduce our goods we will send 1 these three labor-saving sanitary "Star" pans to any address in the United States for 25c, postpaid. They are made of heavy, rust-proof material and will fit any Mason jar. Order today. Send for catalog describing our Feather Brooders, Automatic Feeders and other poultry appliances.

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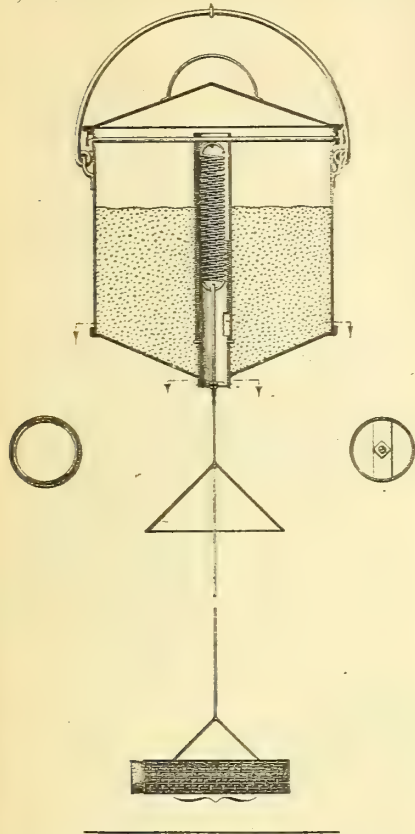
CHICAGO, ILL.



ORDER

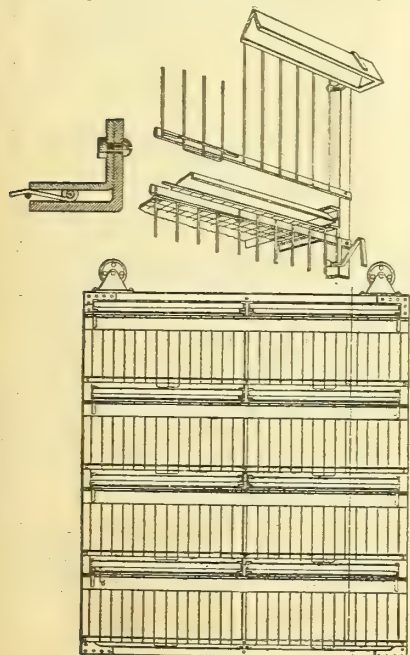
TODAY

portions will be uncovered and grain released and scattered when the poultry peck at the bait bar. The patent is No. 1,180,640.



A poultry feeder and exerciser, patented April 25, 1916, by George K. Gillette, Pembroke, Mass. Patent No. 1,180,640.

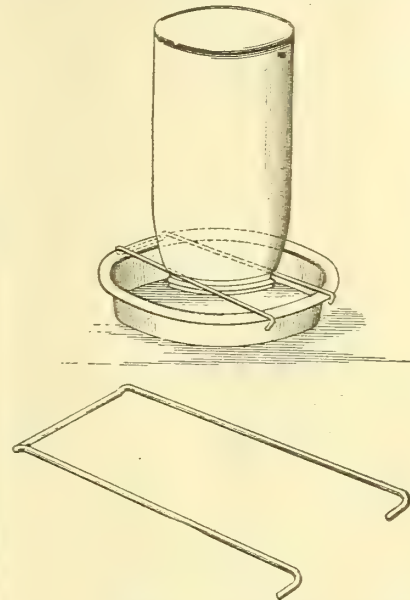
A new poultry coop or crate for display or exhibition purposes, which permits the care of a large number of fowls in a comparatively small space is the subject of a patent issued to the Union Steel Screen Company, Albion, Michigan, as assignees of George E. Dean, of the same city. The structure is also designed



Poultry coop or crate, patented April 18, 1916, by G. E. Dean, Albion, Mich. Patent No. 1,179,703.

as a battery feeder for milk fed chickens. The coop can be knocked down for transportation, as the various panels and frame members are removably mounted. The patent is No. 1,179,703.

A poultry fountain may be improvised from an inverted jar and a pan by means of a wire yoke approximately U-shaped in plan, having its opposite end portions bent to engage the rim of the pan, while the neck of the jar is supported between the yoke. The device is the invention of Philip A. Tessier, Irvington, N. J. Patent No. 1,181,045.



Poultry fountain, patented April 25, 1916, by P. A. Tessier, Irvington, N. J. Patent No. 1,181,045.

WHITE LEGHORNS 258 and 282 OFFICIAL RECORDS	READ'S Pedigreed Leghorns, Reds and Wyandottes Hatching Eggs Cocks and Cockerels Hens and Pullets Trios and Pens Be sure to write us before placing orders, stating your wants fully. Prices reason- able. WRITE TODAY THE READ POULTRY FARM Watervliet, N.Y.	WHITE LEGHORNS 248 and 288 CYPHERS' RECORDS WH. WY- ANDOTTES 274 and 282 OFFICIAL RECORDS
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Astle's Quality Buff Rocks
Chicago and State Show Winners. Excellent laying strain. Write for mating list. Eggs half price after May 15th. Mention Am. Poultry Journal.
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into the "growing-room" of your baby chicks. They are precious capital and protecting their health safeguards your profits. Germs of white diarrhea—the deadliest enemy of the baby chick—often lurk in brooders that seem to be clean. Make yours safe and insure thrifty husky youngsters. Paint the brooders inside and out with

CARBOLA
The Disinfecting White Paint

A snow-white mineral paint combined with the most powerful germicide known to science yet absolutely harmless to the chicks. Destroys germs of roup, canker and other fatal diseases. Kills lice, mites, nits, fly-eggs, etc. Comes in powder form and is ready to put on with brush or sprayer, as soon as mixed with water. No straining or bother of any kind. Paints and disinfects at one operation.

Use It Instead of Whitewash

Will not flake, peel or blister. Keeps all poultry houses, cellars, dairies, stables, etc., clean and sanitary. Endorsed by Experiment Stations. Used by largest and most careful breeders and dairymen. Your dealer will supply you. If not, send us his name and your order. Remember, there is nothing that is "just as good". Satisfaction guaranteed.

10 lbs. (10 gals.) for \$1 and postage. 20 lbs. (20 gals.) for \$2 delivered free. 50 lbs. (50 gals.) for \$4 delivered free.

A trial package, enough to paint and disinfect 250 square feet, sent by parcel post for 25 cents.

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Simply PERFECT and perfectly SIMPLE is the universal VERDICT of EXPERT and NOVICE alike. Every possible TEST and COMPARISON INVITED. Failures unknown. Sold on money-back basis. REFUSE TO DEAL elsewhere ON ANY OTHER TERMS. Complete set \$4.50. Removers alone \$3.00. Demonstrating agents wanted. ILLUSTRATED LITERATURE giving full particulars FREE.

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Faultless Automatic Feeder

Smaller Sizes
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**16 Quarts
Half-Bushel**



This "Faultless" feeder feeds any kind of grain, either mixed or separate. Rotary pendulum motion, absolutely adjustable and cannot clog. It represents the biggest value ever offered in automatic feeders. Furnished complete, including cover and bail, at the following ridiculously low prices, made possible only by our enormous output:

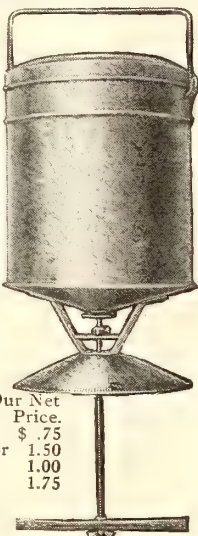
No.	Capac.	Retail Price.	Our Net Price.
151	5 Qt.	\$1.00	\$.75
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153	1/2 Bu.	1.50	1.00
154	1 Bu.	2.00	1.75

*Note—No. 152 packed two in box and not sold singly.

Send for complete catalog of fountains, trapezes, feather brooders and other poultry appliances.

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**CHICK TIME HINTS AND HELPS FOR BEGINNERS.**

Gleaned from "Poultry," England.—Color of Day-Old Chicks.—Nest-Boxes for Sitters.—Selecting Brood Hens—Period of Incubation—Coops for Hens with Chicks.

Sellers of eggs for hatching, and of day-old chickens, are often accused of having sent to the purchaser birds or eggs not of the breed or variety ordered.

This is the result of a lack of knowledge on the part of the purchaser of the appearance of newly-born chickens.

There is a great difference between the color of a chicken's fluff and legs and its adult plumage.

To take the self-colored varieties first: All chickens of black fowls, no matter of what variety, are black and white, or black and cream-like tinge.

If a black chicken is to develop into a bird of a fine metallic color it should not be entirely black at birth.

Very often there is less black than white about a chicken from black-plumaged parents, and if there is a good amount of white on the breast and about the head the adult feathering should be satisfactory.

But white is always found in the flight feathers of chickens of black fowls, and frequently on the neck and on the under fluff.

In the white varieties that have yellow shanks the chickens come of various degrees of creaminess or faint lemon tint; but if a white chicken from a white-plumaged and legged fowl has bluish shanks that tinge never clears.

Never discard a White Rock chicken that is of a blue-gray tinge of fluff. Such a bird invariably gives less trouble with

sappiness—that faint primrose tone that almost all white-plumaged youngsters show when growing.

Of course, with white chickens the heavier the variety they are, the more "chubby" or "cobby" they look at birth.

The chickens of buff fowls with white legs come with either a yellow or buff cast, and have reddish-yellow legs, which gradually turn to the white color required.

And if such chickens have a little black or white in flight feathers do not be alarmed. They are frequently replaced by feathers of the correct color.

The chicken of barred fowls is not a bird of marking. It has often black on its back and is of a dull drab and white or creamy mixture, not unlike that of a chicken from black fowls. And usually the color or marble grey is much darker in the pullets than the cockerels.

When the barring appears it generally comes first on the shoulders and then from the throat downwards.

The Barred Rock chicken, too, has a grey patch a little larger than a sixpence on its head—that is a chicken that will be well marked when fully "furnished" or feathered.

Chickens of Columbian Wyandottes and Light Brahmas and other fowls that are white with black markings are frequently pale yellow throat, but they often have a small black spot on top of the head and sometimes a little grey on the back.

To distinguish the chickens of fowls known as the black red kinds is a rather difficult matter to the novice, since they are somewhat alike in appearance.

The varieties that come under the heading of black reds—in which the hens are mostly brown and the cocks red and black—are the partridges of all breeds, Black Red Modern and Old English Game, Brown Leghorns, and Indian Game.

Chickens of such varieties are very beautiful. There is a band or stripe of rich brown from the junction of the skull and beak, right over the head and back to the tail, with fainter and less broad stripes on either side, and the other plumage has the appearance of being lightish brown or fawn.

So long as the color under the foot is yellow it is better for chickens of yellow-legged varieties not to be born with yellow shanks.

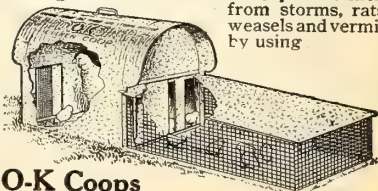
If this happens it is almost always the case that the color turns pale. Willow or slightly green or dark legs are what are required at first.

But, on the other hand, if chickens from willow-legged birds come with yellow shanks it is a sign that all will be well when the bird reaches an adult stage.

The legs of Black Orpington chickens

Save Your Chicks

Give them plenty of fresh air, sunshine and fresh grass at the same time protect them from storms, rats, weasels and vermin by using

**O-K Coops**

Made of galvanized steel. Portable, easily cleaned, roomy, light, sanitary, durable. Can be closed at night or in storms. Pays for itself in chicks saved. Made in four styles. Satisfaction guaranteed or money back. We also make a full line of feeders and non-freezable waterers. Full particulars and prices sent free. Write today.

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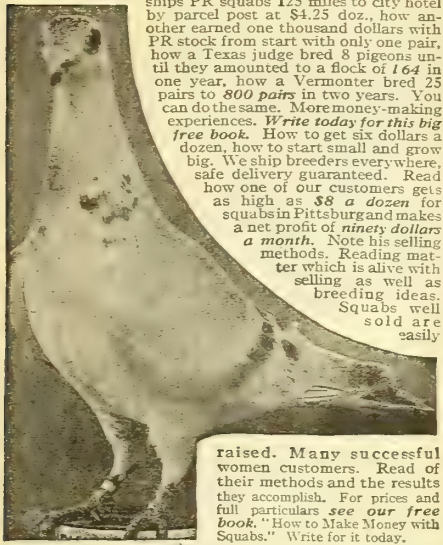
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for 1916, telling how a Mich. hired man now works for himself breeding PR squabs and selling for \$3 doz., how an Ind. man sold 4652 PR squabs for \$1265 in 1915 and cured himself of desire to leave the farm, how a S. C. man ships PR squabs 125 miles to city hotel by parcel post at \$4.25 doz., how another earned one thousand dollars with PR stock from start with only one pair, how a Texas judge bred 8 pigeons until they amounted to a flock of 164 in one year, how a Vermonter bred 25 pairs to 800 pairs in two years. You can do the same. More money-making experiences. **Write today for this big free book.** How to get six dollars a dozen, how to start small and grow big. We ship breeders everywhere, safe delivery guaranteed. Read how one of our customers gets as high as \$8 a dozen for squabs in Pittsburgh and makes a net profit of ninety dollars a month. Note his selling methods. Reading matter which is alive with selling as well as breeding ideas. Squabs well sold are easily



raised. Many successful women customers. Read of their methods and the results they accomplish. For prices and full particulars see our free book, "How to Make Money with Squabs." Write for it today.

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Licecil
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Prove It Yourself

Put a lousy hen in a box, pour a little Licecil down side of box. Lice will soon appear on outer surface of feathers and fall off dead. Treat poultry house with Licecil and you get same results. The free "Seeing Is Believing," circular tells just how. Order Licecil today. Bottle 50c, 3 for \$1.25.

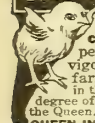
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Producing large hatches of strong, lively chicks, able to live through the uncertain period of the first few weeks and develop into vigorous fowls it pays to feed and raise. Many farm folks tell us that the Queen is exceptional in this respect. A perfect Regulator and the proper degree of moisture required are two of the advantages of the Queen. Not a cheap incubator, but cheap in the long run.

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Natural Hen Incubator \$3



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J. M. Perla, Ill., writes: "It is the best thing I ever saw for hatching chicks."

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Thousands of other testimonials. Agents Wanted.

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MAKE HENS LAY

By feeding raw bone. Its egg-producing value is four times that of grain. Eggs more fertile, chicks more vigorous, broilers earlier, fowls heavier, profits larger.

MANN'S LATEST MODEL Bone Cutter

Cuts all bone with adhering meat and gristle. Never clogs. 10 Days' Free Trial. No money in advance.

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F. W. Mann Co., Box 56, Milford, Mass.

are, too, not black at birth: they are somewhat on the mottled side—black at the hocks and, lower, pinky-yellow.

The chickens of mottled fowls, such as Anconas and Houdans, are very similar in appearance—black and white; but, of course, the latter have the curious "lump" on the head, and the fifth toe.

There is little difference between the appearance of Rhode Island Red and Buff Orpington chickens; but generally the former show more white and have a patch of lightish brown on their backs.

It is quite easy to distinguish Salmon Faverolles chickens, since from the first they have feathered legs and the muffling at the throat. They are generally creamy or white, or with a tinge grey in flights.

While the first body covering of a chicken may or may not be called plumage, it is shed and replaced as if it were such. The method of moulting, however, is peculiar to the downy coat.

The chick, when it comes from the shell, has pin feathers for flights. In two or three days it develops pin feathers that will become main tail feathers. The down grows longer, and shafts develop on certain areas of the body.

Within a few days these shafts burst open, allowing the web of the feather to spread; but the down often clings to the tip of the opened feather. The ragged appearance to be noticed on two or three weeks old chickens is due to this clinging of the down tips.

The first body feathers to appear are those at the throat, just above the crop. From this point a line of feathers extends down each side of the crop and breast. When this line begins to show a tuft appears on each thigh and a line down the spine.

The feathered areas increase in size as the bird grows older, so that at the age of four or five weeks they have grown together, and the healthy chicken looks to be well feathered.

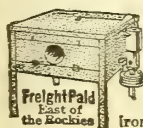
The wings and back are covered, the feathers growing well up the back of the head, and the breast is protected, except a small space over the crop.

The rear of the body is covered by the flights, the feathers on the thighs, and a tuft near the rear of the keel bone. The legs are encircled by a ring of feathers just above the shank. In short, the chicken's body is protected by the feathers at every vital point.

There is generally a new growth of feathers at eight weeks and again at thirteen weeks. At these times the body is covered with pin feathers, but this does not prove that these feathers replace others which are shed.

From the age of thirteen weeks to just about maturity (five to seven months) chickens do not cast their feathers. They then shed all their feathers, and assume a more mature dress, the pullets getting their full plumage.

Should the hen be set outside, the front of the box must be covered with a sack, as no hen will sit well if not fairly warm; and the bottom of the coop or box should be of stout half-inch mesh wire to keep out rats. A sheltered spot should be chosen.



140 EGG INCUBATOR CHICK BROODER

Both are made of Both \$10
Calif. Redwood.
Incubator is covered with asbestos and galvanized

Iron; has triple walls, copper tank, nursery, egg tester, thermometer, ready to use. 30 DAYS' TRIAL—money back if not O.K. Write for FREE Catalog Now.

IRONCLAD INCUBATOR CO., Dept. 49 Racine, Wis.



K-D Leg Bands

fit and suit US best of any.

Yours truly,

Mrs. Hen & Family.

Drop us a card today for free samples and prices.

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Dept. 502 Battle Creek, Mich.

Rudy's Perfection (White Wyandottes)

My strain is noted for its egg production and exhibition qualities. My customers all over the country laud my square deal business methods. I guarantee to give you extra good value for every dollar you pay me and if you are in the market for line bred birds I will be glad to tell you just what I have for sale.

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Rocks, Reds, Orpingtons and Wyandottes

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10 different colors; price, postpaid, 12-15c, 25-25c, 50-40, 100-65c.

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Eggs for hatching from Chicago and Illinois State Fair Winners. Mating list free.

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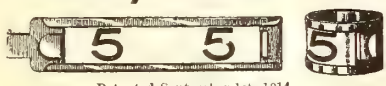
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Eggs for Hatching
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"With The Lay Bred In Them"

Husky, vigorous, farm-grown birds, bred from many generations of pedigreed layers

EGGS—CHICKS—STOCK

of superior quality at moderate prices. Bred for business—sure profit-payers. Official Laying Competition records prove it!

We produce on our own plant every bird and egg we sell so can guarantee satisfaction to each customer.

FREE CATALOG will set you right on Leghorns. Write for it today!

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26 1/2 c.
A ROD

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Buff Plymouth Rocks
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Eggs half price balance of the season
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Tremper's Perfection Blue Barred Rocks
Eggs. Winners at World's Fair, Chicago, and Springfield. Catalogue free.

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Each hen must have a box to herself. This box should be a foot wide and sixteen inches deep and high.

The box should have a hinged door opening from about two inches from the top right to the bottom, and ventilation holes should be bored in the two inches above the door.

The top, back, and sides of the sitting-box should be solid. And besides the holes in the door, one or two may be bored in each side just under the top if the box is a separate one.

Thoroughly whitewash the interior of the box, using a pump if necessary to get the liquid into the corners; and use the wash while it is hot.

The best place in which to keep sitting hens is in a quiet, darkened, warm, well-ventilated room, barn, or shed free from draughts.

Test all eggs on the fourteenth day, and turn out all infertiles.

By doing this, where three or four or more hens are set at the same time, it will in all probability enable one hen to be set free by all the fertiles being equally divided into clutches.

A good broody hen that has sat a fortnight will readily go another three weeks, so that the hen or hens left over after the testing may be given a fresh lot of eggs.

The best kind of hen to select for sitting is one of good size and quiet disposition—one that will allow herself to be handled without getting too excited.

If she is short-legged, so much the better, as such a hen is generally less liable to scamp during her period of strict confinement.

The Sussex, the Wyandotte, the Orpington, and the Plymouth Rock are good sitters and careful mothers.

The Dorking, owing to its extra claw, is not to be recommended for sitting purposes. It very often on this account tramples the chickens to death, both in the nest and in the run.

Feather-legged fowls, such as the Brahma, Cochins, and Langshans, are often clumsy, and are apt to smother or hang the chickens while hatching.

They do, however, generally become broody early, and they sit extremely well.

A splendid fowl for broodiness is the Silkie-Wyandotte. This means a Silkie cock on White Wyandotte hens.

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A GREAT BIG HAND GRINDER

that will save its cost several times a year and will furnish one to two bushels per hour of fresh ground corn, oats, peas, dry bone, oyster shells, nut shells, dry stale bread, etc., for poultry feed, or will grind table meal for family use.

A child can operate it. Thousands sold annually. Shipping weight 40 lbs. We also include a full line of Power Feed Mills, Samson Wind Mills, Gasoline Engines, Hardware Specialties. Ask for Catalogs, stating line in which you are interested.

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S.C.B. Minorcas


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All about Incubators, their prices and operation. All about poultry houses and how to build them. It's an encyclopedia of chickendom. You need it. Only 15 cents. Your money back if not satisfied.

Have Just Issued a **Special Price Egg Catalog** for June that will interest anyone who wants the best at lowest possible prices. Send for one; it's free for the asking. Remember that thousands of the best winter layers and breeders are hatched every year during June and July.

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for
Hatching



All Leading Varieties Sold at a Great Reduction including the famous Colored and Pure White Runner Ducks, Silver Campines, Black Orpingtons, Blue Andalusians, Black Spanish, all families of the Rocks, Wyandottes, Rhode Island Reds and Leghorns. We have sold over 150,000 hatching eggs with orders coming in every day. Everybody knows about the Berry's Poultry Farm, the place where a "square deal" is guaranteed. People like to order where they know that they will get their money's worth. Write for a **Special Summer Price List** which makes extremely low prices on 40 distinct varieties of thoroughbred fowls, also reduced prices on disinfectants, insect powder, foun. ins. poultry remedies, all kinds of supplies, everything of the best quality. **Special premiums offered free with purchases.** Don't forget the big 144-page book "Profitable Poultry," the Encyclopedia of Poultry Information, also the famous "Indian Runner Duck Culture Book," the Encyclopedia of duck information. These books mailed free for a limited time.

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with **Pasteur Laboratories Rat Virus**
NOT A POISON
PASTEUR LABORATORIES AMERICA
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EASY TO USE

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FREIGHT PAID \$5.00

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UNITED STATES POST OFFICE

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March 7, 1916.

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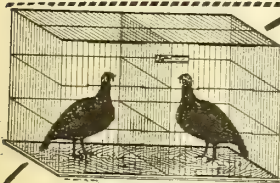
Last season we bought one of your \$10 Single Comb settings and had good success. We raised two cockerels and three pullets. One of the cockerels was only fair. The other scored 94 and the pullets 96, 94½ and 93½ by Judge Chas. McClave at our recent show. I doubt if this 96-point pullet has an equal in the U. S.

I am inclosing my check, etc.
(Signed) J. A. SHANER,
Asst. P. M.

WILL YOU Take a Chance?
Illustrated Particulars Free.

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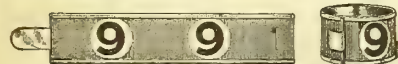


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Keipper Collapsible Coops

Made entirely of galvanized wire. Fold perfectly flat. Easily stored. Easy to set up. Shipped by parcel post. Outfits rented to bench shows. Write for catalog and money-saving prices.

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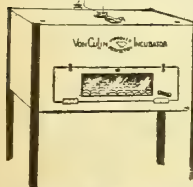
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For the past nine years I have devoted my time towards perfecting Reds, and according to reports received from my customers I'm able to produce Reds fit to win at any show. All special pens are trapped. Get a star here and then you'll know where the good ones come from. Best eggs \$5.00 for 15.

Remember I have no other breed. Write your wants.
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DISCOVERED

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Price single tester.....\$1.00
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Post paid. Free circular.

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COLUMBIAN WYANDOTTES

Hatching Eggs—Special mating, \$10.00 per 15; five yards, \$5.00 per 15, \$9.00 per 30. Write wants. Address

Ralph Woodward, Box 200, Grafton, Mass. Pres. National Columbian Wyandotte Club.

Pullets of this cross are careful and reliable sitters, and, of course, are larger than pure Silkies.

With the cross-bred hens put a Silkie and a White Wyandotte male in alternate years. This will give the necessary qualities—soft fluffy plumage, a frequent desire to sit, and good size.

Hatch the chicks for a good "broody" strain about early April. The bird should then lay in November and be ready for incubating early broods.

To induce broodiness, force the hen to complete her clutch of eggs quickly.

Do not excite the hen by disturbing her too often while the chickens are hatching—that is, about the twenty-first day.

It is, however, advisable to remove the broken shells and all dry and fluffed-out chickens twice or thrice during the day.

If you have an incubator running, place the dry chicken in the drying box.

(Continued on Page 896)

STATEMENT OF THE OWNERSHIP, MANAGEMENT, CIRCULATION, ETC., REQUIRED BY THE ACT OF CONGRESS OF AUGUST 24, 1912,

OF AMERICAN POULTRY JOURNAL PUBL. CO., published monthly, at Chicago, Illinois, for April, 1916.

State of Illinois, County of Cook, ss.

Before me, a Notary Public, in and for the State and county aforesaid, personally appeared James W. Bell, who, having been duly sworn according to law, deposes and says that he is the Editor of the AMERICAN POULTRY JOURNAL, and that the following is, to the best of his knowledge and belief, a true statement of the ownership, management (and if a daily paper, the circulation), etc., of the aforesaid publication for the date shown in the above caption, required by the Act of August 24, 1912, embodied in section 443, Postal Laws and Regulations, printed on the reverse of this form, to-wit:

1. That the names and addresses of the publisher, editor, managing editor, and business managers are:

Publisher—AMERICAN POULTRY JOURNAL PUBL. CO., 542 So. Dearborn St., Chicago, Ill.

Editor—James W. Bell, 542 So. Dearborn St., Chicago, Ill.

Managing Editor—Prince T. Woods, Silver Lake, Mass.

Business Manager—James W. Bell, 542 So. Dearborn St., Chicago, Ill.

2. That the owners are: (Give names and addresses of individual owners, or, if a corporation, give its name and the names and addresses of stockholders owning or holding 1 per cent or more of the total amount of stock.)

James W. Bell, 542 So. Dearborn St., Chicago, Ill.

Henry G. Eisert, 542 So. Dearborn St., Chicago, Ill.

H. M. Bell, Congress Park, Ill.

B. M. Eisert, 1455 Balmoral Ave., Chicago, Ill.

3. That the known bondholders, mortgagees, and other security holders owning or holding 1 per cent or more of total amount of bonds, mortgages, or other securities are: (If there are none, so state.)—None.

4. That the two paragraphs next above, giving the names of the owners, stockholders, and security holders, if any, contain not only the list of stockholders and security holders as they appear upon the books of the company but also, in cases where the stockholder or security holder appears upon the books of the company as trustee or in any other fiduciary relation, the name of the person or corporation for whom such trustee is acting, is given; also that the said two paragraphs contain statements embracing affiant's full knowledge and belief as to the circumstances and conditions under which stockholders and security holders who do not appear upon the books of the company as trustees, hold stock and securities in a capacity other than that of a bona fide owner; and this affiant has no reason to believe that any other person, association, or corporation has any interest direct or indirect in the said stock, bonds, or other securities than as so stated by him.

5. That the average number of copies of each issue of this publication sold or distributed, through the mails or otherwise, to paid subscribers during the six months preceding the date shown above is — (This information is required from daily publications only.)

JAS. W. BELL,

Business Manager.

Sworn to and subscribed before me this Twenty-third day of March, 1916.

(SEAL) HENRY G. EISERT,

Notary Public.

(My commission expires March 19, 1918.)



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won 2nd cockerel, 3rd and 4th pullets at Indianapolis; 1st and 4th cockerels, 1st and 3rd pullets, at Fort Wayne, Ind. Mating list. No stock for sale.

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None better made. 25-20c, 50-35c, 100-65c, 200, \$1.00, 500, \$2.25.

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Big Catalog and Mating List Free.
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Otherwise, put them in an ordinary traveling basket in which is a hot-water bottle.

Place the basket in front of the kitchen fire and cover the chicks lightly with a piece of flannel until the hatch is complete.

In the meantime get ready the coop in which the hen and her brood are to be placed.

When all is ready lift the hen off her nest, give her a good feed of hard grain, and then put her in the clean coop.

After she has settled here quietly, place the chickens under her and leave mother and young to themselves for twenty-four hours.

Do not on any account give chickens any kind of food until they are well over twenty-four hours old. It is warmth, not food, that a chicken requires for the first day or two of its existence.

Watch the mother hen at this period, and see how she broods her young. She sits close and flat, with her breast right on the floor of the coop, and her wings well spread.

She does not at this time "cluck," but makes a soft crooning sound, as if she were encouraging her charges to sleep.

The periods of incubation differ somewhat, and are as follows:

Fowls—Twenty-one days; strictly new-laid eggs, one day less; stale eggs, one day more.

Ducks—Pekin, Rouen, Aylesbury, and common duck, twenty-seven to thirty; Muscovy, twenty-eight to thirty-five — more frequently thirty-four.

Geese—Thirty to thirty-one.

Turkeys—Twenty-eight to thirty days.

When dealing with the broody hen we arrived at the stage where she had brought off her brood and had been transferred with her charges to the rearing coop.

Never forget, warmth and dryness are absolutely essential to the successful raising of chickens. Never, therefore, let a young bird get chilled or very wet, if steady progress is to be maintained.

It will, therefore, be gathered how important it is to have a suitable coop in which to put the hen and her brood.

The coop must be well made, be water-tight, and be kept clean. Those in the open should be made so as to prevent rain driving directly into them; while they must have a wooden floor.

There are all sorts and sizes of coops; but whatever style is adopted the coop must be roomy, since it will be the hen's and chickens' only home and protection for several weeks.

When coops, no matter of what kind,

are placed under shelter, such as a dry barn, wooden bottoms are not absolutely necessary; still they are better with them.

The floor should be made of good stout wood, be well tarred underneath, and be fitted with scantling (two pieces) running from front to back, so as to permit of the bottom being an inch or two off the earth.

Another important thing to consider in outdoor rearing is the position of the coop. Possibly the best situation is in an open-fronted shed facing south.

So placed, the coop and its inmates are very little affected by sudden changes of wind, they get the benefit of any sunshine there may be, and may easily get away from rain.

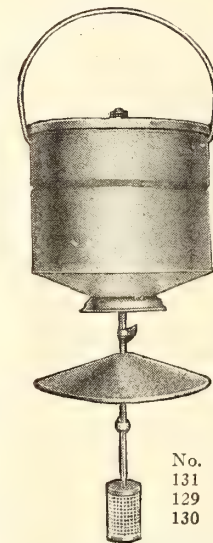
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The Original



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Birds peck at grain in bait carrier, swinging pendulum and grain drops from cup under hopper to deflector and then on ground.

No.	Capacity.	Retail Price.	Our Net Price.
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130	20-qt.	2.50	2.00

Send for complete catalog of fountains, trapnests, feather brooders and other poultry appliances.

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S. C. White Leghorns White Wyandottes
S. C. Rhode Island Reds Buff Orpingtons

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Leghorns—Highest Award North American Egg-Laying Contest, five hens laying 1139 eggs. 100 pens competing. English cockerel sired hen with official average of 314 eggs. Reds—Highest Award in their class, North American Contest, five hens laying 1043 eggs. 209 average. Highest official Red record we know of. White Wyandottes. Missouri Contest. Our ten laid 2006 eggs, one laying 265 eggs.

Write today for Free Book, "The Story of the 200-Egg Hen," full of valuable information.

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BEAUTIFUL BLUE AND Partridge Orpingtons. This ad worth \$1.00 with each setting. Write today for catalog. Dr. Prudhomme, Desk A, Thurmont, Md. 5-7

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WHITE AND BLACK POLISH, winners Cleveland, Indianapolis, Colium and Milwaukee. Eggs \$4 for 15. List free. Theo. Hewes, Indianapolis, Ind. 4-6

RHODE ISLAND REDS.

"LEMBKE'S REDS" known by their winners. Good as the best. Better than the rest. Safety first. Eggs for hatching—either comb. Anna Lembke, Salt Lake City, Utah. 4-6

MY SINGLE COMB REDS, winners at Evansville, Louisville and Mt. Carmel. Great layers. Mating list free. Philip A. Seifert, Mt. Vernon, Indiana. 3-9

BABY CHICKS AT SPECIAL prices from Rhode Island Reds that averaged over fifty per cent egg production all winter—the only kind that pay. Both combs. Anderson's "Penn View" Farm, Pattenburg, N. J. 3-7

ROSE COMB REDS. Great laying strain. Eggs 5c up. Chicks 10c up. Circular. Albert Daily, Frankfort, Ohio. 6

ROSE COMB RED eggs for you. Fertility guaranteed. Prices right. John Heuser, Depauw, Ind. 4-6

S. C. REDS—Fine dark red cockerels \$3. Eggs for hatching. Stock for sale. Send for mating list. Mrs. J. C. Lower, Worden, Illinois. 5-6

EGGS FROM WINNING pens of R. C. Rhode Island Reds, \$1.50 and \$2 for 15. Chiles' strain Partridge Rocks \$3 for 15. John Wolgast, Danforth, Ill. 4-6

BIG SCORED DEEP brilliant R. C. Reds, long back, low tail, yellow legs, nice combs, red eyes. Eggs 25 cents each. Highland Farm, Hedrick, Iowa. 4-6

RHODE ISLAND WHITES.

THE GREATEST RHODE ISLAND White farm. Eggs reduced. Utility, 75 cents per 15. Pens, \$1.50 per 15. Also baby chicks. Rose and Single Comb. Stock, \$6.00 per trio and \$10.00 per pen. Henry Elchelmann, R. 4, Waterloo, Ill. 6-8

HEADQUARTERS FOR ROSE Comb Rhode Island Whites. I am the oldest breeder of this breed. Eggs and stock for sale from this wonderful laying strain. Free catalog. C. A. Foster, Colonial Poultry Yards, Akron, Ohio. 4-6

BARRED ROCKS.

BARRED PLYMOUTH ROCKS—Pure bred E. B. Thompson's Ringlet strain. 26 eggs, \$1.50; \$4.50 per 100. Address Ben Custer, Route 9, Madison, Ind. 6-7

ONE YEAR OLD RINGLET Barred Rock hens, \$2.00 each. Males, \$3.00 up. Eggs at half price. Brookwood Poultry Farm, Cary Station, Ill. 6

THOMPSON'S RINGLET STRAIN of Barred Plymouth Rocks, 30 eggs \$2.00; 100, \$5.00. Transportation prepaid. Frank Moore, Madison, Ind. 6

BARRED ROCKS—RINGLETS. Thompson's winning line direct. Eggs exhibition matings, \$3 per 30. Breeding stock sale now on. Write for special list. Satisfaction guaranteed. F. L. Gould, Table Grove, Ill. 6-7

PURE RINGLET BARRED Rocks—Eggs from stock direct from Thompson at reasonable prices. C. F. Youngman, Box B, Wautoma, Wis. 5-6

ROSEMOUNT BARRED ROCKS—Ever better; Cleveland first prize winners. Illustrated catalog now ready. Let's get acquainted. Franklin, Pa. 2-7

THOMPSON'S BARRED ROCK eggs for hatching, \$1.50 for 15. Clifford Edgerton, Tunnel, N. Y. 4-6

BARRED ROCKS—DAY-OLD CHICKS to six weeks chicks. Stock, eggs. Catalog. Failing Poultry Farm, Lafargeville, N. Y. 4-6

DON'T LOOK FOR large Barred Rock advertisements. If you want hatching eggs that produce winners and layers, you had better get our circular. Our Barred Rocks have great winning records. Eggs, \$1.50 to \$5.00 per setting. Cockerel line only. Geo. A. Coffman, Rushville, Ill. 4-6

BARRED ROCK BREEDERS—Learn more about your variety, subscribe for National Barred Rock Journal, Union City, Mich., issued monthly and devoted exclusively to the Grand Old Breed. 50c a year, 3 years \$1, sample 5c. 3-16-1yr

EGGS, 100, \$4.50; setting, \$1.00. Mammoth Barred Rocks, weight to 16 lbs. Howard Irvin, Polo, Ill. 3-6

BRED-TO-LAY BARRED Rock. Eggs for hatching. John Watt, Forrest, Ill. 4-6

WHITE PLYMOUTH ROCKS.

WHITE ROCKS—Fishel direct. Eggs and stock. Reasonable. George Boye, St. Peter, Ill. 6-9

WHITE ROCK EGGS from best laying strain. \$1.50 per 15; \$6 per 100. Mrs. Gilbert Luyster, Franklin, Ind., R. 4. 4-6

40 WHITE ROCK hens for sale. Fishel strain direct. 15 eggs, \$1.00; 50, \$2.00; 100, \$4.00. Henry Heitkamp, New Bremen, O. 6

WHITE ROCK YEARLING pullets, \$1.50 and \$2.00 each. Exceptional quality. Woodford Poultry Farm, Route 10, Cincinnati. 6-8

EUGENIC WHITE ROCKS—Fine laying strain, extra large. Eggs, \$1.50 and \$2 per 15. Dr. J. A. B. Srofe, Leesburg Ohio. 4-6

COLFAX WHITE ROCKS—The strain of pure worth. Eight-week-old chicks in hundred lots. Write today. T. F. Richardson, "Colfax," Evanston, Ill. 6-8

"FISHEL" WHITE ROCKS direct. Farm raised. Prominent winners under prominent judges. In health, constitutional vigor, and Standard requirements they will please you. Eggs, \$2 per 15. Eggs from pens headed by Fishel males, \$3 per 15. Eggs from one special mating of "top-notchers," \$5 per 15. Write me. Booklet free. Plummer McCullough, poultry judge, Mercer, Pa. 12-15-1yr

BUFF PLYMOUTH ROCKS.

BUFF ROCK EGGS for sale—From select birds, \$1.50 per 15. Dan Forth, Fenton, Ill. 5-6

BUFF ROCKS—HIGH class stock with the "Winter egg habit." Order eggs now. Mating list free. Marion Culver, Glencoe, Ill. 4-6

COLUMBIAN PLYMOUTH ROCKS.

COLUMBIAN PLYMOUTH ROCKS—Enslin strain. T. J. Enslin, Hackettstown, N. J. 1-16-1yr

PARTRIDGE PLYMOUTH ROCKS.

AMERICA'S PROVEN CHAMPION Partridge Rocks and Bronze Turkeys. See our adv. on page 843. 5-15-tf

PARTRIDGE PLYMOUTH ROCKS. Eggs now \$1.25 per 15, prepaid. Choice cockerels and laying pullets, \$2.00; 3 for \$5.00. Hacker Poultry Co., Marissa, Ill., Box A. 4-6

PARTRIDGE PLYMOUTH ROCKS—Eggs from prize winners. Paul Wurtzel, Dept. 5, Freeport, Ill. 2-6

PARTRIDGE ROCKS—Good as grows. Beauties. Winners. 15 eggs \$2. Jim Healey, St. Charles, Ill. 4-6

GLENWOOD STRAIN PARTRIDGE Rocks. Winners at Boston and Madison Square Garden. Breeding pens and cockerels for sale at prices within reach of everyone. Write for mating list today. Glenwood Farm, West Mansfield, Mass. 4-6

GOLDEN BARRED ROCKS.

GOLDEN BARRED ROCKS. 15 eggs, \$1.50. A. Sitz, Humphrey St., Logansport, Indiana. 6

PLYMOUTH ROCKS—SEVERAL VAR.

BUFF AND WHITE ROCKS. Eggs at farmers' prices. Buff baby chicks. Rachel Sheppard, Pearl, Illinois, R. 1. 3-6

RED SUSSEX.

COBURN'S RED AND SPECKLED Sussex. Biggest winners at New York and Chicago Club shows. June 1st, breeders half price. Great reduction on eggs. Red Sussex Farm, St. Clair, Mich. 2-16-tf

RED SUSSEX EGGS for hatching: quality Mahogany Reds, carefully mated; many first prize winners. Send for descriptive Mating List. Eggs \$5 and \$3 per 15. Zeigler & Eldridge, Plymouth, Wis. 1-6

RED SUSSEX—Exhibition and utility cocks, hens, pullets, \$2 up. Parker, 194 Young St., Winnipeg, Canada. 5-7

SPECKLED SUSSEX.

SPECKLED SUSSEX. Choice stock priced reasonably. Rev. W. Berberich, Groton, New York. 11-15-tf

SUSSEX.—SEVERAL VARIETIES.

ENGLISH RED AND SPECKLED Sussex. This ad worth \$1.00 with each order. Write today for catalog. Dr. Prudhomme, Desk A, Thurmont, Md. 5-7

SPANISH.

FOR SALE—WHITE FACE Black Spanish eggs, 15 for \$1.50; 30 for \$2.50; 100 for \$5.00. Good stock for sale. Louella E. Jaqua, Portland, Indiana. 3-6

BLUE WYANDOTTES.

BLUE WYANDOTTES—Bred from imported stock. Eggs, \$3.00 for 15. J. A. Gauntt, Vincennes, Ind. 5-6

BUFF WYANDOTTES.

"GOLDCROFT" BUFF WYANDOTTES—Winners of State Meet Club cup, Indianapolis, January, 1916. Blue ribbons at other good shows. Eggs, \$2 to \$5 per setting. Satisfaction guaranteed. C. R. Montgomery, South Bend, Ind. 4-6

COLUMBIAN WYANDOTTES.

COLUMBIAN WYANDOTTES that showed their superior quality by winning more first, second and third prizes this season at Chicago, Minneapolis, Winnipeg and Minnesota State Fair, than all my competitors combined. Mating list free. Geo. A. Kersten, Washburn Park, Minneapolis, Minn. 4-16-1yr

PARTRIDGE WYANDOTTES.

PARTRIDGE WYANDOTTES—Real champions. Won all firsts but one, all cups and specials at the last Chicago Show; 12 exhibitors and 95 specimens in class. G. S. Culver, Sandwich, Ill. 4-6

PARTRIDGE WYANDOTTE EGGS—\$1.25 for 15; \$6 per 100. Emmett Haer, Craig, Mo. 4-6

SILVER WYANDOTTES.

STERLING SILVERS—"The quality kind." Consistent winners, persistent layers. Chas. B. Wright, Marcellus, N. Y. 6-8

TRAP-NESTED SILVER Laced Wyandottes. Hatching eggs, \$1 per 15. Baby chicks, \$1.50 per doz. U. Guy Eby, Cassopolis, Mich. 4-6

WHITE WYANDOTTES.

HIGH CLASS WHITE Wyandottes—Martin strain. Choice yearling stock and hatching eggs at reduced prices. Wm. Remmert, St. Peter, Ill. 6

SPRING BROOK FARM White Wyandottes, famous laying strain. Eggs from choice matings of splendid layers, \$1.50 per 15; \$8.50 per 100. N. E. Robart, Caledonia, Mich. 5-7

WHITE WYANDOTTE EGGS—100 for \$4. Russell Simpson, Palmer, Ill. 5-6

WHITE WYANDOTTES—Fishel Strain. Eggs, young and old stock for sale. Edw. C. Wiesenborn, Grand Chain, Illinois. 5-7

WHITE WYANDOTTES. Utility stock, standard breeders and exhibition birds. Prices reasonable. G. A. Haper, R. 8, Batchtown, Ill. 5-7

KEELER'S "WORLD'S GREATEST" strain—White Wyandottes. Eggs cheap. Nick Fleck, Plymouth, Ind. 4-6

EXHIBITION AND HIGH-CLASS layers. Winners 1915-16 at Kansas City, 1st 2d and 3d cocks, 2d and 4th hens, 5th pullet, 1st best variety, 1st special, best cock. At Omaha, 2d and 3d cock, 2d pen, 2d hen. Eggs for sale. Send for mating list. Dr. C. P. Liegecot, Red Oak, Iowa. 4-6

WHITE WYANDOTTES BRED for show and eggs. Buffalo winners. Trap-nested for eight years. Day-old chicks. Eggs. Cockerels. Miss Marion I. Moore, Hamburg, N. Y. 4-6

JOHN A. BRUHN. Homer, Ill., breeder of Ideal White Wyandottes. Guaranteed eggs from large, heavy layers, \$1 per 15; \$5 per 100. 3-6

REGAL DORCAS WHITE Wyandottes. They will please and pay you. Eggs, \$1.50 for 15. James C. Wilson, Peoli, Ohio. 4-6

ROSEMOUNT WHITE WYANDOTTES. Profusely illustrated catalog now ready. Get acquainted with the ever-better kind. Franklin, Pa. 2-7

BARGAIN EXTRAORDINARY. At the Milwaukee Show, January 21st to 26th, 1916, a show that compared favorably with The Coliseum, in White Wyandottes I won 5 out of 6 firsts in the second largest class in the show. I won 1st and 5th cocks; 1st and 2nd hens; 1st cockerel; 1st and 2nd pullet, and 1st old pen. If you question the quality of my Wyandottes, write Judges W. C. Pierce, Theodore Hewes, or Mr. Wells. I have 8 pens mated of the very best Wyandottes in the country, and I will sell eggs from these pens in limited numbers at \$3.50 per setting of 15 eggs—not more than 2 settings to any one customer. If you are interested, place your order early. Frank E. Hering, South Bend, Ind.

WYANDOTTES—SEVERAL VARIETIES.

SPECIAL OFFER THIS MONTH—Buff and Partridge Wyandotte stock and eggs. Coffin & Sons, Waverly, Iowa. 5-7

SEVERAL BREEDS.

FISHEL WHITE ROCKS. White and Blue Orpington eggs. Write for mating list. Rice Lake Poultry Yards, Rice Lake, Wis., Box 32. 5-6

WHITE ORPINGTON AND SILVER Pencilled Wyandotte eggs for hatching. Prices right for quality. Fairmont Farms, South Haven, Mich. 4-6

SUMATRAS, ORPINGTONS, White Rocks, James A. Daley, Licensed Poultry Judge, Mohawk, Mich. 11-15-1 yr

BARRED ROCK, WHITE Wyandotte and Single Comb White Leghorn eggs for hatching, \$1.50 per 15. Eggs only from trap-nested hens, all hens with records above 200. Dunn County School of Agriculture, Menominee, Wis. 4-6

WHITE AND BUFF Orpingtons, White and Buff Rocks, Anconas, Light Brahmas, White Runner Ducks, White China Geese. Eggs for hatching. Pure maple syrup for sale. Eslie Webb, East Oswell, Ohio. 4-6

MAPLE FOREST POULTRY Farm—Eggs, per 15, Buff and White Orpingtons, Golden and Silver Campines, Barred Rocks, \$1.50. Blue Orpingtons, \$5. Cockrels for sale. W. Chalker & Sons, Waters, Mich. 4-6

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S. C. WHITE LEGHORN Baby Chicks. You positively cannot afford to place your order for baby chicks before writing for our illustrated book on the new up-to-date way. We raise them for you for the first twenty days at our expense. We tell how you can clear over \$11 per day on 500 of our pullets by next November. Positive proof. No fancy figures. It will pay you to investigate. Twelve years in perfecting one strain. Write now. Kerlin's Grand View Poultry Farm, Center Hall Pa. 6

CHEAPEST HATCHERY—EXPRESS pre-paid. Baby chicks and three months old pullets. Eight best varieties. Book orders now for early pullets. Bargains by hundred. Twenty years experience. Cedar Hill Farm, Saugerties, N. Y. 6

CHICKS—7 CENTS and up. Rocks and Leghorns. Arrival guaranteed. Nittany Valley Poultry Farm, Mingoville, Pa. 5-6

CHICKS 6C AND UP—White Wyandottes, Rocks, Leghorns, Minorcas, etc. Safe delivery guaranteed. Circular free. Reliable Hatchery, McAlisterville, Pa. 5-7

S. C. WHITE LEGHORN chicks, \$12 per 100. Wyckoff's, the world's greatest strain. Mauerhof, 5150 S. Artesian Ave., Chicago, Illinois. 5-7

BABY CHICKS AND eggs from high breeding birds. Heavy egg production Laken-velders, Black Minorcas, White Leghorns, Anconas, Hamburgs, White Rocks, Barred Rocks. Price reasonable. Catalog free. John Geiger, Chathfield, Ohio. 4-7

NOTHING BUT WHITE LEGHORNS—Baby chicks, \$15 per 100. The Elmore Farm, R. 3, Birdgeport, Conn. 4-6

BABY CHICKS AND ducklings. Single Comb White Leghorns 10c each; Pekin ducks 20c each. White Feather Poultry Farm, Ransonville, N. Y. 3-6

WHITE EGG FARMS baby chick. Wyck-off strain, as good as the best. \$10.00 per 100. Also hatching eggs and stock for sale. William Clarke, Mt. Vernon, Ill. R. 8. 2-4
Comb White Leghorns. Chicks that live \$10 per 100. Richard Schwartz, Lomira, Wis. 3-6

50,000 BABY CHICKS—Three and six weeks chicks. S. C. White, Buff, Brown Leghorns, Black Minorcas, Barred Rocks. Hatching eggs. Catalog, stamp. Failing Poultry Farm, La Fargeville, N. Y. 3-6

BABY CHICKS. Young's strain. White Leghorns, 9c; Brown Leghorns, 9c; Barred Rocks, 11c each. M. Knolls Hatchery, Holland, Mich. 2-6

DUCKS.

LARGE PEKIN DUCK eggs for setting, \$1.25 per dozen. Day-old ducklings, 25c. Emil Schaefer, Stuart Ave., Mamaroneck, N. Y. 6

INDIAN RUNNER DUCK eggs. Heavy laying white egg strain. \$1.50 setting. R. C. Eby, R. R. No. 5, South Bend, Ind. 6

WHITE INDIAN RUNNERS with upright, racy carriage, prize winners, great layers, large white eggs, 15, \$1.00; 50, \$3.00; 100, \$5.00. Circular on feeding ducklings free. B. F. Morgan, Independence, Ind. 6

RUNNER DUCKS—First Madison Square world's best. Lowest prices. Stock, eggs and ducklings. Gaebel Brothers, Morristown, New Jersey. 6

MAMMOTH PEKIN DUCKS—Prize winners. Large sized ducks, strong, healthy stock. Good egg-laying strain and layers of large white fertile eggs. Prices reasonable. J. E. Meloy, Catlettsburgh, Ky. 5-6

EGGS FROM ENGLISH Pencilled Indian Runner Ducks, \$1 per 15. George Hagedorn, Linn Grove, Ia. 5-7

ENGLISH PENCILED AMERICAN Indian Runner Ducks. Extra good layers. 30 eggs, \$1.25; 100 eggs, \$4.00. J. H. Blood, Windsor, Vermont. 5-7

FIRST SPECIAL MADISON Square. Winners 11 successive years. Runner Duck eggs, stock and ducklings. Gaebel Brothers, Morristown, New Jersey. 5-6

ROSEMOUNT DUCKS!! DUCKS!! DUCKS!! Six varieties. Catalog now ready. Franklin, Pa. 2-7

EGGS FROM PRIZE winning mammoth Pekin Ducks, \$1 per 11. Eli F. Hersey, Parkersburg, Iowa. 4-6

CHOICE BUFF ORPINGTON Duck eggs, 15 for \$2. S. Colter, Rock Creek, Ohio. 4-6

OUR 221-EGG ST. AIN Pure Fawn Indian Runner Ducks will improve your stock. Winners all principal shows. Eggs \$1.50 per dozen. F. L. Reinhart, Ottumwa, Iowa. 4-6

WHITE INDIAN RUNNER Duck eggs, \$1 per 13. Lloyd Waltman, Birmingham, Iowa. 4-6

BUFF ORPINGTON DUCKS—Eggs for hatching. Mating list. Earl W. Lowell, Sharon, Wis., Route 2. 4-6

BUFF ORPINGTON DUCKS—Eggs, first pen, \$2, and second pen \$1 per setting; \$6 per 100. T. P. Leland, New Comerstown, O. 3-6

AMERICA'S BEST BUFF ducks. Catalog. Eggs, \$2 and \$5. B. O. Swaim, Zionsville, Indiana. 4-6

TURKEYS.

AMERICA'S BEST Breeding Giant bronze Turkeys. See our advertisement on page 87. 2-15-tf

BOURBON RED TURKEY eggs, \$2.50 per dozen, prepaid. Satisfaction guaranteed. Eagle Farm, Sparta, Ky. 6

MAMMOTH BRONZE TURKEY eggs—Two years. Son of first tom, Madison Square, 1916, heads yard one. White Orpington eggs. Aldrich-Woolery strain. Mating list free. Mrs. Hall Williams, Nelson, Mo. 4-6

AMERICA'S LEADING WINNERS in Giant Bronze Turkeys and Partridge Plymouth Rocks. See our adv. on page 843. 2-tf

PIGEONS.

WANTED—5,000 COMMON or Homer Pigeons. Pay at least 25c pair. Market Poultry wanted. D. Gilbert, 1128 Palmer St., Philadelphia, Pa. 1

"PIGEONS"—the fin. t pigeon magazine, \$1.00 a year, or send 25 cents for four months' trial. Pigeons Magazine, 953 Advertising Bldg., Chicago. 5-14-tf

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BELGIAN CARNEAUX—The big ones; the good ones. Free booklet. C. D. Hevenor Company, Tonawanda, N. Y. 6

I OFFER GUARANTEED mated Homers in any quantity at \$1 pair and challenge squab companies or dealers to produce better stock at twice this price. Beautiful white Homers, \$1.50 pair. Get my prices on Runts, Carneaux, Maltese Hens and save dollars. Squab Manuel 25c. Charles A. Gilbert, 346 N. American St., Philadelphia, Pa. 4

PHEASANTS.

RINGNECK PHEASANT EGGS—\$2.50 per fifteen. G. F. Corrigan, Wheaton, Ill. 6

FOR SALE—A SUPERB lot of Golden, Silver and Amherst pheasants just right for breeding this Spring and Summer. I am now also booking orders for eggs of the following varieties, Mongolian, Ringneck, Chinese, Golden, Silver, Amherst and Reeves. Wood duck, Mallard and Gray Call duck eggs. All the eggs I ship are guaranteed to be from non-related, pure bred, strong, healthy birds, correctly mated; all eggs are guaranteed not to be over three days old when they leave my farm. I also manufacture a full line of special foods for the successful raising of young pheasants and wild water fowl, also for feeding the old birds all the year round. Write for prices. Wallace Evans Game Farm, St. Charles, Ill. Largest and most successful breeders of pheasants, wild water fowl, deer, etc., in the world. 7-15-tf

ENGLISH PHEASANT EGGS—\$3 per dozen. Magnificent colored and full plumaged birds. F. L. Reinhart, Ottumwa, Iowa. 4-6

RABBITS AND HARES.

BELGIAN HARES—Get our quotations. Hare book and catalog, five stamps. Failing Poultry Farm, LaFargeville, N. Y. 4-6

FOR SALE—PEDIGREED Flemish Giants, Rufus Red Belgians, Checkered Giants, Albino, Grey Belgians. Satisfaction guaranteed. Belgian Yards, Poughkeepsie, N. Y. 5-7

FOR SALE—LOPEARS, Flemish Giants, Belgian hares, German Checkered Giants, imported stock German Greys. Park View Rabbitry, Poughkeepsie, N. Y. 6

BLACK SIBERIAN HARE —The most profitable fur-bearing animal. Send 25 cents for booklet and price list. Siberian Hare Co., Hamilton, Canada. 5-7

GUINEAS.

PEARL GUINEA EGGS—\$1.45 per 30. Miss Alma Eichelmann, R. 4, Waterloo, Ill. 4-6

GUINEA PIGS.

GUINEA PIGS—Raise them for us. We buy young stock. Big demand. Easy to raise. We furnish full particulars and breeding stock. Enclose stamp. Cavy Sales Co., Springfield, Ohio. 5-7

BOOKLET BREEDING GUINEA Pigs, 15c. Warren Fluck, East Greenville, Pa. 4-16-1yr

DOGS.

REGISTERED COLLIE PUPS—Woodland Laddie at stud. Woodland Collie Kennels, New Lenox, Ill. 6-8

BEAUTIFUL REGISTRABLE Scotch Collie pups, \$6. Meadow Farm, Coulterville, Illinois. 6

PEDIGREED COLLIE pups. Males, \$10.00; females, \$5.00. Plummer McCullough, Mercer, Pa. 9-15-tf

SCOTCH COLLIES—Get our quotations. Catalog, stamp. Failing Poultry Farm, LaFargeville, N. Y. 4-6

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FOR SALE—Pure bred Persian kittens, Silvers and Cream. Prices reasonable. Mrs. Jessie Taylor, Tiro, Ohio. 6

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\$1.00 WILL STOP your future losses from Gapes. No fake. A. Hanselman, Des Plaines, Ill. 5-7

\$500 PER YEAR raising Canaries! The new industry. Start at home. Spare time. Very little capital necessary. We show you how. Particulars free. Address Monarch Specialty Co., Box 185, Evanston, Ill. 5-6

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STALLARD'S NEW LICE Exterminator, a harmless, tasteless powder, which, when mixed with food and fed to chickens, destroys every form of insect life. You can treat as many as you can feed. No spraying, dusting or greasing. Improves the health, brightens the plumage and is one of the greatest egg producers known to the poultry profession. Try it. It will surprise you. Price 50 cts, postpaid. Stallard's Poultry Supply Co., 213 San Francisco St., El Paso, Texas. 4-6

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TYPEWRITERS—WE SELL all makes at low prices, and on small payments. Write now about our Re-Manufactured machines. Buy one; don't use a pen. N. E. Typewriter Exchange, Hartford, Conn. 6-8

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BOARD ON FARM in Illinois, Indiana, Michigan, Wisconsin or Iowa by two ladies and child during July or August. Please give rates and particulars. Address Box V, c/o American Poultry Journal, Chicago, Ill. 6

AN EXPERIENCED POULTRYMAN of 18 years as a breeder and very successful in artificial hatching and rearing chicks, desires a similar position, either on large commercial farm or on fancy breeding stock farm. Moderate wages. Best of references. S. E. Lane, 2113 S. 47 Court, Cicero, Ill. 6

MEN OF IDEAS and inventive ability should write for new lists of "Needed Inventions," "Patent Buyers," and "How to Get Your Patent and Your Money." Randolph & Co., Patent Attorneys, Dept. 319, Washington, D. C. 10-15-1yr

WANTED—POSITION ON poultry plant or farm. Practical experience. Ernest Robinson. Milford Center, Ohio. 4-6

WANTED—LIVE WIDEAWAKE salesman to sell Lay-More, the new egg producer. Increase production 30 per cent. Cures and prevents diseases. A fine proposition to the right party. Write today for terms and prices. The Lay-More Co., Strasburg, Ill. 5-6

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QUALITY CONSIDERED, my prices for printing are surprisingly low. Trial order convinces. R. L. Richardson, East Sixteenth St., Bedford, Ind. 5-7

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EGG CASES FOR SALE CHEAP. (Second hand.) Complete with flats and fillers; in fine condition. Prompt shipments any quantity. Get our prices. Empty Package Supply Co., Dept. R, Kent Ave. and So. 9th St., Brooklyn, N. Y. 5-6

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FOR SALE BY OWNER—Fully equipped poultry farm. Books show profits. Carrying 3,500 head old and young stock. Will trade for part. 111 miles from Chicago. Address T. c/o American Poultry Journal. 5-7

FOR SALE OR EXCHANGE—44-acre Indiana farm. 90 miles from Chicago, extra well improved. Want well equipped poultry farm near Chicago. E. Schmidt, Hazelrigg, Ind. 6

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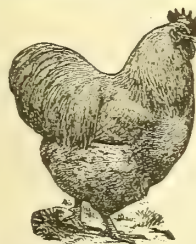
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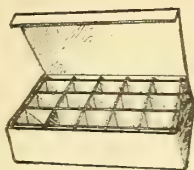
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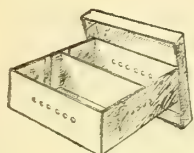
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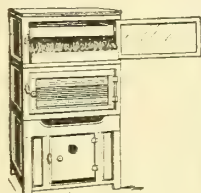
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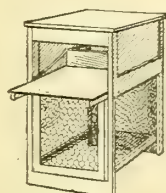
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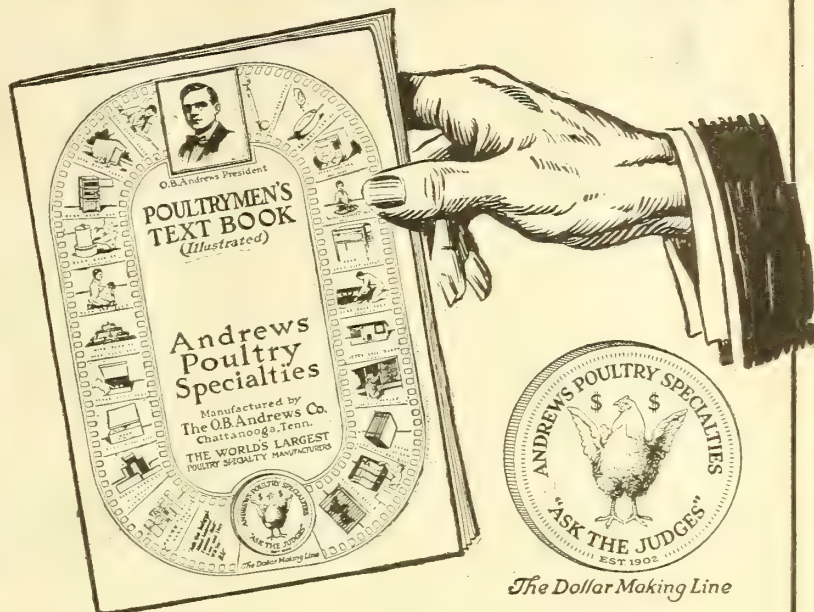


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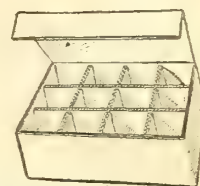
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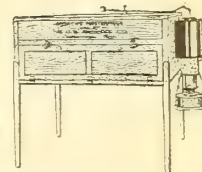


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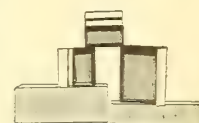
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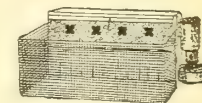
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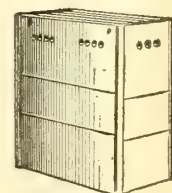
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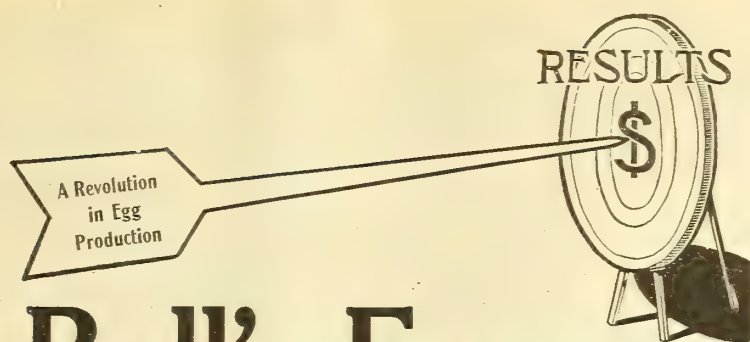
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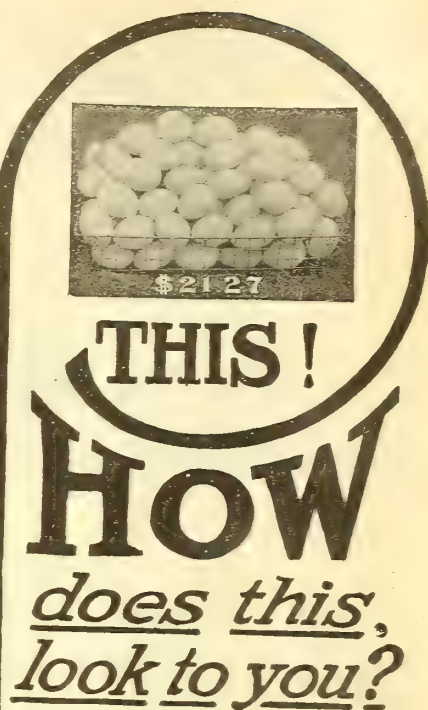
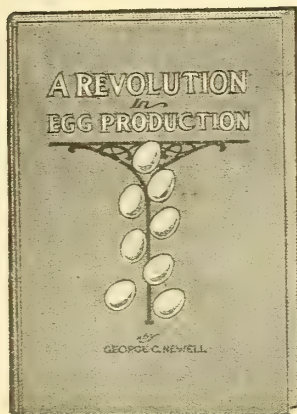
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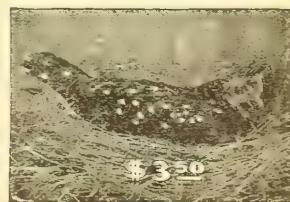
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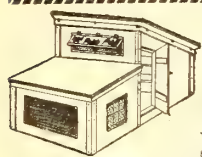
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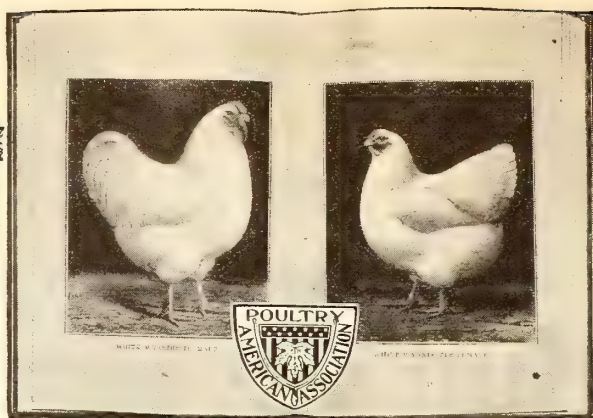
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TABLE OF CONTENTS

	PAGE
J. C. FISHEL—PIONEER POULTRYMAN.....	913
MID-SUMMER MANAGEMENT OF POULTRY YARD.....	Maurice Decker 914
SEX CONTROL IN POULTRY BREEDING.....	Herb E. Sharp 915
HAIL TO THE BEAUTIFUL WHITE ORPINGTON.....	S. N. Brennan 918
THE USE OF CAPONS AS FOSTER MOTHERS.....	S. K. Burdin 919
WHY I CHOSE THE BARRED PLYMOUTH ROCK.....	F. W. Proctor 920
A BEGINNER CHOOSES A VARIETY OF POULTRY.....	S. W. Exley 921
EDITORIAL.....	922
Save Your Clover—Buy Breeding Stock Now—The Automobile—Criticism and the "Thin Skinned"—Buy a Home—Suicidal Publishing by the American Poultry Association—Our Cover.	
LICE AND MITES.....	927
DR. WOODS' NOTES AND COMMENT.....	928
HORTICULTURE FOR POULTRY KEEPERS.....	931
CHICK FOODS.....	936
QUESTIONS AND ANSWERS.....	937
HOME AND THE TABLE.....	Helen T. Woods 942
READERS' EXPERIENCE DEPARTMENT.....	944
RECENT INVENTIONS FOR POULTRYMEN.....	947
CLEVELAND AND THE AMERICAN POULTRY ASSOCIATION.....	948
MONTHLY PRIZE CONTEST DEPARTMENT.....	949
POULTRY RAISING AS A BUSINESS AND ITS POSSIBILITIES.....	Shepard Strong 952
WOMAN'S SUCCESS WITH POULTRY.....	953
SINGLE MATING FOR PARTRIDGE ROCKS.....	Lucy D. Cole 953
AVOID BOWEL TROUBLE IN BABY CHICKS.....	Mrs. Don Willis 954
HOW I PRODUCED AND PREPARED 1915 EXHIBITS.....	Mrs. H. H. Fulcher 955
WHY I BREED BUTTERCUPS.....	E. H. Williams 956
SEEN AND HEARD IN THE MID-WEST.....	Shepard Strong 957
SPANGLED WYANDOTTES BREED CHARACTERISTICS.....	L. Cook 960
WHY I BREED BLACK LANGSHANS.....	M. R. Buzzell 961
OUT OF THE EAST.....	P. K. White 962
ASSOCIATIONS AND SHOWS.....	964



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INDEX TO GUARANTEED ADVERTISERS

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"A" and "D" Mfg. Co., Chicago, Ill.....	934	Curtis, E. G., Atsion, N. J.....	954	Keeler, Chas. V., Winamac, Ind.....	966	
Abbott, O. M., Whiteland, Ind.....	962	Cyphers Incubator Co., Buffalo, N. Y.....	947	Keipper Cooping Co., Milwaukee, Wis.....	958	
Aldrich Poultry Farm, Columbus, Ohio.....	933	Darling & Co., Chicago, Ill.....	962	Keller, Ira C., Prospect, Ohio.....	942	
Allen Co., S. L., Philadelphia, Pa.....	931	Davis, M. C., Woodstock, Ill.....	945	Kennedy, J. Fred N., Birch Cliff, Can.....	946	
Allentown Fair, Allentown, Pa.....	935	Dawdy & Dawdy, Greenville, Ill.....	958	Keyes-Davis Company, Battle Creek, Mich.....	911	
Almendinger, A. F., Buffalo, N. Y.....	945	Deeg Grover, Quincy, Ill.....	962	Kitselman Bros., Muncie, Ind.....	951	
Alum. Marker Works, Beaver Falls, Pa.....	954	Deem's Buckeye Yards, Eaton, Ohio.....	930	Klein-Lambert Co., Chicago, Ill.....	943	
American Farming, Chicago, Ill.....	954	Deer, F. L., Franklin, Ind.....	962	Kulp, W. W., Pottstown, Pa.....	930	
Am. Poultry Advocate, Syracuse, N. Y.....	963	Demberger, L. J., Stewartsville, Ind.....	941	Lakewood Farms, Holland, Mich.....	949	
Am. Poul. Journal, Chicago, 908-937-907-971		Deming, H. P., Winsted, Conn.....	911	Lange, J. G., Detroit, Mich.....	956	
Am. School of Poul. Husbandry, Missouri.....	952	Des Moines Inc. Co., Des Moines, Iowa.....	908	Latham, C. H., Lancaster, Mass.....	929	
Andrews Co., O. B., Chattanooga, Tenn.....	966	Deyoe's, Dodgeville, Wis.....	940	Lauver, C. M., McAlisterville, Pa.....	960	
Andrews, J. W., Dighton, Mass.....	942	Doerhoefer, Lewes P., Anchorage, Ky.....	936	Lee Co., Geo. H., Omaha, Neb.....	936	
Andrews, S. H., Mineola, N. Y.....	962	Eakin, F. M., Bucyrus, Ohio.....	912	Lee, Leo A., Chicago, Ill.....	962	
Applegate Poultry Farm, Delavan, Wis.....	934	Elec. Specialty Co., Salt Lake City, Utah.....	954	Leitner, C. H., Elgin, Ill.....	929	
Arady Farm Milling Co., Rondout, Ill.....	934	Elliott Poul. & Fruit Farm, Mansfield, O.....	932	Liberty Stove Co., Philadelphia, Pa.....	953	
Astle, Milan C., Momeno, Ill.....	941	Everfresh Egg Farm, Ionia, Mich.....	962	Licene Co., Chicago, Ill.....	951	
Atherton, W. B., Randolph, Mass.....	962	Faha Jr., Frank, Dyersville, Iowa.....	946	Lilly White Poultry Farm, Saginaw, Mich.....	966	
Atlas Company, Lincoln, N. J.....	958	Felch, I. K., Natick, Mass.....	908	Lingeman, C., St. Louis, Mo.....	960	
Automatic Trap Nest Co., Kenosha, Wis.....	946	Fernbrook Farm, Albany, N. Y.....	930	Lo-Glo Elec. Incubator Co., New York.....	932	
Balch & Brown, Manchester, Conn.....	933	Ferris, P. J., Cuyahoga Falls, Ohio.....	932	Longfield Poultry Farm, Bluffton, Ind.....	942	
Bales, J. S., Springfield, Ill.....	963	Fishel & Hasselman, Indianapolis, Ind.....	966	Lord Farms, Methuen, Mass.....	930	
Bail, W. J., Salem, Ohio.....	941	Fishel & Son, J. C., Hope, Ind.....	926	McClave, Chas., New London, Ohio.....	956	
Banks, M. H., Dillsburg, Pa.....	962	Fishel, U. R., Hope, Ind.....	924	McConnell, J. V., Garden Grove, Cal.....	954	
Barker, M. S., Thornton, Ind.....	954	Fogg, N. V., Mt. Sterling, Ky.....	960	McConnell, W. A., Richmond, Ill.....	958	
Barstow, Geo. N., Oneonta, N. Y.....	952	Fourche Mountain Poultry Farm, Ark.....	957	McDanell, M. O., Moline, Ill.....	926	
Bawden, John, Ridgetown, Ont., Can.....	936	Foxhurst Farm, Lime Rock, Conn.....	930	Mackey Farms, Gilboa, N. Y.....	963	
Bayerdorfer, M., Hugenot Pk., N. Y.....	930	Frantz, O. C., Rocky Ford, Colo.....	945	Mahon, Elton C., Norwood, Tenn.....	954	
Beach, Geo. Watson, New York, N. Y.....	958	Fraser, W. F., East Akron, Ohio.....	945	Mann Co., F. W., Milford, Mass.....	963	
Bear Brook Poul. Farm, Wakefield, Mass.....	945	French Co., R. T., Rochester, N. Y.....	936	Martin, Mrs. E. B., Downey, Cal.....	965	
Belgian Hare, Holmes Park, Mo.....	946	Friesner & Son, J. W., Bremen, Ohio.....	960	Martin, John S., Port Dover, Can.....	926-938	
Bella Vista Farm, Kimmiswick, Mo.....	934	Gamewell, J. A., Little Silver, N. J.....	933	Martin, M. F., Chicago, Ill.....	954	
Belle City Incubator Co., Racine, Wis.....	948	Garbutt, Cora B., Darien, Wis.....	946	Martling Hennyery, Ridgefield, N. J.....	932	
Berberich, Rev. W., Groton, N. Y.....	940	Gassmann, Henry, Olney, Ill.....	960	Martz & Son, A. E., Arcadia, Ind.....	924	
Besse, C. W., Jefferson, Maine.....	960	Gensch, F. M., Omro, Wis.....	966	Mazelin, Joseph, Berne, Ind.....	962	
Beuoy, Geo. Cedar Vale, Kansas.....	944	Geneser Bros., Creston, Ohio.....	938	Meadow Lark Farm, Elgin, Ill.....	931	
Bird Bros., Meyersdale, Pa.....	928	Gerber, G. J., Dalton, Ohio.....	941	Meadow Lawn Poultry Yds., Michigan.....	930	
Blatchford's Calf Meal Fcty., Illinois.....	945-963	Gilbert Poul. Farm, Haverhill, Mass.....	960	Merrell, Arthur, Solon Mills, Ill.....	954	
Bloese, Aug., Chicago, Ill.....	945	Globe Elevator Co., Buffalo, N. Y.....	941	Metzger Mfg. Co., Quincy, Ill.....	934	
Blum, Barbara, New Washington, O.....	940	Glory-Anna Poultry Yds., Louisville, Ky.....	951	Minch, Philip J., Cleveland, Ohio.....	934	
Blum, Frank, New Washington, O.....	934	Goddard & Sons, W. H., Muncie, Ind.....	911	Mirimichi Poultry Farms, Foxboro, Mass.....	912	
Bock, Oscar L., Council Bluffs, Iowa.....	942	Gordon, Jessie F., Spring Valley, Minn.....	946	Mittendorf, O. F., Lincoln, Ill.....	944	
Bourne Mfg. Co., Melrose, Mass.....	951	Grant, John, Richmond, Ill.....	962	Model Incubator Co., Buffalo, N. Y.....	963	
Bradley Bros., Lee, Mass.....	970	Grove Hill Poul. Yds., Waltham, Mass.....	930	Monmouth Farms, Frenau, N. J.....	957	
Broaden, Thos., Rush Lake, Wis.....	932	Halbach, H. W., Waterford, Wis.....	927	Moore, R. H., Nellie, Ohio.....	930	
Brown Fence & Wire Co., Cleveland, O.....	931	Hales & Edwards Co., Chicago, Ill.....	906	Moreland Poultry Farms, Mentor, Ohio.....	956	
Brown, John L., Anderson, Ind.....	938	Hanover Fair, Hanover, Pa.....	911	Morris Farm, Bridgeport, Conn.....	936	
Bruerton, M. M., Wakefield, Mass.....	934	Harbin, Edmond J., Riverside, Ill.....	938	Morris Poultry Farm, Lebanon, Ohio.....	944	
Buckeye Incubator Co., Springfield, O.....	940	Harnly, Mrs. J. H., Zion City, Ill.....	957	Morse's Wh. Leg. Farm, Belding, Mich.....	956	
Buell, Mrs. L. R., Lake Geneva, Wis.....	934	Hayward, W. F., Westboro, Mass.....	970	Muller & Co., Franklyn R., Waukegan, Ill.....	945	
Burdin, S. K., Toronto, Ont., Can.....	957	Haywood Tire & Equip. Co., Indiana.....	941	Muskwadosa Stock Farm, Pembine, Wis.....	960	
Cairngorm Farm, Nottingham, Ohio.....	962	Heasley, Dr. L. E., Holland, Mich.....	933	Myers, C. Guy, Siddonsburg, Pa.....	944	
Candee Inc. & Brooder Co., Eastw., N. Y.....	939	Henderson, W. W., Bridgeton, Mo.....	940	Myers, C. N., Hanover, Pa.....	925	
Carbola Chemical Co., New York, N. Y.....	911	Hering, Frank E., South Bend, Ind.....	961	Myers, Frank, Freeport, Ill.....	948	
Carbolineum Wood Pres. Co., Milwaukee.....	936	Hess & Clark, Ashland, Ohio.....	932	National Crate Co., Brooklyn, N. Y.....	949	
Carpenter, W. W., East Providence, R. I.....	930	Hewes, Theo., Indianapolis, Ind.....	928	National Poultry Band Co., Newport, Ky.....	945	
Carr Bros., Vineland, N. J.....	942	H. I. Company, Salem, Va.....	933	Natural Hen Inc. Co., Los Angeles, Cal.....	963	
Carter's Poultry Farm, Jonesdale, Wis.....	945	H. O. Company, Buffalo, N. Y.....	960	Nelson, Walter P., Bayonne, N. J.....	945	
Carver, A. A., Seville, Ohio.....	935	Hodgson Co., E. F., Boston, Mass.....	935	Neusitz Co., W. A., St. Louis, Mo.....	936	
Cheviot Co., Gambier, Ohio.....	920	Holtermann, W. D., Fort Wayne, Ind.....	928	Newell & Gordinier, Troy, N. Y.....	956	
Chicago & Alton R. R., Chicago, Ill.....	958	Homestead Camp. Farm, Wayland, Mass.....	933	New England Typewriter Ex., Conn.....	932	
Chiles & Company, Mt. Sterling, Ky.....	908	Hooker, Henrietta E., So. Hadley, Mass.....	940	Newtown Giant Inc. Corp., Virginia.....	964	
Clark Co., Newton, Mass.....	957	Houston & Hofius, So. Charleston, Ohio.....	932	Niemann Bros. Mfg. Co., Mt. Olive, Ill.....	932	
Cleveland Hatchery, Cleveland, Ohio.....	966	Howison, Chas., Sandwich, Ill.....	946	Nixon, Chas., Washington, N. J.....	946	
Coburn's Red Sus. Farms, St. Clair, Mich.....	946	Hubbard, C. H., Lime Rock, Conn.....	953	Norwich Auto. Feeder Co., Conn.....	948	
Cole, Frank C., Van Wert, Ohio.....	951	Hummel, S. A., Freeport, Ill.....	962	Novak Poultry Farm, Racine, Wis.....	962	
Collins, W. H., New York, N. Y.....	932	International Glue Co., Boston, Mass.....	948	Nye, C. C., Harristown, Ill.....	956	
Conkey Co., G. E., Cleveland, Ohio.....	943	Ironclad Incubator Co., Racine, Wis.....	963	Oakes Mfg. Co., Tipton, Ind.....	938	
Conrad, E. K., Hackensack, N. J.....	960	Ives, Ives & Ives, Guilford, Conn.....	946	Ohio Marble Co., Piqua, Ohio.....	948	
Cook, L., Oakville, Iowa.....	908	Jacobus, M. R., Ridgefield, N. J.....	930	O. K. Co., New York City, N. Y.....	954	
Cooke, Geo., Racine, Wis.....	962	Jensen, Carl J., Waukegan, Ill.....	930	Old Forge Poul. Farm, Spring Grove, Pa.....	933	
Co-Op. Breed. & Hatch. Co., Tiro, O.....	938	Johnson, Frank, Chicago, Ill.....	946	Olle, P. J., Racine, Wis.....	956	
Corn Products Refining Co., New York.....	966	Johnson Co., M. M., Clay Center, Neb.....	936	Orchard Farm, Noroton Heights, Conn.....	962	
Cornell Company, Gr. Barrington, Mass.....	934	Kauf, F. A., Glen Ellyn, Ill.....	960	Owen Farms, Vineyard Haven, Mass.....	912	
Corning Egg Farm, Bound Brook, N. J.....	954	Keefer, C. A., Muskegon, Mich.....	962	Pabst Stock Farm, Oconomowoc, Wis.....	931	
Crane, Chas. M., Elkhorn, Wis.....	953			Page, Fred, Rockford, Ill.....	958	
Cross, Frank, Montague, Mass.....	958			Palmer & Son, D. F., Yorkville, Ill.....	954	
Crotser, E. A., Fulton, Mich.....	960					
Cudahy Packing Co., Chicago, Ill.....	942					



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Parks, J. W., Altoona, Pa.	933
Pasteur Lab. of America, New York	963
Peerless Hatchery, Chicago, Ill.	940
Pennington, J. S., Plainfield, Ill.	930
Pennsylvania Poul. Farm, Lancaster, Pa.	955
Perfec. Port. Poul. House Co., Chicago	946
Perry, Louis H., Clay, N. Y.	960
Philo, E. W., Elmira, N. Y.	936
Pilling & Son Co., Philadelphia, Pa.	940
Pittsfield Poultry Farms Co., Mass.	945
Platt, F. L., Swanton, Ohio	924
Plymouth Rock Squab Co., Melrose, Mass.	952
Poorman, John G., Tinley Park, Ill.	912
Pope & Pope, Louisville, Ky.	965
Porter, A. B., La Salle, Ill.	954
Potter & Co., Downers Grove, Ill.	952
Pottinger, Joseph, Peru, Ill.	963
Powers, J. H., Chicago, Ill.	962
Prairie State Inc. Co., Homer City, Pa.	948
Pratt Food Co., Philadelphia, Pa.	960
Progressive Incubator Co., Racine, Wis.	943
Purina Mills, St. Louis, Mo.	954
Putnam, I., Elmira, N. Y.	945

Quaker Oats Co., Chicago, Ill.	941
Queen Incubator Co., Lincoln, Neb.	970
Quincy Poultry Farms, Quincy, Ill.	960

Rau, Fred, Indianapolis, Ind.	940
Rawnsley-Shields Poultry Farm, Ohio	944
Read, W. E., Maywood, Ill.	962
Read Poultry Farm, Watervliet, N. Y.	941
Red Feather Farm, Tiverton 4 Cor., R. 1	909
Reed, Mrs. Hattie D., Marcellus, N. Y.	932
Reliable Inc. & Brooder Co., Quincy, Ill.	964
Reliable Poultry Journal, Quincy, Ill.	936
Reliance Incubator Co., Freeport, Ill.	969
Riley, H. J., Bryan, Ohio	930
Rippley Mfg. Co., Grafton, Ill.	931
Rockford Poul. Supply Co., Rockford, Ill.	945
Rock Ledge Farm, Southboro, Mass.	933
Rogers, F. D., Elgin, Ill.	953
Rosedale Egg Farm, Port Huron, Mich.	942
Rosemount Farms, Franklin, Pa.	970
Rudy, Geo. H., Mattoon, Ill.	962
Ruf, Fred A., Crown Point, Ind.	936

Sanborn, Dr. N. W., Holden, Mass.	920
Sargent, Lester L., Washington, D. C.	958
Schabell, John, Chicago, Ill.	936
Schultz, W. F., Cuyahoga Falls, Ohio	960
Schwalge-Smith Co., Elmhurst, Ill.	909
Scranton, B. H., Rising Sun, Ind.	946
Sears, Howard O., Garden Prairie, Ill.	946
Sefton Mfg. Co., Chicago, Ill.	934
Seward, R. M., Lewistown, Ill.	934
Sharp, Herb E., Spokane, Wash.	963
Sheer Co., H. M., Quincy, Ill.	941
Sheffield Farm, Glendale, Ohio	938
Sheppard, H. Cecil, Berea, Ohio	907
Shoemaker, C. C., Freeport, Ill.	963
Shoenhard, G. H., Freeport, Ill.	958
Simmonds, Chas. A., Camp Point, Ill.	946
Simplex Supply House, Chicago	911-951-948
Sixt, H. C. & C. W., West Park, Ohio	960
Smith, Eugene C., Aurora, Ill.	925
Smith, F. S., Hamilton, Ohio	942
Smith Specialty Co., Mansfield, Ohio	903
Somers, J. O., Bedford, Ohio	908
Spahr, Albert G., Xenia, Ohio	962
Spencer, John G., Sharpsburg, Pa.	938
Spiller, A. P., Beverly, Mass.	958
Sprague, P. H., Maywood, Ill.	962
Sprecher Bros., Rohrerstown, Pa.	951
Starks, M. L., Starks, Wis.	951
Stiarwalt, John, Decatur, Ill.	962
Stiles, Chas. L., Columbus, Ohio	943-952
Stover Mfg. Co., Freeport, Ill.	934
Stratton Mfg. Co., Erie, Pa.	956
Struble, Z. D., Bascom, Ohio	941
Sturman Grant, Mt. Carmel, Ill.	930
Sunlight Poultry Farm, Lynchburg, O.	909
Sunnyside Poultry Farm, Bristol, Vt.	932
Sunset Poultry Yards, Olneyville, R. I.	930
Sunswick Poul. Farm, S. Plainfield, N. J.	965

Tarbox, A. & E., Yorkville, Ill.	957
Taylor, Geo., Urbana, Ill.	960
Taylor Instrument Co., Rochester, N. Y.	969
Tenacre Poultry Farm, Princeton, N. J.	946
Thompson, E. B., Amenia, N. Y.	Back cover
Thompson & Co., F. A., Detroit, Mich.	932
Thornycroft Buff Leghorn Farm, Penn.	962
Tiffin Poul. Farms & Hatchery, Tiffin, O.	930
Tompkins, Harold, Concord, Mass.	938

Tremper, S. N., Sandwich, Ill.	951
Trethaway, Arthur, Wilkes-Barre, Pa.	934
Tyler, S. A., De Kalb, Ill.	945

Uhl & Co., M., New Washington, Ohio	935
United Brooder Co., Trenton, N. J.	930
Urban Farms, Buffalo, N. Y.	956

Walker, G. A., Polo, Ill.	962
Ward, Jr., John W., Pennington, N. J.	954
Ward, R. W., Normal, Ill.	954
Ward, W. H., Nickerson, Kansas	945
Watson Mfg. Co., Lancaster, Pa.	940
Watts, Mrs. Tella E., W. Concord, Minn.	936
Wellcome, F. O., Yarmouth, Maine	946
Wendell Incubator Co., Holly, Mich.	952
Whatglen Farm, Lancaster, Pa.	910
Wheeler, Albert V., Carlisle, Ill.	946
White City Egg Farm, Seville, Ohio	934
White Wyandotte Poultry Yds., Mass.	953
Wiebke, W. H., Fort Wayne, Ind.	930
Williams, A. C., Ravenna, Ohio	946
Willow Tree Poultry Farm, Mass.	954
Wilson Bros., Easton, Pa.	934
Witte, Ed. H., Kansas City, Mo.	945
Wolf, Mrs. John, Merrifield, N. Dak.	962
Woods, H. M., Carlisle, Ill.	934
Woodward, C. L., Norwalk, Ohio	934
Woodward, Ralph, Grafton, Mass.	932
Wooley Farm, Bloomington, Ind.	958
Wyckoff & Son, C. H., Aurora, N. Y.	949
X-Ray Incubator Co., Des Moines, Iowa	943
Yesterland Egg Farms Co., Pacific, Mo.	940
Young, D. W., Monroe, N. Y.	929

Young Co., E. C., Randolph, Mass.	908
20th Century Hatchery, New Wash., O.	935



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Grade A Eggs... 20c	Grade A Chicks... 30c
Grade B Eggs... 12c	Grade B Chicks... 20c
Grade C Eggs... 6c	Grade C Chicks... 12c

My guarantee on eggs and
chicks during this special sale is
arrival of eggs in good hatching
condition, and the arrival of
chicks in perfect health. Have
your express agent give you a
statement describing condition of
eggs or chicks if received other-
wise than as above guaranteed.
Can make immediate shipment of
eggs. Can usually ship chicks
within 5 days after receipt of
order.

Special Stock Sale

In all my breeds I have some
exceptionally good breeders (hens
and cocks) to offer for the first
time. This is stock that I would
not sell during the past four
months. It is the stock that has
produced the eggs and chicks for
over 4,500 satisfied customers. My
regular prices are very reasonable.
This sale gives you the opportunity
of buying real layers, a foundation
for your future success. I have
some very good cockerels and pul-
lets growing nicely. You may
want some of them. Advise me of
your wants. I will be pleased to
quote your prices on same for late
summer and early fall delivery.
Do not overlook the advantage of
booking your order now. It means
a reserved selection and mutual
benefits.

Write for my instructive illus-
trated catalog. It has helped
others and will undoubtedly help
you.

JOHN G. POORMAN
Box 100 Tinley Park, Illinois, U. S. A.

EAKIN'S

White Wyandottes

WIN VICTORY

At Great Chicago Coliseum Show.
Our breeding pens are made up of
these winners and others of equal
merit. Eggs \$5.00 per setting.

WRITE FOR MATING LIST.

F. M. EAKIN, Bucyrus, Ohio
BOX A

Owen Farms

SPECIAL SALE OF ADULT

**Buff and White Orpingtons
S. C. Rhode Island Reds
White Plymouth Rocks
White Wyandottes and
S. C. White Leghorns**

COMES FOR YOU IN JULY EACH YEAR

Scores of customers look forward to this sale as being their opportunity to secure Breeding Stock for the following season of a higher quality than their money will buy at any other time of the year.

You can buy one and two-year old males and females for just half the price the same birds would have cost you prior to the breeding season. You can buy part of my birds of any quality from the highest to the lowest; so you have a wide range of prices and can secure just the quality you desire. Birds that will WIN FOR YOU next winter and birds that will BREED YOU WINNERS.

You know about OWEN FARMS AND ITS BIRDS. If you have not seen the NEW CATALOG you have a real treat in store when you send for it and read it. You will appreciate the importance to yourself of basing your future success on OWEN FARMS ESTABLISHED LINE-BRED STRAINS.

Madison Square Garden Winners

393 OWEN FARMS BIRDS have won FIRST PRIZES at MADISON SQUARE GARDEN, NEW YORK, as far as competition from other breeders is concerned. NO SIMILAR RECORD HAS BEEN MADE BY THE BIRDS OF ANY OTHER BREEDER IN ALL THE WORLD.

1916 YOUNGSTERS

You can buy OWEN FARMS EARLY COCKERELS and PULLETS for your FALL FAIRS at very moderate prices and MAKE YOUR WINNING CERTAIN. My early January pullets commenced laying May 29th, so, as you can see, my youngsters will be mature for you. Will only raise the cream of my early cockerels, and can give you SURE WINNERS for your FAIR from these SELECTED BIRDS. Tell me about your competition and let me quote you.

MY NEW CATALOG

You will find in this profusely illustrated 56-page book, complete descriptions of MY FARMS, FLOCKS, WONDERFUL WINNINGS, UNEXCELED UTILITY QUALITIES, etc. A careful reading of this book will make you an Owen Farms customer. The results you will obtain from stock or eggs will make you my permanent customer.

OWEN FARMS

107 William Street,
VINEYARD HAVEN, MASS.
MAURICE F. DELANO, Prop. FRANK H. DAVEY, Supt.

Barstow's Anconas

Bred for heavy winter egg production as well as exhibition qualities. Trap-nested stock. Greatest egg record 284. Winners of the blue at New York, Allentown, Pa., N. Y. State Fair, Syracuse, and Hagerstown, Md.

Chix, stock and eggs from these large dark birds. Catalog free.

GEO. N. BARSTOW, Box A, Oneonta, N. Y.
New York State Vice-President United Ancona Club

A Fancier's Pride in His Work

We're proud of our birds because of their quality. Proud of our 8 years spent in perfecting this quality. Year by year, as our business has grown, we have discovered new and better methods of breeding, mating, feeding and housing. The four factors that go towards making blue ribbon winners. We want you to know all about "Mirimichi Quality," about our wonderful winnings at the World's Fair, New York, Boston and other shows, so we have prepared a catalog that gives you an insight into our "Quality." S. C. Rhode Island Reds, White Rocks and White Wyandottes. This book is free, so write for it today.

Breeders of Birds that Win, Lay and Pay

MIRIMICHI POULTRY FARM

W. H. Saart, Box 100, FOXBORO, MASS.

AMERICAN POULTRY JOURNAL

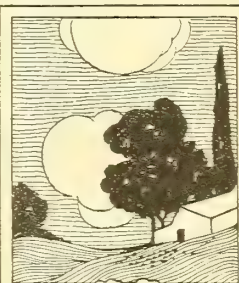
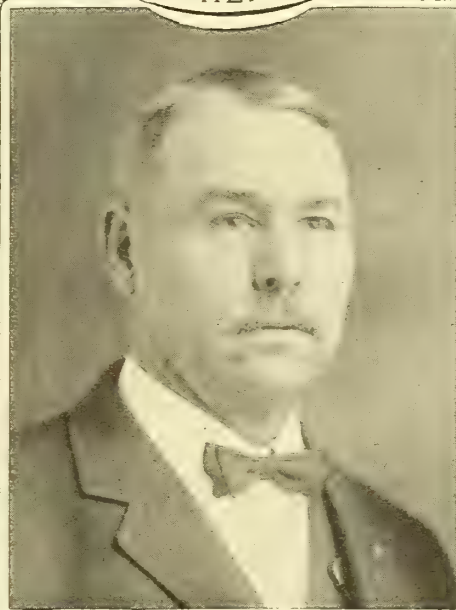
VOL. XLVII No. 7

WE LEAD

FOLLOW

OTHERS

JULY, 1916



J. C. FISHEL—PIONEER POULTRYMAN

J. C. FISHEL, of "Fisheldotte," Hope, Ind., began breeding fancy poultry in 1879 and he has been breeding fancy poultry ever since. His first catalog was issued in 1883 and was printed by C. J. Ward, of the AMERICAN POULTRY JOURNAL. At that time he was breeding Dark Brahmas and Brown Leghorns. No one was making a business out of poultry keeping; it was only a side line then. When the poultry business had developed to capacity enough to require his entire time Mr. Fishel made it his exclusive business.

"Fisheldotte" farm specializes in White Wyandottes exclusively, has been very successful in the show room and sells breeding and exhibition stock all over the world. While the breeding is always for exhibition quality, the firm has never lost sight of utility values. The business has increased each year and of late they have been furnishing many birds for stocking large broiler and egg farms. They have named their strain "The World's Best White Wyandottes."

Midsummer Management of Poultry Yard

Poultry House Essentials, Selling Surplus Pullets, A Satisfactory Colony House, Growing Late Crops of Green Food.

By Maurice H. Decker



BEFORE BUILDING new hen houses, the poultryman should carefully consider the requirements of a comfortable, economical structure. He should bear in mind the successful laying house embodies:

Ample ventilation at all seasons.

Air tight construction upon three sides and the roof.

No dark corners.

A tight partition placed every ten to fourteen feet in long buildings.

One nest to every 3 to 4 layers.

Nests 12 inches square for Leghorns.

Nests 14 inches square for heavier breeds.

Six to eight inches roost space per bird.

Four to six square feet of floor space per bird.

A floor that is not dusty and that can be kept in a sanitary condition.

One square foot each of screened opening and glass sash to every 10 to 14 feet of floor space. The screened opening to be protected by burlap shutters in severe storms and zero weather.

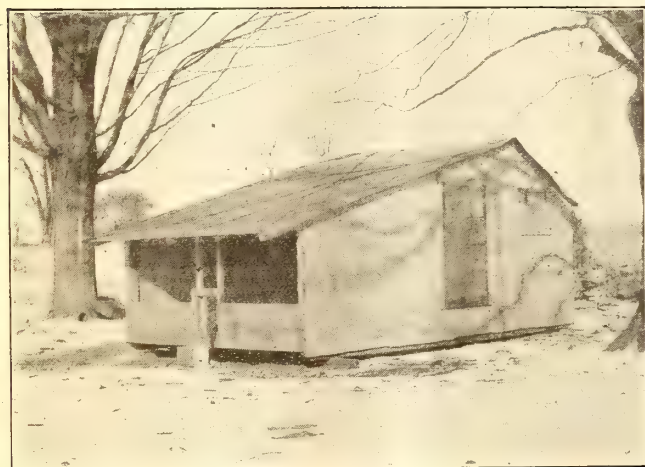
No fussy interior fixtures that hinder efficient cleaning.

Dropping boards 2 feet from floor and roosts 1 foot above boards.

First roost 12 inches from wall, remainder placed 15 inches apart.

* * *

Poultrymen are realizing more and more each year that skill in rearing and producing poultry meat and eggs is not the only essential for success. Profitable disposal of the season's out put now ranks equal in importance in determining the success or failure of a poultry business and is something probably more difficult to achieve. Practical up-to-date methods and formulas are now so accessible and widely distributed that each year sees a decrease in the number of failures due directly to lack of knowledge and mistakes in feeding, incubation and brooding, and an increase in those traceable to the employment of unprofitable schemes of distribution. Too many poultry raisers are forced to depend mainly upon the ordinary wholesale channels of outlet at ordinary wholesale prices that seldom allow a profit over the retail prices they are forced to pay for their supplies. Much has been said concerning the development of special markets for the meat and egg branch of the poultry business, considerable more than is seen regarding the disposal of surplus cockerels and pullets, of which latter it is my intention



A satisfactory open-front colony house, 8x14 ft., as used by Maurice H. Decker. There are ventilating doors in both sides at rear, above the roosts, for use in hot weather. See "Midsummer Management of Poultry Yard."

to write describing the means we employed last season to successfully move our surplus stock at good profits. My attention was turned in this direction two years ago while visiting an egg farm of some size where White Leghorns were bred. The proprietor showed me a flock of about two hundred immature pullets penned up and being fattened for market. "Each one of those birds," he said, "will mean a clear loss of twenty cents when they are marketed. I can't afford to winter them over for spring and summer eggs, as my laying houses are now full of earlier hatched stock and I had to hatch them to be sure of having enough layers for the season. I have tried with little success to work them off as breeding or laying stock and the only way now is to ship them to market where they will each net at least twenty cents less than they cost me to raise."

This started me to thinking that we were ourselves every year selling a number of surplus pullets at a loss and I resolved to improve, if possible, our methods of marketing this class of our offerings. Accordingly last season we spent nearly as much thought upon the problems of selling as we did upon those of hatching and rearing, with results that paid well for the trouble, as I will show.

Accordingly along in early fall when the broilers were all sold and some of the early hatched pullets had begun to lay, we moved two new colony houses up close to the public road, cleaned and whitewashed them and placed in each a carefully selected pen of pullets. These were selected strictly for uniformity of size and shape. We have learned by experience that an extra good bird in a pen of fifteen usually passes unnoticed, but a poor one, poorer than the others, is spotted at once. Each house was neatly fitted up with new nests, metal mash hoppers, drinking fountain and an automatic feeder, the whole presenting a very attractive and complete unit of layers. The fowls, even the ordinary quality ones, were carefully washed and gone over for off-colored feathers, the same as if intended for the show room. A sign reading "Laying Pullets for Sale" was hung upon each house and customers awaited.

These two pens were our highest priced birds, priced purposely high, as we did not care to sell them immediately. They were our advertisement and an excellent one they proved to be. To a man with even a very slight interest in hens the sight of fifteen busy, singing, scratching, cackling pullets in a new clean house fully equipped with all the attractive apparatus of the chicken business down to fresh eggs in the nests, is an irresistible selling argument. And to people who before had never even dreamed of keeping hens such a sight aroused at once a covetous instinct that proved profitable to us. As we had plenty of other pullets also washed and preened to look their very best at prices that ranged from 80c to \$3.00 each, it was not difficult to effect a good per cent of sales. Even a very ordinary pullet, such as we sold at \$9.60 per dozen, looked to be worth double the money when displayed in this fashion. Our youngest and consequently cheapest pullets were sold mainly to people desiring a cheap start with pure bred stock. The possibility of hatching out quite a number of good birds in the spring from them if well taken care of and fed liberally for development was our special selling argument in these cases.

* * *

The principal requirements of a satisfactory colony house are good ventilation, plenty of light and protection and comfort for the fowls it shelters, such a combination of good points making it perfectly adapted for all ages of chickens, from baby chicks to layers. The accompanying photo shows a type of building we have found to successfully furnish these and in addition to be easy and economical to build and of light weight, which makes it easily moved from place to place. In fact, we know of no other style of poultry house that gives more floor space for a definite amount of lumber—that in 8x14 ft. size is easily pulled by two horses.

This house is 8 ft. wide, 14 ft. long, 4 ft. high at the rear, 6 ft. 2 in. high at the peak, which is 4 feet from the rear, and 3 ft. 4 in. high in front. It is built upon two 2x8 runners 12 ft. long, which are chamfered at each end to make hauling over uneven ground practical, and notched to receive the six 2x4 joist. These are nailed to the runners, the frame squared and braced by diagonal pieces of 2x4 nailed across each corner. The floor boards of 1x6 inch matched stock are next laid and the studs toe-nailed on top of them. This eliminates cutting the boards to fit around the studs, as would be necessary if they were nailed direct to the sub-frame. Three rafters, two rear, two center, and two front studs all of 2x3 stock are used. The window and door straps are of 2x2 and when in place the frame is covered first with 1x6 matched flooring, with the smooth side in, and next with 3-ply roofing.

Upon each side at the rear is a 2x2 ft. ventilating opening, covered by a wooden shutter, and opposite the large sash is placed the door. Two roosts of 2x2 are put in the rear 15 inches apart and the rear one 12 inches from the wall. Four nests upon each side wall in front of the door and window and a dry mash hopper complete the interior furnishings. During hot weather the fowls are kept comfortable by opening the door sash and ventilators and in winter they are amply protected by the depth of the building and its low head room.

In unusually severe weather we stack corn fodder up against the rear and side walls and cover the open front with loose woven burlap screens. This gives the protection of a cave or "bank" house and even our Leghorns do not suffer from frozen combs in these houses. Built from new material these colony houses cost us \$28.00 and accommodate from 25 to 30 fowls.

* * *

During the months of July and August a sufficiency of greens must be supplied fowls upon restricted range if the young stock is to continue its steady growth and the hens effect a healthy rapid molt and be in shape to lay a few dozen high priced fall eggs before the cold of winter shuts them off. For the back yard poultryman a mixture of lettuce, kale, oats and spinach is excellent to broadcast in a corner of the poultry run. The oats should be soaked over night and sown by themselves, as they do not mix readily with the smaller seeds. Given plenty of moisture, which the back-yarder can usually supply with a hose, this mixture will make a thick rapid growth and if protected by a wire frame to prevent its being eaten off too close will last until fall.

For larger flocks we sow sweet corn, sorghum or kaffir in thick drills and when it gets about eighteen inches high run it thru a feed cutter and mix with a wet mash. The sorghum and kaffir do better in dry localities, but our hens seem to relish the tender sweet corn the best.

Sex Control in Poultry Breeding

CHAPTER IV—Corroborative Evidence. *By Herb E. Sharp*

(Copyright, 1916, by Herb E. Sharp and Prince T. Woods.)



THE HOLSTEIN COW "Sunnyside" dropped eight heifer calves, and only one bull, her oldest daughter dropped four heifers and one bull, while the other daughters had dropped no bull to the date of my last information, her only son sold for \$1,000 as a calf, or yearling.

His sire was from a cow with a pronounced tendency in the opposite direction, and that he inherited his dam's trait is shown by the records of his daughters from the old cow "Bessie," three of them dropping twelve bull calves

and only one heifer among them, now what will be the traits transmitted by the son of "Sunnyside?" His dam was a strong female producing cow, and his full sisters have shown that they inherited their mother's character and this would indicate that the dam "Sunnyside" was of greater prepotent strength than the bull she was mated with, and when in normal health she probably was, but we do not know that she was in normal health at the time of mating. If the sire were above his normal strength, and she a trifle below, even for the day, the results could not be foretold until his daughters have closed their life records, or at least a number of them, then the question as to whether they will transmit to their progeny or not will be equally uncertain, for the two strongly developed lines have certainly been crossed, and the "Law of Mendel" may get its work in any time.

The old cow "Bessie" spoken of above was the dam of five heifers and three bulls from the same sire, the first one in turn dropped six bull calves, no heifer; the second one four bulls and one heifer; the third one two bulls. The daughters of this bull from several cows, taken together as a herd, show an average of about 75% bull calves, and the trait was so strongly marked that other breeders have called my attention to the fact that the "Bessie" family was producing a lot of bull calves.

Investigation soon revealed the fact that "Bessie" bulls, when bred to non-related cows produced a normal proportion of heifer calves, but when these daughters of "Bessie" bulls came into milk, then the abnormal proportion of bulls became apparent, thus supporting the theory which has been presented, that the sire does not influence the sex of his own progeny, and also showing clearly that the sire does transmit

to his daughters the traits of his dam, and there is nothing of Mendelism in that.

On account of the fact that this family is running so strongly to bulls I have not taken the time to trace back the trait further than indicated, but the family is registered and the records are preserved by the Holstein-Friesian Cattle Club, and are available to any one who cares to investigate.

At least one prominent Holstein breeder, when buying a "Bessie" bull to place at the head of his own herd, said: "The only fault I see in them is their large proportion of bull calves." That remark was made before the purchaser ever heard of this theory of sex control, and the owner of the herd of "Bessies" was somewhat exercised over the condition,



One of the many prize winning White Wyandotte females owned by J. C. Fishel & Son, Hope, Ind.

for cows of the family, that were real strong in the blood were rather a scarce article, and as production was up to a very high point, one of them holding a world's record for her age, they were thought to be exceptionally valuable.

Several theories of sex control had been tested very faithfully on this family, but without any apparent result, the bulls continued to come, and as milk and butter production remained on a high level, it was comparatively easy to find sale for the bulls, so the trait has been fairly disseminated.

As an example of independent investigation that has arrived at a quite similar conclusion, the following letter is presented, it appeared in *Hoard's Dairyman*, in 1915, over the initials C. S. B., and I have no further knowledge of the author, but quote the letter as published:

Dear Sir:

There were twelve calves born on my place in five years, all were heifers. One cow dropped one heifer, then twins, then one heifer, then twins again, one of these being a hermaphrodite.

The first calf from this cow dropped two calves, both heifers, the first pair of twins have both freshened and both dropped heifers.

One of my neighbors has had a similar number of calves



A new view of the eastern front of the homestead and editorial offices of American Poultry Journal, The Anchorage Farm, Silver Lake, Mass. June, 1916.

dropped, and all are heifers, while another neighbor has had but one cow and her calves have invariably been males.

We are compelled to take our cows away for service, and have had them bred at various periods of heat, and to different sires, this depending on our convenience.

I believe that sex depends more on the dam than any other factor, some females bear males invariably, while others bear females invariably, and still others bear both sexes.

Yours truly, C. S. B.

Here we have not only various periods of heat, but also various stages of the period, various sires, and probably various ages and conditions of the sire, but we have certainly uniform results, when two cows owned by different men produce calves all of one sex, and their daughters all do the same, there can be but one answer, and that answer is heredity.

An imported Jersey bull, whose dam dropped eight heifers, and only one son, was bred to a cow that dropped 6 daughters and 7 sons, two of the daughters have left records available, that show 7 daughters and 4 sons for one and 6 daughters and 3 sons for the other, and I have no doubt that if complete records were available for the other sisters to these cows they would show similar results, for five generations later we find two full sisters with records of 6 daughters and 1 son, and 5 daughters and one son, while the daughter of one of these has started her career with one daughter.

In this same family such records as 6, 7 and 8 daughters and 2 sons are regular occurrences, and while I have searched carefully, all records that have as yet been placed within my reach have shown a strong preponderance of female calves.

The imported bull that laid this foundation was produced

by mating his dam to her own sire, and back of that are said to have been forty years of close in-and-in-breeding.

The available records of many grade cows that trace their Jersey blood back to this old family, have shown quite similar results, and again there have been no exceptions to the rule of more heifers than bulls, one of these dropped 7 daughters but no sons, and one of her daughters to date has 4 daughters and no sons, the other daughters have been dispersed, and records are not available.

Now if these were the records of selected cows, they would not be of any value, but I have learned of the existence of a cow at some distance, secured something of her pedigree, then asked for her record, without indicating what I wanted that record to show, and these figures are the results of the inquiry.

Under no possible hypothesis can any reasonable explanation of these phenomena be made save that of heredity, here we have daughters following with close similarity the records of their dams, and not alone in a single group or family but in widely separated groups and under the most diverse conditions imaginable covering a period of eighty years, or about that time, where intense in-breeding has been continually practiced, and where milk and butter production were the only objects of interest, yet in securing the high-marks of record breakers, these various families have been developed, and their sex producing tendencies have been either ignored, or simply condemned for being so strong to males.

The fact that these records were made under the hands of men who were paying little or no attention to the production of the different sexes, should give them greater value as evidence that, in some manner, the sex tendencies may be transmitted, if it be admitted that some females produce invariably calves of one sex, or even approximately all of one sex, then it must also be admitted that the same female is to some extent liable to transmit that trait to her daughters, and sons if she be fortunate enough to produce them. This is especially true where both sire and dam trace to the same individual, with a clear cut and definite disposition.

Of course where indiscriminate crossing of two or more families is continually practiced, there need be little hope of uniformity, in any character, being found. A cow may have all the great producers in her breed for ancestors, and not a single close up parent that is a real failure, and yet in spite of her ancestry be a hopeless case so far as profitable production is concerned. This may be better understood as a result of crossing blood lines that set up various and varied conflicts in attempts that each line is sure to make to dominate the entire individual, no one can be all black and all white at the same time, and mixing black blood with white, is certain to lead to trouble, sooner or later. If this is true of external features, it must also follow with the internal organs.

If we cross, for instance, Holsteins with Jerseys, or Minorcas with Leghorns, we know that milk and butter, or egg producing ability are all going to go to wreck in a short time, and we know, too, that color and conformation are going to wreck as rapidly as they can, then why should we expect less damage to those delicate organs, the ovaries? They hold the master key to all the laws of heredity, and are governed entirely by those laws, then how can we expect them to ignore the great principle that we all recognize when we see the finished work of those same delicate organs? If disaster should follow the crossing of two separate breeds, then we may well expect disaster, in a slightly diminished form, perhaps, from the crossing of two separate families in the same breed.

It is admitted that the introduction of "New Blood" must be done with care and a great degree of intelligence, if at all, to avoid the wreck of desirable qualities, yet it has been strongly urged that new blood is necessary for the maintenance of vitality, constitution, etc. The great "Stoke Pogis," probably as good as any Jersey sire ever brought to America, was the result of close in-breeding, the cow "Purest" was seven-eighths the blood of her sire, and the other one-eighth was related to him very closely.

These are not isolated cases, but they are well known examples of intense in-breeding, and many more might be quoted to the same end.

In-breeding has been accused of producing sterility, but there is not a single case on record where it has been proven.

guilty, the mule is sterile and it is the result of a cross, can that be answered?

A Philadelphia doctor, and dog fancier, after several years experimenting and careful breeding, finally announced to his friends that he had discovered sex control, and that he had developed a strain of dogs whose puppies were averaging a high percentage of males.

The friend suggested that he mate some of his all male producing dogs with some females that were known to have given more females than males. The results were disastrous, for the females produced just as they had in the past, more females than males, the doctor then announced that sex control would never be discovered, for it was one of Nature's hidden secrets; mayhap if the worthy doctor had been more patient he could have mated those same dogs to their own daughters from those all female producing dams, and in time, if he were persistent, he certainly would have developed the fact that the dam controls the sex of her progeny, without the aid or consent, as we used to say, of any foreign nation.

The dam controls the sex, she has to nurture the young, so why not control some things in regard to them? It is enough that the male should appear only in the role of a transmitter, and if he but transmits the good qualities of a dam that had no bad ones, he has done far more than the most of the country sires we have.

Let us value our breeding stock principally for those characters that may be hereditary rather than those that may depend largely on external conditions, for instance, a cow, Tillie Alcartra, gave 30,000 pounds of milk in one year, but if she had had only half the feed she would not have done half so well, so the question of feed entered largely into the making of that record, and while her ability to consume great quantities may and may not be transmitted to her progeny, there is nothing in the record itself to indicate her prepotency.

A steam engine may run 100 miles an hour, but if we keep it going at that rate for hour after hour we may not have any engine left the next day, and the same thing is true of a cow or a horse, or a hen, if they be driven at top speed for too long a time they are apt to be weakened, and instead of producing better progeny they are apt to give us weaker stock. But having the ability to stand high pressure, and to maintain the speed for a long time, if we give them such exercise as may be required to maintain a rugged condition, they will reward us by giving us progeny capable of going even further and faster than they themselves could go, and what boots it whether we know just how far and how fast they can go, so long as we know that each generation is better than the last?

Is not the girth and shape of a cow of more value in computing her worth than the fact that she made 30,000 pounds of milk in a year? Is not the weight and length, from tip to tip, of a hen of greater value for computing her worth as a breeder than the fact that she has laid 300 eggs in a year? And last, is it not of more value to know that a cow will give her owner six or eight good profit earning daughters of greater value to the dairyman, than the fact that she has produced an enormous quantity of milk and is giving six or eight sons and no daughters? To the poultry breeder whose annual hatch is one-half cockerels, the hen whose chicks average eight or nine pullets to one cockerel would be quite like a dream of heaven, yet probably in every flock of pure bred and intelligently mated fowls there is likelihood of finding such a hen.

Three hundred eggs per year does not indicate prepotency, but nine pullets for each cockerel in every hatch is something, and if this be backed by a long pedigree showing intense concentration of the blood of some fine individual, then we have a very accurate test, and can build intelligently, both for greater percentage of females and a greater ability to produce the golden eggs and at the same time rest assured of steady and permanent increases in the size and weight of our stock.

Now let us look at some of the lower orders of life, the plants in our fields, and we find some new thoughts. Here is our common corn; corn is hermaphroditic, that is, each plant develops the organs of both sexes, and this is common in nearly all plant life, some there are, like some of the strawberries, and some others that carry only the organs of one

sex, and this is very unusual in these lower plants. Now does anyone question that, here at least, sex tendencies, as shown by a disposition to produce hermaphrodites, is hereditary? Or is it to be shown that the Pistillate varieties of strawberries are not inheriting the character from their parents and transmitting it to their descendants? And if these forms of life carry their sex characters as hereditary traits, then we can well demand that those who doubt our contention shall at least present the evidence and show at what time in the great scale of evolution from the plants to the animals the power to transmit this greatest of all characters has been lost.

Plants have the power, and have held it since the beginning of life, some rare cases of animals have been cited, with the evidence that some have shown their ability to transmit their characters, some have lost the power thru indiscriminate crossing of the blood lines of different families, but this does not preclude the possibility of finding by careful search those few who still retain the happy faculty.

We might go on forever adding to the score of definite cases where one or the other sex tendency has been faithfully transmitted from generation to generation, if our case has not been proven, then any other character may as well be denied the power of inheritance.

In all other characters the power of inheritance is conceded on far less definite evidence, except the veracity of the writer be called into question, and this can be shown only by a comparison of the records referred to, which are the property of the cattle clubs mentioned. If a cow has a spot on her side and the same appear on one of her calves, we immediately credit the law of inheritance for the mark, without waiting to see if the next calf or the daughter's calf will show the same.

The cow "Sunnyside" dropped eight heifers and one bull, and when her daughter dropped four heifers and one bull, our case was as complete as the majority of breeders dare to demand of the laws of heredity, but here we have cited case after case, family after family, with registered, recorded pedigrees that are beyond question, then we have cited the plants that have never yet failed.

If a hen has a crest, and her son or daughter has the same, we credit the law of heredity: if her eggs are all a dark brown color and her daughter's should be the same, even with a weakened or lighter color, we still credit the law of heredity, and if a hen lays eggs that are long and slender, as a rule, tho an occasional one may be more round and even, let her daughter's eggs be the same to a slight degree and we credit that to the laws of heredity, and so when any breeder finds a female whose progeny is nearly all of one sex, numbers being duly considered, and the daughters of that female show a similar record, or the daughters of a son of such a female show a substantial degree of similarity, then we can clearly charge this result to the laws of heredity as well as the others.

While the pedigrees, with registered numbers, of the animals named might add somewhat to the authenticity of the evidence presented, space here is limited, and values of individuals named might suddenly be changed by the owners so that it seems better to leave the matter as it is, those who are fair minded have probably seen enough, and the rest would never be convinced if we wrote on forever, even as the babbling brook.

For some time California has had an olive day, orange day, grape day and raisin day, and now comes the announcement that an egg day is to be instituted and a campaign has already been started, urging the observance of the day thruout the state. On that day the men, women and children of the state are urged to eat all the eggs they can hold, served as suits their individual tastes—boiled, fried, poached, shirred, scrambled or raw.

The estimated value of poultry and eggs which will be shipped from Morristown, Tenn., during the current year is \$2,225,000, and indications are that this preliminary estimate may be largely increased by heavy shipments forecasted for the fall season.

Hail to the Beautiful White Orpington

Does Nice, Juicy, Tender Fried Chicken Appeal to You? Can You Resist a Deliciously Browned, Sizzling Roast, Bearing the Familiar Outlines of a Turkey? Third Prize Article in Aldrich White Orpington Contest. *By S. B. Brennan, Berwyn, Ill.*



WHAT PROGRESSIVE BACK-LOTTER has not asked himself, "I wonder what breed will give me the best results, which are four-fold?"

First—Eggs. Large, attractive, uniform and, above all, many of them, particularly when prices are high.

Second — Meat. Delicately flavored, tender, lots of it, particularly breast meat, and (lest we forget) the breed best adapted for early broilers.

Third—Appearance. Poultry that I can take pride in and enjoy showing to my friends and neighbors, in fact an ornament to the place. If keeping poultry is to be my hobby I want the best, as I also desire to show my birds at a local show or two just to see how they stack up.

Fourth—Docility. Birds that are tame and easily handled. As a back-lotter, after having made a thoro test of four varieties for the breed that best suits my purpose as a general purpose fowl, I chose the Single Comb White Orpington and I heartily recommend them to others for the reasons that follow.

The White Orpington, altho a heavy fowl, is a very good layer of brown or tinted eggs, particularly in the winter when eggs are high. This does not mean that they are not good layers all the time, as I have found in many tests that even in summer they average up better than many of the so-called egg breeds. One of my Orpington hens laid 203 eggs in one year and six of her daughters in their pullet year averaged 135 eggs each. With many people "eggs is eggs," but do you ever stop to consider a dozen eggs from a weight standpoint? About a month ago I noticed some eggs at a soda fountain and picking out a couple at random I found the total weight of the two eggs to be three and one-fourth ounces or nineteen and one-half ounces to the dozen. The eggs from my flock of Orpingtons average consistently from twenty-five to twenty-seven ounces per dozen and I have selected them weighing thirty ounces to the dozen. You egg lovers, jot that down.

Does nice, juicy, tender fried chicken appeal to you? Can you resist the appeal to worth in a deliciously browned, sizzling roast, bearing the familiar outlines of a turkey? If you are an epicure, I would like to see you beat a young White Orpington, even tho the skin *was* white before being

cooked. And when we have guests to chicken dinner on Sunday, we like to feel that there is something beside bones left for the family on Monday.

The yellow skin and the white shelled egg are mythical delusions which some people carry with them, because—well, now has anyone ever really discovered why yellow skin and white shelled eggs are preferred in some markets? I have yet to hear of any real reason.

To show the fallacy of the yellow skinned, yellow legged fowl being the best for market purposes, a prominent White Orpington breeder told me that when he broached the subject of having a butcher handle White Orpingtons, he was told that they would not be good sellers on account of the white skin and legs. The butcher was urged, however, on the promise of reimbursement, if his claims were justified, to try some out on select trade, with the result that the breeder could not supply the demand. This shows that the White Orpington as a market bird has come to stay and needs a little judicious pushing by its breeders to show the public what its merits really are. As broilers, the Orpingtons are in a class by themselves for delicacy of flavor and quick growth.

If you are looking for beauty of plumage and carriage, just go to the White Orpington section of any of the large shows, and you will have to agree with me that there certainly is a great fascination to look over the well proportioned and beautifully shaped Orpingtons.

If you were at the last Chicago Coliseum Show, and saw the best array of White Orpingtons that it has ever been my delight to see, you will partially understand me—for example, Quality Prince, the first cock, which prior to that also won first cockerel at the Coliseum in 1913. Now this bird, while a fine specimen of show bird, is also a fine breeder of the laying strain type, as he is the sire of the White Orpington pullet which led the National Laying Contest at Mountain Grove, Mo., last season, laying two hundred eggs in nine months and twenty days before it died August twentieth.

Did you ever visit a friend's poultry yard and try to get near some particular bird that he was endeavoring to call to your attention? How close could you get? Ten feet or possibly not that, particularly if they were any of the flighty breeds. Flightiness is a great detriment particularly to the back-lotter, who works at the shop or office and has a minimum amount of time to spend with his fowls. To my mind, a docile fowls that will allow you to pick it up at will, whether to attend to an injury, condition for a show, or to exhibit its best points to a friend, or prospective purchaser, displays the qualification that is the slogan in the business world today, namely "efficiency."

The Orpington hen makes an ideal mother. She is steady and reliable, gentle to handle and not excitable when you have occasion to disturb her.

Summing up the matter, I consider the Single Comb White Orpington to be an ideal fowl because of its ability to lay many large uniform eggs; chicks grow to broiler size in short time; they are without a doubt a peer in the yard or in the show room; are easy to handle, hardy and not susceptible to disease—in short, they cannot be beaten for beauty and business. The accompanying snap shot will bear out my statements. In closing I would say that I have never failed to make a sale to a prospective customer after he has seen the birds. Hail to the beautiful White Orpington!



A trio of thorobreds. See article "Hail to the Beautiful White Orpington."

Frank and Charles Troutman and Sidney Sherman, who have for some time been operating the Marwood Poultry Farm at Marwood, Pa., have sold the farm and business to Le Moyne Graham, of Butler, and William Pfister, of Woodbine, the latter to have charge of the business.

The Use of Capons as Foster Mothers

How to Stop Losses from Hawks and Crows That Runs into Millions Annually. *By S. K. Burdin, Toronto, Canada*



ALL THE CHICKS stolen annually by hawks and crows were put in one great heap, or their equivalent in dollars and cents could be determined, we would stand aghast.

I am going to tell you, in this short article, how to prevent a large share of it; how to save these chicks for your own use and profit, and how to send these thieves off to live on frogs and mice, as all hawks and crows should do.

All the loss to the poultry industry thru this source, however, cannot be easily determined, because of its untangible nature. When one realizes fully, as we should do, how much faster chicks will grow when raised under *free range* conditions, and how thru fear of these dread thieves chicks are confined and reared in cramped, grassless, unsanitary runs, we will begin to understand the importance of this question.

Another reason for confining the mother hen to a coop or small run is her destructiveness: If allowed her freedom she will scratch and dig up everything about the yard and garden. To prevent this she is confined—the chicks soon find their way out of her reach and Mr. and Mrs. J. Black-Crow bring up their own youngsters at your expense.

On the other hand, even if the hen is allowed her freedom, just when her brood need her protection most, she weans them and they are left motherless. They are bold, venturesome and inexperienced at this age and are an easy prey to Mr. and Mrs. O. U. Hawk.

These conditions are not confined to rural districts alone. In suburbs of our large cities and in villages, in fact everywhere where chicks are raised, their unexpected and unwelcome visits are the constant nightmare of poultrymen, who dread to count their little flocks at night, knowing full well that in their absence during the day the kidnappers have taken their usual daily toll.

Raising chicks is a many sided problem. It is not my purpose to go into details on any point except the matter of brooding and protecting them until large enough to be out of reach of their winged enemies.

In country districts, where free range conditions are almost ideal, the hen is the recognized standard means of brooding today and, as difficult as it may seem, I have set myself the task of changing this: Changing it to a method *so far superior* in every way that *you cannot* afford to overlook it, from the standpoint of either pleasure or profit.

A capon is a gelded or castrated cockerel, and a most valuable acquisition to any flock. The operation is known as caponizing, and with suitable instruments and a little practice it can be performed in much less time and trouble, than can a similar operation on any of our other food animals, like calves, lambs or pigs.

When a cockerel is caponized his whole nature is changed from that of a rough, noisy quarrelsome fellow, to a bird as gentle, refined and affectionate as a pullet. A little handling and they become very tame and enjoy being petted. They never crow unless used as foster mothers—then when chicks are about half grown they crow from sheer joy.

Now, I know many will not believe that it is possible to teach a male bird to brood, cluck and fight for little chicks, but the fact is they can be and are, and that they beat a hen at her own game so badly that I have yet to learn of a single case of returning to the use of hens or brooders when capons have been once tried.

The accompanying cut is from a photograph taken by myself of one of my capons hovering 24 incubator-hatched chicks three weeks old. He raised this brood, under free range conditions, to maturity without the loss of a single bird from hawks or crows, while my neighbors on all sides were losing them by the score.

This is not an isolated case. I have used them for four years under the same conditions and never suffered a single loss. One year a neighbor had a fifteen-acre cornfield adjoining my place. The capons with their broods would disappear in this cornfield in the morning, and remain till noon, and then disappear again till feeding time at night. They take their charges afield, like a hen turkey, excepting they walk slower, giving the chicks more time for hunting. Their head is held high, their vigilance untiring and their warning note is loud, clear and commanding. My Scotch collie learned to recognize this note and would give chase to the intruder until stopped by some fence.

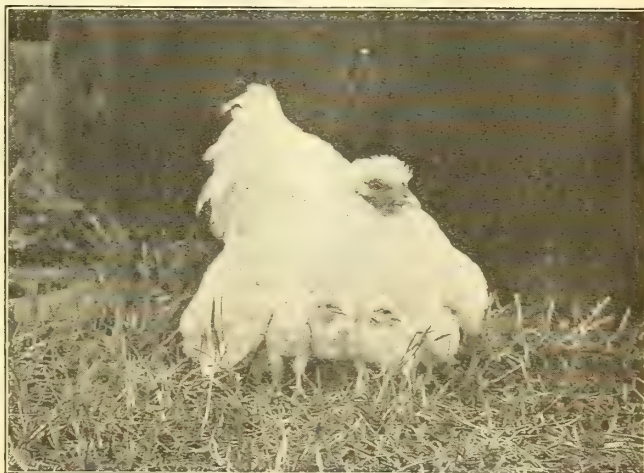
The capon's discipline in his brood is marvelous: He will chastise a half grown chick severely for an apparently trivial offense, but I have never had one kill a chick for any cause, even when changing coops during a sudden storm. As a result of his ranging habits and good discipline the chicks hold together, keeping in a compact little flock. No chicks straying and straggling about, outside his real reach and watchful eye. When he takes them into the shade for a drink and rest, they are all glad and ready to sit down and sleep until he calls them for another trip, when they will start unanimously and promptly.

This program is carried on day in and day out and month in and month out until the chicks weigh four or five pounds each and wean themselves. If perches are properly provided he teaches them to roost as soon as old enough.

When chicks are young, the capon will scratch for them some, but never so frantically as a hen. He just naturally seems to think of protecting them from their winged enemies. He holds his head high and surveys the surrounding country constantly, while his family are as busy as bees, in the grass, looking for bugs and worms.

While, as a fighter in their defense a capon has absolutely no equal, yet on account of his greater size, dignified and commanding bearing, tame, docile and affectionate disposition, quick perception between real and imaginary enemies, he seldom ruffles a feather or is called upon to put up a defense. But if the occasion does arise he will do real battle and not squall and fluster about like some fool hens will do every time you or any one else appears. His whole conduct is so easy, graceful, efficient and satisfactory that he makes a hen appear like a novice.

When his work is done and his brood out of danger, you have one of the choicest delicacies, ready, without any fattening usually, king or peasant ever sat down to eat. Capons do not get tough, strong and unpalatable with age as do cocks and hens, but are sweet, tender and juicy, their flesh rivalling and excelling that of a fat young hen turkey.



A capon hovering 24 incubator-hatched chicks, three weeks old.

Why I Chose the Barred Plymouth Rock

To Assert That the Barred Plymouth Rock Leads in Artistic Merit May Seem to Some a Sweeping Assertion, but I Am Prepared to Back Up the Claim with Conclusive Reasons. A Contest Article. *By F. W. Proctor, North Brookfield, Mass.*



IN SELECTING A BREED of poultry, I chose the Barred Plymouth Rock because in point of color, considered from the artistic point of view, it outclasses all other breeds. Because with all its excellence it looks to great color improvement in the near future. Because its color scheme allows entire flocks to remain attractive. Because its breeding problems appeal to experts. Because of its standing as a permanent interest, many of its large army of breeders having been in line from its introduction as a breed in 1869—a record unmatched in this day of fluctuating interest in breeds.

To assert that the Barred Rock leads the van in artistic merit may seem to some a sweeping assertion, but I am prepared to back up such a claim with conclusive reasons.

We occasionally meet a person who seems oblivious to the charms of a breed so plain in appearance as the Barred Rock. I had one summer for a neighbor, a man who made free to claim considerable of my time in discussing the breeding problems of his favorite breed, and yet never from spring till fall condescended to show any interest in my Barred Rocks, further than once to remark that he "could never see any beauty in a Plymouth Rock!" But that was an exceptional case, for it is within experience that the Barred plumage commands general admiration. In this respect it may be likened to some masterpiece of art which the generality of people, no less than qualified judges unite in praising.

Now this transient neighbor of mine was not color blind, nor an ignoramus. A man of liberal education, holding a position as school superintendent, but, like many others that our higher institutions of learning turn out, was wanting in esthetic discernment. With eyes attuned to the riotous color of his chosen breed, little wonder he should fail to recognize merit in a modest clored fowl.

The primitive races of men are distinguished by a fondness for colors crude and wanting in harmonious effect. And the tendency of civilization is to curb this extravagant taste and set up ideals of beauty in quiet tones of color, simplicity and harmony. This idea is well expressed by Emerson, when he says in praise of a sober hued bird, "Henceforth I wear no stripe but thine; ashes and jet all hues outshine."

"Ashes and jet" nicely describes the Barred plumage. Simplicity is the key note of its color scheme, and simplicity is a leading essential in art. That the Barred Rock's plumage, strong in this element of simplicity, is in the highest degree artistic, is possible of demonstration, as I will proceed to show.

Another essential in art is harmony, and this element the Barred plumage possesses in a notable degree. This appears in the color uniformity of the plumage as a whole, so that a specimen pleases according as the body color holds to a uniform shade.

Then comes the crowning effect, arising in the alternating bars of color, beauty developing in the degree of the perfection of this pattern. The greater the regularity of the bars and the depth of their contrast, within proper color limits, the more complete the artistic effect.

In the Barred plumage as we now see, we have the art requisites of harmony and contrast, without conflicting with simplicity. Then as a finality, we have in the Barred plumage the artistic effect arising in complementary color, which exists in the color contrast between the plumage and the unfeathered parts of the body. For there is no possible color of plumage to compare with the Barred Rock's neutral tone to set off the red of the face, comb and eye, and the orange yellow beak and legs.

Let us now digress for a moment to consider the inconsis-

encies comprised in our color specifications of breeds. It is a singular fact that scant consideration for the principles of art has been shown here by fanciers, especially as new color varieties are produced. Art enters into most human activities save the color varieties of breeds of fowls. We adopt a color for shanks and ear lobes, assign a breed name, and then, ignoring color harmony, exact that all its varieties wear the same, regardless of consistency with plumage color.

The color of face and comb—save in that rare type known as gipsy face—is a constant color feature, and so naturally constitutes the one dominant factor to determine that plumage color most effective to complement the same. Shape, size and color of comb, together with that rich, red color which marks a perfect physical condition, have properly been conceded great prominence in establishing exhibition quality. But the comb's importance as dominating plumage color in order to procure the most subtle effect—derived from color contrast of the two—has escaped attention.

A solid white, as well as a solid black plumage, sets off the color of face and comb agreeably. But it remains for the Barred plumage, presenting as it does the finest effect arising in complementary colors in juxtaposition, to claim the highest place. This arrangement in color composition is a favorite one with painters.

Concentration of interest, by means of judicious placing of colors, is an important element in art. The woman whose beauty is crowned with hair of Roman gold (favored of old masters) attired in neutral tones of color, is a more subtle subject for the brush of the painter than with conditions reversed—the warm color located in the costume and the hair in neutral tone. The skillful painter thus concentrates attention upon the chief center of interest, to which other portions of his work are studiously subordinated. This principle in art is of the utmost importance.

Turner, the great English artist who has been styled the greatest of modern painters, craftily entered for exhibition at the Royal Academy a marine view which was the extreme of simplicity in its prevailing gray scheme of color, and as such was appropriately hung with reference to the color tone of surrounding pictures. At the last moment, Turner produced his palette, with red color, and proceeded to paint a high light upon a buoy in the foreground, thus supplying the hitherto wanting center of interest—with the effect to "knock out" all around it.

This well illustrates the vital importance of holding the use of glaring color to its consistent purpose of putting the finishing touch upon a work of art, and the same finds application in poultry as in pictures. With our Barred Rock, the neutral toned plumage complements the specimen's "high light" of the face and comb, and by color relief heightens the beauty of the head. This feature in turn supplements the plumage color, but by its small volume of color does not rob the plumage of interest.

I am sure that the fraternity of breeders of Barred Rocks, impressed with their beauty, but unfamiliar with their position according to art standards, will rejoice to read that their beauty is amply demonstrated by the theory and practice of color as recognized by artists. This breed whose popularity is so well established, the charm of which is so generally attested, suggests those lines of Keats:

"A thing of beauty is a joy forever.
Its loveliness increases; it will never
*pass into nothingness."

G. W. Roberts, a wealthy ranchman, is planning the establishment of a large poultry ranch on a tract of eight sections of land he owns near Alpine, Texas. He will make a specialty of raising turkeys.

A Beginner Chooses a Variety of Poultry

It Is As Desirable for the Poultry Journals and Breeders to Set Forth the Good Qualities of the Different Breeds As for a Merchant to Display His Wares. *By S. W. Exley, Saskatoon, Sask., Can.*



UNTIL MAY, 1914, I did not know a cockerel from a cock bird—in fact, I knew nothing whatever about poultry. In reality, poultry culture held no interest at all so far as I was concerned; it was a closed book to me.

I followed my trade as engineer, until the hard times hit this part of the country. In July, 1913, I was offered my present position as signalman at a station three and one-half miles south of Saskatoon, out on the prairie. To be candid, I did not care much for it. I was used to

living in the city and the isolation did not appeal to me. After a year, however, I began to like it and to be more and more interested in country living.

I noticed that everyone living out in the country kept chickens, tho I believe they were all scrubs. In May, 1914, a man who was working with me offered to sell me a black hen sitting on a setting of eggs for \$2.50, the price to cover both eggs and hen. The eggs had been under her for a week and as he was anxious to make the sale, he promised to keep the hen on the eggs until they hatched. It seemed to me to be a lot of money to pay for a hen and unhatched chickens, but I finally decided to take the risk.

Two weeks later ten chicks hatched and when they were two days old I brought them over to my place, fixing up a box for them and a runway of old boards. For a week or so I kept a pretty close watch on them, going out every little while to see if they were still living. While they were still small a part of the boards fell down and killed two of them and two others died from some unknown cause. I raised six to maturity, and decided that I had not made such a bad purchase after all.

During July of the same year a neighbor asked me if I would take nine Buff Orpington chicks at twenty-five cents apiece and the hen mother at sixty. After due consideration I decided to make the purchase.

When I had brought these chickens home and housed them, it seemed to me that I had a regular poultry farm. The little buff chicks looked so nice that I liked them from the start—tho I had a liking for a white bird. I studied over and cared for these chicks during their development and by fall I decided to go into poultry raising—not as a business but as a hobby. I had made no definite decision as to the variety of fowls I would raise, but began to look about and take note of those raised by others and decide which was most suitable and attractive to me. In making the decision, the points which I carried in mind were beauty of form and feather and yet combining as many general purpose qualities as possible.

Along in November I went into a book store for a newspaper and while looking around chanced to see a copy of the AMERICAN POULTRY JOURNAL. I bought it, carried it home and read every page. I absorbed a lot of valuable information from it, but I found I was as far as ever from choosing a variety. Every breeder seemed to be convinced that his breed was the best, the most beautiful and altogether the most profitable, and thinking it over I came to the conclusion that this is a desirable state of affairs, for what hope of success has the breeder who is not enamored with the variety he is breeding? The question of selection of a breed is one which each prospective breeder should spend ample thought and time upon. No one can decide which is the best breed for a man to take up but the man himself. On the other hand, it is as desirable for the poultry journals and breeders to set forth the good qualities of the different breeds as it is for a merchant to display his wares. In anything to be decided the best way to prevent making a mistake is to acquaint yourself with the facts. Then think it over,

weigh the evidence from all sides and *decide for yourself.*

I made it a point to visit every poultryman within my reach and to get as much information relative to the breeds as possible. I realized that my decision must coincide with certain conditions such as my locality, the time I would be able to devote to the work, the amount of space I could give over to poultry raising, and my limited knowledge of rules of breeding poultry. From the information I gathered, I first discarded all parti-colored birds as being out of the question for me on account of having to double mate. At least it seemed to me that a solid colored bird was easier to make a beginning with. I finally sifted the matter down to a selection of a solid colored bird from American, Asiatic, English or Mediterranean classes and took every poultryman's word as to his breed with a grain of salt.

During January the poultry show was held here in our city and I went with the intention of making my final decision as to which variety to choose. The show was held in four buildings connected by corridors. In one building were white birds, another black, in another buff and red, and still another parti-colored birds. This gave me a fine chance to choose.

I looked them all over carefully and decided the white bird was the one for me. In the white birds of all varieties, practically every bird looked white, but in all the others there were different shades of color. All good looking birds, no doubt, but not the same uniformity of color found in the white varieties of the different breeds. I was pleased with my decision, but considering the number of white varieties in that "white" building I realized that I still had some task before me. But in taking another walk about I spent fully two hours in looking over every white bird and reached the conclusion that the Single Comb White Orpington was an ideal variety in respect to beauty, and upon investigation I found that they showed up equally well in other respects. My mind was made up and I was fortunate to meet with a breeder who gave me great assistance in selecting a suitable place to get hatching eggs.

One week after the poultry show, it was very cold here, the temperature dropping to about forty-five degrees below zero. The buff pullets I had bought in July started to lay during this cold weather—and they layed and kept on laying. The other brood which was fully a month older never shelled out an egg until the weather came in very warm in March. This lead me to believe that I was on the right track, as it is the general belief that one variety of Orpingtons is just as good as another and the matter of color is simply one of individual choice. During this cold snap, eggs were selling for sixty cents a dozen—just the time when I wanted to be getting eggs.

I have kept White Orpingtons since then and I am pleased to say they have fulfilled every claim made for them—and a little more in some respects. To one who has listened patiently and interestedly to all the superior claims made for the different breeds of poultry, that last statement may seem to be beyond the bounds of possibility. But it is the truth and I am not endeavoring to stretch it. I do not mean to say the White Orpington is the best variety—only that it is the best variety for me, tho I am equally enthusiastic over the White Rock which I have introduced in my yards this spring, and I expect to continue with these two breeds, both of which are good all-round varieties—beautiful, stately and majestic wherever seen. But the White Orpingtons always have first place with me.

Tho well satisfied with the breeds which I have adopted, I continue to see and admire the worth and beauty of all other varieties and to encourage the enthusiasts in poultry culture to boost their breeds and exhibit their wares that the world may see, and seeing become awakened and interested in one of Nature's most glorious handiworks—the domestic fowl.

"WE LEAD, OTHERS FOLLOW"

EDITORIAL

American Poultry Journal

Entered as Second-Class Matter August 9, 1886, at the Postoffice at Chicago, Ill., under Act of March 3, 1879

65,000 American Poultry Journals for
July, 1916.

State of Illinois, County of Cook, ss.:

G. M. Atwell, president of the Atwell Printing House, Chicago, being duly sworn, certifies that the American Poultry Journal has contracted for printing and binding 65,000 copies of the July, 1916, issue.

G. M. ATWELL.

Subscribed and sworn to before me this
15th day of June, 1916.

[SEAL]

HENRY G. EISERT,
Notary Public.

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AMERICAN POULTRY JOURNAL is the oldest poultry paper in America. It has a national and world-wide reputation. The best writers on poultry matters contribute to its columns. It receives the patronage and endorsement of the foremost representative breeders of standard poultry and manufacturers of poultry appliances in the country.

WITH US, and in many localities, the wet weather of this and last season has resulted in uncommonly good clover crops. We esteem fresh cut green clover and good, well-cured, short-cut clover rowen as particularly desirable foods for poultry — much better in actual practical everyday use than alfalfa.

If you produce more clover than your fowls require for daily use as summer green food, cut and cure it carefully for use next winter. It will pay you well to save your clover for poultry food.

We believe that second-crop clover or rowen is best for saving for winter poultry food. It should be cut when about four inches high. Mow in the early morning on a sunny day as soon as the dew has thoroly dried off. Let lay as cut until late afternoon, then bunch up into small cocks before the dew falls and protect with canvas covers. Cocks should be made as loosely as possible. If rain threatens, finish the curing in an open shed or under other cover, do not let the clover get wet. In morning spread it out to dry in sun. Continue cocking at night and drying by day until thoroly cured. Then put it in a loose stack for 24 hours. If it begins to sweat, spread it out and let dry. Stack again at evening and repeat stacking and drying if necessary. To avoid loss of leaves do not shake out the clover when spreading, spread and dry in small bunches. When well cured the clover should be run thru a clover cutter and cut into short lengths of from one-quarter to one-half inch. It can be stored in bins or in sacks and if thoroly cured will keep a long time.

Short-cut clover and grass clippings cut from the

lawn with a lawn mower can be cured and saved in much the same fashion. If the clippings are finished, after the first day, by stacking and drying under cover much of the rich green color can be retained. By cutting the lawn frequently and using a grass collector on the mower it is possible to obtain a pretty fair sized crop of short length grass and clover.

RIGHT NOW is a good time to buy breeding stock. Look over the advertising columns for summer bargains. A good many breeders are now breaking up their breeding pens and selling off surplus to make room for growing stock. It is a good time to buy.

Summer offerings will not always be attractive in appearance, as fowls that have been thru a strenuous breeding season are apt to be a bit ragged and weather stained as to plumage. But it is a good time to buy sound healthy stock birds and to moult them out on your home place.

Put summer purchases of breeding stock into a well grassed orchard or grove where shade, greens and insects are plenty. Keep them cool and comfortable. A roofed shelter, open on three sides and closed only on the side exposed to the prevailing cool winds and rains, is all that is needed to house the birds in summer quarters and they will rest up and moult out better under such conditions. Where a thick evergreen grove can be used they need no other shelter than the pine or spruce trees and will improve with outdoor living. Keep them in outdoor quarters until about the middle of September. Meanwhile get the winter quarters in readiness to

Save
Your
Clover

Buy
Breeding
Stock Now

receive them and renovate the runs by plowing and growing some quick crops to sweeten the soil.

You can save money by buying breeding stock now and conditioning it yourself thru the hot season and it will pay well to put the houses and yards—as well as the stock birds—into first-class condition during the next two months. Get busy!



QUITE RECENTLY one of our very good friends severely criticised the men in moderate circumstances who squander money on the "luxury of an automobile" assuming that they rob the family savings, "mortgage the home" and strain every nerve to "own an auto" or because of envy of more fortunate neighbors.

Maybe the desire to own a car and to keep up the pace set by others does tempt some folks into undue and unwarranted extravagance; but we are inclined to believe that the ownership and sane use of a modern motor vehicle will soon help broaden the owner's mind to a sufficient extent to rid him of a lot of foolish notions.

While an expensive car is undoubtedly a luxury and not a wise purchase for a poor man, the modern well-built low priced automobile is a present day necessity and we will be glad to see the day when every family possesses one and uses it. To our mind the automobile is one of the greatest and most useful inventions of the age and a great boon and blessing to mankind. With fine new models selling at a cost that does not exceed the cost of a good horse and outfit, and used cars, in fine mechanical condition, on sale at a cost less than the price of just an ordinary horse without either harness or vehicle, we do not see how any man, with much work to do that requires getting about, can afford to do without an automobile.

When we kept a horse and outfit—the first cost of which exceeded the present cost of a fully equipped up-to-date auto—the expense of maintaining the horse outfit exceeded a dollar a day right here on the farm. The horse had to be fed three times a day, it had to be groomed and exercised every day, whether we wanted to use it or not; every few weeks there was a necessary trip to the blacksmith that wasted half a day's time. The expense kept merrily on, whether we needed to use the horse or not, and we had to use it when we did not want to, because exercise was essential to keeping the animal in good condition. On hot or very cold days when long drives were necessary we felt as if we were imposing on the fine animal and always that desire to avoid any cruelty to a dumb beast proved a mental drawback when there was much hard work that must be done. Tho we like a horse and are still very fond of driving a good one, we decided four years ago that, for ourselves, the horse had to go. We can hire the use of a horse any time we need one for a very low price and we simply cannot afford to keep one.

The first year with an auto opened our eyes to the economy of a motor driven vehicle. It did not have to be exercised, it cost nothing when not in use, the upkeep for the same amount of work was far less than the upkeep of a horse. A few hours work each week kept the machine in fine running condition; it was always ready to go anywhere at any time and to get us back home again, and dis-

tance or speed brought no thought of "cruelty." Whereas a drive of 20 miles with the horse was a hardship, many times, for both owner and animal, the automobile made easy work of 100 miles, and 225 miles in a day could be made with comfort if necessary.

After four seasons' use we are still operating the same car, it is in good condition after carrying us many thousands of miles, we find on summing up accounts, taking into consideration all repairs, overhauling, new shoes, gasoline and oil, the actual annual cost of the auto has been very considerably less than our annual cost for keeping a horse and outfit. It has faithfully served us in many an emergency which, but for the car, might have proved a serious one to some member of the family. It enables us to live in the country and do our shopping and marketing in the city, to get our produce into market with the least expenditure of time and at the least expense. It makes it possible to take the family along for an enjoyable outing on business trips—and we really would not know how to do without it, not only for the pleasure it brings to all of us, but for the time and money it saves us.

When we see milkmen, butchers, fishermen, farmers, and dealers in all sorts of necessities, covering their routes between store and customers in motor driven vehicles, doing the work quickly and well and covering much greater territory in less time and with less effort; when we see "Tin Lizzies" hustling by in the early morning carrying a load of workmen to their daily labor in the shops at less expense than actual carfare; when we see the families out for the blessings of a fresh air trip in the country on holidays and Sundays; the physicians carried with speed to emergency cases; the strayed children brought home after a "run away trip" to the unknown city; the sick or injured comfortably taken to the hospitals that once were "too far away" and the host of other good works of the automobile, we are very thankful that such a necessary invention has been granted to mankind and we hope to see the day when every family owns its automobile just as in olden times the horse was a family necessity.

Only last week our fish dealer, who has bought a "Flivver" truck to take care of his business at "the cost of one good horse," told us: "It is the best roading horse I ever owned and it is saving me time and money; I told father today that if we had bought one several years ago, when the price was four times as great, we would have saved a pile of money and increased our business besides."

We cannot look on the modern, practical, useful, moderate-priced automobile as a luxury—it has become a family necessity and one should be owned in every home.



INDIVIDUALS—or groups of individuals—who are so thin skinned and narrow minded that they throw a fit over honest criticism or "knocking" should take a leaf out of the book of Henry Ford. Some folks are so constituted, and so cursed with exaggerated ego, that they cannot remain unruffled and rational under a fire of criticism or knocking,—whether it be honest or otherwise.

The breadth and depth of man or woman can be more or less accurately gauged by his or her ability to take and make use of the criticism and knocking

handed out to them. Oftentimes the person who proves a severe critic of our acts and deeds turns out to be a very good friend; provided we have sense enough to stay cool under the collar and profit by the experience.

In an interview in which he explained that his secretary, who receives all clippings of what is said about him, had positive instructions not to show him any favorable comment, Henry Ford said:

"A boost never helped me. They never get to me now. My secretaries put them in the furnace. *But I read the knocks.* I don't know it all, and now and then someone says something that gives me a new idea. Sometimes they show me where I am wrong, and I can correct it. *I learn from the knocks.* So, if you want to help me,—knock! Too many times the boosts are not on the square. Neither are the knocks. But the fellow who knocks sometimes shows me a weakness on my part. That helps."

That is a good paragraph for some folks in the poultry world to paste in their hats. It never does any good to get angry and to rave and threaten others because they happen to criticize or knock you. Just take what they say home and think it over,—maybe if you put your ego away on the shelf for a while, and silly pride and foolish vanity along with it, and really think over the criticism a bit, you may get some good out of it. It is a mighty mean and low grade sort of mind that thrives only on having other folks agree with it and that smirks and preens its feathers before fulsome flattery.

And right here there is just one little knock we want to hand to "Hennerly." We don't quite see why he persists in making all his flivvers to fit the "average sized person," or rather the middle sized and the runts. If low priced cars are good for the people, why not give the full grown man a chance to use 'em? As it is now a man who stands close to six feet or over, who tips the beam at 240 pounds, and who has legs so long that he must wear pan— (we mean

trousers) with a 36-inch or longer in-seam, cannot get underneath the steering wheel of a Ford, much less use the levers or ride in comfort. Maybe the springs will hold him, maybe he wears shoes small enough to work the levers, but he can't drive the "benzine buggy" because Nature has grown him too large to fit into the front end. Maybe "Hennerly" is prejudiced against large sized men and wants to freeze them out, or maybe he wants to reduce the standard weights and heights for Americans. Whatever the reason, it isn't broad minded fair play for the big fellows, who might like to drive a "Tin Liz." because of the economy in cost, operation and upkeep, but who are barred out by this unjust and unfair discrimination against the large, tall, or long-legged men. Why hog all the economy for the little fellows? Why not stop trying to beat the record for car production per minute, and put a little time into developing extra sizes for the many long-geared folks this big country holds?

We're not responsible for the size that Dame Nature wished onto us—and there are a lot of folks in the same boat—and it isn't a square deal to be forced continually to pay high prices for expensive things we don't want, just because low cost articles are not made in "extra sizes." We are not a bit thin skinned and can get thru life ducking low doorways, suffocating under low ceilings and getting hats stove in on "average sized" trolley cars and other general transportation vehicles—and not use up more than a fair allowance of "beautiful language"—but, after being taxed to the limit by tailor, haberdasher and shoe dealer—and being exposed to the bumping, experimental, shortening process of Pullman sleeper and steamboat berths—we certainly do protest vigorously to the makers of all low cost automobiles, for their willful cussedness in failing to make motor cars with reasonable leg room for the man at the steering wheel. We would like to sentence the whole crew to a week of daily 200-mile trips in a machine where they had to sit with

knees scraping chin and with a steering wheel making dents in their breast bone. 'Nuff said.

Buy a Home.

A GOOD many years ago, wise old Ben Franklin wrote, "Now that I have a sheep and a cow everybody bids me good morrow." This was in the days of unpretentious living in a newly settled country, yet it gives us a fair idea of the increased weight the acquisition of a little property gives to a man's standing in the community. Probably in Franklin's day the community suffered even more than today from a transient population that had nothing more burdensome to move from place to place than a change of clothing.

The property owner is every locality is a welcome citizen. He forms the vast army of thinkers, planners and workers who keep the wheels of progress moving on. The future of a community rests in the minds and lives of its property owners. But there are a class of property owners who are here today and gone tomorrow. Last week a real estate agent located in a country district told us that during the past ten years he had sold most of the property in his section twice and some of it four times. He said:

"The people are never satisfied. A man buys a place which is apparently just what he wants. He settles down on it, fixes up the buildings, puts out fruit and shade trees, and then for some unaccountable reason decides it is not the place he wants at all and sells out at a sacrifice. The next buyer tears out the partitions put in by the last owner, rips off the piazza and puts on a cement pergola addition, has a disagreement with one of the neighbors over a line fence or pigs getting into his orchard, puts the place back on the market and is gone before the year is up. Of course there is money lost in these transactions, but most of the people seem to think they are going to find an Arcadia or an Eden where everything is just as they want it and nothing ever out of tune."

Most assuredly there is a money loss in moving from place to place and there is a bigger loss in that feeling of rest-

RED SUSSEX

and they weighed 7½ lbs. each on May 14th, 1916. However, in our climate, with the long winters, I do not recommend late hatching.

A Splendid Crop of Young Birds Now Growing. It is hard to beat the Sussex for sturdy growth. Last year, Mr. S. C. Wood, Rocky Ford, Colo., hatched two cockerels on the 14th of August. F. L. PLATT, SWANTON, OHIO



U. R. FISHEL'S

White Plymouth Rocks

are better this season than ever before. Choice Exhibition Birds, Selected Breeders and Utility Flocks at Special Sale Prices. The U. R. Fishel White Plymouth Rocks

Have Won More Prizes

than any other strain. Bred in line for over twenty years. When you buy the Fishel White Plymouth Rocks you obtain the "Best Possible" in poultry. LIST FREE—send for it.

Six Weeks Old Chicks 15 for \$10.00

U. R. FISHEL

Box A

HOPE, INDIANA



Fashion Plate Buff Orpingtons

Eggs at half price—\$2.50 and \$5.00 per 15 from yards worth more than twice the cost

Breeding Pens \$15, \$20 and \$25—one male and four females. Don't put off longer what you have promised yourself for years.

A. E. MARTZ, BUFF ORPINGTON SPECIALIST AND JUDGE

Box A, ARCADIA, IND.

lessness which settles down upon and takes complete possession of the man who is forever on the move. He makes few friends and reaps none of the joys of old associations in a community. He is not long enough a citizen to take a wide awake interest in the betterment of his community. He is known chiefly by his instability.

Money invested in real estate is well spent and if reasonable care and judgment is exercised in buying a home property, the investment will prove a profitable one. And once the deeds are passed and you are located upon the place of your choice, unless there is some very pressing reason for giving it up for another, it will pay you to stick where you are. There is nothing to be gained by a too frequent change of base, but there is a great deal to lose.

Every family should work toward purchasing a home, a place they can call their own. But the satisfaction experienced in its actual acquisition will be slight in comparison to the joy felt in watching it grow and develop under your hands and intelligent toil. By all means buy a home, work for it and enjoy it and it will prove the best investment you ever made.

Suicidal Publishing by the American Poultry Association.

THE following article appeared in the June issue of *Canadian Poultry Journal*, and knowing that all poultrymen are vitally interested in the subject mentioned, we have taken the liberty of reprinting the article in full.—Editor.

There are a number of subjects upon which we feel strongly in connection with American Poultry Association matters.

We are interested because without doubt the Standard poultry industry should be directed by some one good, strong, sound, live representative organization.

One object that is forcing itself upon us at this moment, and the thought that we wish to put into this editorial, is that *the Association should not go into the publishing business outside of purely Standard requirements, and such other needs as would not otherwise be supplied.*

Another is that *it should not take upon itself to authoritatively direct on mating and breeding problems* that thousands of breeders understand better than any one man or small group of men in the American Poultry Association can possibly understand; for by so doing it lends its authority to methods that in the future may of necessity change and may even now be of doubtful utility.

If the Association places its seal of authority on a fixed breeding method by publishing it in a Standard or in any other official publication, indicating to those thousands of intelligent breeders: "You shall breed this way," or even "You should breed this way," then it is the beginning of the end of the American Poultry Association, or the beginning of

another and wiser counselled association. Several opposition associations have been talked of for years. The editor of this journal has been approached more than once with a view to securing his vote or influence on the formation of new associations, and we have always argued against it, because there appeared on those occasions to be no good grounds for forming another association aside from the discontent that was felt with the Constitution and By-laws which did not suit everybody. We really had no time to dig into such things for such an ordinary reason. We were content to abide by the Constitution and by its several revisions, on the supposition that such a condition could do no direct damage to breeders.

But now the Association evidently proposes to take hold of the breeder and say to him "You breed our way or we will put you out of business."

And that is where we make our stand.

It may be said that there is no threat to put breeders out of business.

Directly—No!

Indirectly—Yes!

If the Association puts a rule in its Standard, then presumably it is going to enforce that rule at Association Shows.

The Association has been gradually securing command of the Show business, by giving certain privileges at Shows held under its rules and by withholding those privileges from Shows which do not recognize its authority. Only the leading Shows of the country can afford, even at this early date, to ignore its action; and if the Association controls the holding of or the success of, the majority of Shows, it can control also the methods of the breeders who exhibit at them.

We do not propose to tamely submit that the American Poultry Association shall commit suicide by attempting to

govern the breeding methods of fanciers who know more on the subject, as we have said, than any one man or group of men in the American Poultry Association can possibly know. Somebody must campaign on behalf of the absent members, and we are willing to take the risk of breaking the ice.

Therefore, worthy gentlemen of the Association, it is time to call a halt on your methods. They have not progressed so far as to render it difficult to retrace your footsteps. Later on it cannot be done without injury to the Association. Now it can; and our advice, offered in the interest of the Association, is: *Do it now!*

Do not mistake us as suggesting that the Association should not have a controlling influence at Shows. It should in some respects, if it exercises that influence wisely. The trouble is that the Association is practically governed by the few who attend its annual meetings and those few evidently do not realize that their duty is to act unselfishly on behalf of those who do not find it convenient to be present.

Let us see what the Association is doing.

For a number of years, in fact, about as long as the Standard of Perfection has been published, its indirect requirements have been that breeders must adopt the *double-mating* system in order to secure success in competition at Shows. We mean to say that it has given authority to Standard descriptions of males and females which have been such that in many instances they cannot be produced except by the double-mating system of breeding.

Smith's White Leghorns

Are the Most Consistent Winners in America. Catalog telling all about them sent upon request. Eugene C. Smith, 517 Galena Blvd., Aurora, Ill.

keep your powder dry!

In other words, be prepared for the Fall rush of business.

Get your share!

Don't let the buyers forget you during the dull Summer months. Don't think because you have nothing to sell now, that you can afford to get out of the "limelight." The advertisers that are carrying good sized space now are the ones who will, in the Fall, reap the benefit of the prestige thus established.

The ranks of the buyers are constantly changing—the new are coming, the old are going.

In time of Peace prepare for War.

Barred Plymouth Rocks

Lady Beautiful Strain. Wonderful records have been established by my birds at *Madison Square Garden, Philadelphia and Hagerstown.* This record includes many first and other prizes. Eggs for Hatching from these winners at reasonable prices. Now is the time to buy. Satisfaction guaranteed. Mention American Poultry Journal.

C. N. MYERS

Box E

HANOVER, PENNSYLVANIA

Carver's Rhode Island Reds and Sussex

Do You Wish to Win?

Our February youngsters are wonderfully strong and large and *what quality* our Chicago Coliseum winners have produced. We invite you to visit us and see the wonderful color and type we have this year. If you cannot visit us, get our terms *before buying* which *saves you* from taking any risk whatsoever by mail. Our customers were among the big winners this season.

A. A. CARVER, Specialty Breeder

SEVILLE, OHIO

But now, as related in the editorial, "Separate Breeds Standards," in our April issue, the Association proposes by using illustrations of a pullet-bred male and a cockerel-bred female Barred Plymouth Rock, to show "the necessity of using these two types or styles of bird in the successful development of Exhibition Barred Plymouth Rocks." That is to say, it intends to be no longer satisfied with indirectly forcing double mating, but now intends to directly cut out single-mating Barred Plymouth Rocks from all chance of winning in competition. For years the single-mating breeders have not had a chance to compete with any degree of success, and now there seems to be a proposal to finally render double-mating an authorized, and the only authorized, method of breeding Barred Plymouth Rocks. The breeders who prefer to adopt the single-mating method have for years been cut out from all chance of winning, and now the Association proposes to give them another slam by directly authorizing and recommending the double-mating system. This is what has caused a number of breeders to suggest that Shows shall provide a class also for single-mating Barred Plymouth Rocks. That course might satisfy the single-mating breeders of Barred Rocks, but it still allows the thin end of the wedge to remain so that the double-mating plan may eventually be forced upon other breeds.

The Association is doing itself an injury by providing that while the double-

mating system shall be advocated, the natural method of breeding shall be ignored.

That is one move the wisdom of which is doubtful; but the move that in our opinion without doubt is unwise, is to attempt to instruct how to mate to breed winners. That should be left to the Poultry Press and other publishers.

And this brings us to the main argument of this editorial, "Suicidal Publishing by the American Poultry Association.

As a member of the American Poultry Association, and as a breeder, we are opposed to the Association going extensively into the publishing business, for it is dangerous.

As a member we feel that it is suicidal. It is also ungrateful to the Poultry Press which has made the Association what it is.

As a breeder we object to any Association of persons, which possesses a strong influence, taking it upon itself to govern our breeding operations in detail. We prefer to use our own intelligence, supplemented by the writings of poultry journalists and other breeders whose articles are deemed worthy of publication in the Poultry Press or in book form, and aided by the advice of that great big congregation of first-class breeders who don't write what they know.

We object strenuously to the Association assuming the authority to direct "Breed this way or that way."

As a member and as a breeder it is enough that we, with the thousands of other members give the Association authority to make a Standard for breeders, and in so doing take our chances on its suiting our needs. We are content

to abide by that Standard, so long as it is fair and just, and not merely a means to the money-making end, but for mercy's sake do not ask us to submit to the Association's direction and power any initiative in breeding that we may possess. *Kill the Fancier's initiative and pride in breeding winners, and you kill the one thing that makes the Fancier enter the ranks and stay there.*

And in so expressing ourselves we believe we are voicing the opinion of the majority of our readers and of breeders at large.

We have said, that for the American Poultry Association to go extensively into the business of publishing is dangerous. Take the breed books for example, as dealt with in our April issue. Aside from the fact that the opinion of a Committee may be in many cases contrary to the general knowledge and experience of the thousands of breeders, it is possible that even if the Committee's writings happen to be absolutely correct at this date, in books to be published in the near future, those opinions—those directions—may be altogether wrong in future years as the Standard changes, which it frequently does. Somebody gets hold of an old American Poultry Association breed book; follows its instructions, and what are they up against?

The only excuse outside of money-making that American Poultry Association has for being in the publishing business at all is to fill gaps that would otherwise be left open. There may be a few such gaps, but not many. The printing of Forms for Show Secretaries might furnish an example, but that is doubtful for two reasons, the first being that Show Secretaries have different methods of book-keeping, most of them satisfactory, and many of them based on local needs and demands. They fill all general requirements. The second reason is that other good poultry breeders—poultry publishers—Theo. Hewes, for instance, had compiled and was selling (before the American Poultry Association went into business) Forms for the use of Show Secretaries; and they filled the bill.

What did the Association do in his case?

Cut out one of his means of livelihood.

Yet here is a man who, up to that time, had done far more to give publicity to and help the American Poultry Association, than the average member could do. He had studied Show requirements. He had managed big Shows. He is now, we believe, managing more big poultry Shows than any other member of the Association. He is competent to compile and to publish satisfactory Forms, and he did so. We do not know if that action of the Association keeps him away

McDannell's White Leghorns

200-Egg Strain Win-Pay-Lay

Hatching Eggs and Day-Old Chicks

M. O. McDANNELL, 1430 24th Avenue A, MOLINE, ILL.



"Regal Queen," First Boston Hen 1913

REGAL SUMMER SALE

IN ORDER to make room for my large flock of rapidly growing chicks, I am offering for sale 600 selected breeders at remarkably low prices. Here are a few bargains:

- No. 27. Breeding pen of Dorcas stock, consisting of six fine yearling hens and male. A good pen to build up a heavy laying flock. Sale price, \$25.
- No. 18. Well mated pen of five yearling hens and male, all bred from special matings. Value, \$50. Sale price, \$35.
- No. 7. 300 yring. hens, splendid value at \$2 each.

Send for Free Sale List, giving complete list of bargains. Eggs from prize matings, \$2.50 per 15; \$4.50 per 30; \$6.00 per 45; \$12.00 per 100. Utility matings, \$6.50 per 100.

Regal Cockerels and Pullets

This season I have over 2,000 early chicks—the best I ever owned. If you want to make a winning at your State Fair, let me quote you prices.

JOHN S. MARTIN, Box 51, Port Dover, Can.

Most Wonderful Quality



I have seen this year, is the comment of every one viewing our large flock of youngsters. Five hundred January and February hatched birds now ready for **Early Fall Fairs.** Each year we feel that we cannot produce better quality but this year the quality surpasses that of previous years, even greater than we anticipated and to win in the early fall fairs you MUST have

The World's Best White Wyandottes

or if you do not intend showing young stock, remember the wonderful bargains we are offering in old stock, also breeding and heavy laying fowls. Sale list of rare bargains ready for you:

J. C. FISHEL & SON

Box J

HOPE, INDIANA

from Annual Meetings, but we do believe that his absence is a loss to the organization.

It seems to us that the Canadian Poultry Journal is one of the few publications which can call attention to this matter without being accused of being financially interested. There are but few members of the Association in Canada, and but few Shows that are subject to the rule of the American Poultry Association. They are practically independent, and free from fear of any action of the Association. Therefore, if we were publishing Show forms they would be likely to buy them from us, so that we would not be at any loss on account of the American Poultry Association being in the publishing business. But it happens that we are not publishing such Forms. Therefore, as we have intimated, here in Canada we may be exempt from the accusation of a selfish motive in forcing this issue. At the same time, by so doing, we can remove from the shoulders of editors across the line the possibility of like accusations; for the onus if anywhere is on the shoulders of those who make the proposal.

Poultry Journal publishers should be allowed to conduct their business free from competition by the American Poultry Association.

A single reason ought to be sufficient to convince the Association that it is an asinine action to compete with Poultry Journals in that line.

Here is the reason:

The Poultry Journals are the sole means by which the Association can live and prosper; they are the sole cause of its present advanced position; and their influence has not only been without cost, but has actually furnished the Association with the means of doing business.

Do we need to argue the case?

We think not; but this much we will say: that the entrance of the Association into the publishing business in competition with Poultry Journals is the rankest piece of short-sighted policy that has ever, to our knowledge, been enacted by any Association; and if the policy had been properly presented to the whole membership, it would never have been adopted.

With this first shot it is now up to the Poultry Press to get together and put the Association's thinking apparatus in order—and the Poultry Press can do it.

The thousands of members of the American Poultry Association are more deeply interested in the welfare of Poultry Journals than they are in the money-making schemes of an Association which if properly operated could prosper on the income from the Standard of Perfection, from membership fees, and from other legitimate undertakings.

Our Cover.

THE Rhode Island Red class at the last Madison Square Garden show was without any question one of the strongest ever exhibited at this classic. We take great pleasure in showing on our cover this month a natural photograph of the first prize cock "Champion Gladstone." This bird is the property of Rock Ledge Farm, Southboro, Mass., and is one of their many consistent winners at New York, Boston, Buffalo, Guelph, etc. This bird has all the earmarks of a first-class specimen of the breed and is a wonder in color and shape. He has proven to be a very strong breeder this season and his off-

spring will, no doubt, be heard from at this winter's shows.—L. A. S.

Do You Want the Services of a High Class Man?

WE HAVE on file an application for a position by one of the best poultrymen in the country. A man who has bred some of the greatest prize winners ever produced. This man is capable of managing any poultry or stock farm; he has the knowledge and ability that makes success. Anyone in need of a high-class

house with freshly made whitewash. Treat the nests the same way and dry them in the sun. Paint the roosts, supports, ends, drop boards and all with crude oil, or with a mixture of one gallon of kerosene and a pound of naphthalene flakes. Be sure this is done in morning so that the roosts will be dry at roosting time.

Dust all fowls with pure Persian insect powder (pyrethrum) and do it thoroughly, working the powder down to the skin all over the birds. Apply to each bird above and below the vent and under



Here are illustrated selected feathers from a Ringlet Barred Rock female that are as near ideal plumage as has been produced. Not only is the barring sharp, narrow and evenly spaced, but it extends thru both surface and under-color to the skin.

man should write AMERICAN POULTRY JOURNAL, 542 South Dearborn St., Chicago, Ill., for full particulars.

Lice and Mites.

IT IS time to begin vigorous war on lice and mites. Clean up poultry houses carefully. Remove all nests and burn all nesting material. Remove all litter. On the morning of a good bright, warm, sunny day spray whole interior of

each wing a very little of a mixture of blue mercurial ointment one part and petrolatum three parts (thoroughly mixed). Repeat the dusting with insect powder in one week. If insect powder is not available, obtain flowers of sulphur and use for a dusting powder. It is less lasting in effect.

Be sure that fresh litter and material is clean and bright. Do not use hay or straw litter that has been roiled over by pigeons. Pigeons are about the worst mite carriers we have.

HALBACH'S White Plymouth Rocks

WINNERS INVINCIBLE LEADERS

Sale Extraordinary. Get your copy of my great Half Price Sale. Never, anywhere, has any breeder offered such astonishingly outstanding bargains. Your opportunity.

H. W. Halbach, Route No. 1, Dept. E, Waterford, Wis.



Dr. Woods' Notes and Comment

SUMMER.

O, I like the summer feelin' with its hazy, lazy air,
An' its soft an' drowsy whisper threw the trees;
I like its meller music which is risin' everywhere,
From the waterfalls and thrushes and the drone uv busy bees.

O, I like the summer feelin' with its drowsy monotone,
Uv toads an' bugs an' locusts, an' the crickets' interlude;
I like tur lie and listen with the branches o'er me thrown
Where the brooklet meets the river an' the medder meets the wood.

Yes, I like the summer feelin' cuz it fills my hungry soul
With a glow uv healthy happiness thet nutin' else kin do;
An' I look up threw the branches where the great white cloudlets roll,
An' I feel myself a-driftin' off ter worlds beyend the blue.

—Joe Cone.

For the past two months, in issue of even date, Editor Cornman of the *Poultry Item*, by singular coincidence, has duplicated our quotation of poetry at head of these notes. We don't know how he happened to pick the same bit of verse that we did, but if he succeeds in duplicating us this month with above bit of "Summer Feelin'" from New England's "home poet" Joe Cone, then the dinner will be on us, that's all.

* * *

Just to encourage "C. T. C.," however, we will give him a second chance on timely summer verse and again quote from our staunch New Englander an appropriate bit that suits the season:

EVERY DAY.

Life is growin' brighter,
Every day;
Souls are growin' whiter
Every day.
Birds are singin' sweeter,
Girls are lookin' neater,
Life it grows completer
Every day.

—Joe Cone.

* * *

This is a good time to overhaul and put in order all hatching and brooding equipment not in use. Clean thoroly and paint with a good cold water paint before storing away.

* * *

Be sure that the growing chicks and all adult stock have plenty of shade now that the days are hot, and provide ample outdoor shelter for protection in sudden thunderstorms. Keep cool drinking water before the birds and be sure that it is kept in a cool shady spot.

This is a good time to get stock birds, that will be carried over another season, into an orchard or shady grove. Where necessary to keep fowls in bare runs, be sure to provide them with plenty of fresh greens from the garden and clippings from the lawn. A daily supply of fresh succulent greens is necessary.

* * *

Select a warm bright day for "house-cleaning" the poultry houses. Shut all the fowls outside. Sweep down all dust and cobwebs, take the nests and roosts outside the house and spray or paint with a good lice and mite killer. Burn all old nesting material. Whitewash the nests inside and out and dry in the sun. Clean up the floors and drop boards and spray inside of house thoroly with a good whitewash or disinfecting cold water paint. Be sure to burn all old litter. Freshen up the whole house. Sprinkle earth floors with crude oil applied with a watering pot, after first removing a few inches of the top earth. Remove part or all of windows for the summer season. After the clean up, fill in the floor with good earth or sand.

* * *

Plow or spade up the runs and sow to oats and corn. If shade is not supplied by trees or shelters, make a few canvas or board shelters,—old bran bags make good shelter tents. If runs are large enough, partition off lower end of yard and plant corn. Keep the fowls out until the corn is high enough to supply shade. Growing corn, well started, will supply shade and greens thru the hot season.

All garden waste, weeds and lawn clippings should be given immediately to the yarded fowls so that they can have the benefit of them while fresh. Don't wait until the green stuff is wilted before feeding it.

* * *

Scalded fresh fish makes a fine growing food for chickens. Waste fish is usually plentiful on the sea shore or near rivers and lakes at this season. It is a good cheap food and if obtainable may be given as one full feeding daily, or may be mixed with a moist mash. It sure does promote rapid growth. In most suburban locations an enterprising boy can catch enough fish evenings to supply a flock of chicks and have a lot of fun, too.

* * *

A very satisfactory way to sprout oats for summer use, where fowls have only small bare runs, is to make a frame of 4 in. wide finish strips about 3x6 ft. Cover this with ½ inch mesh poultry wire, on top only. Spade up a bit of the run just the tize of the frame and sow thickly to oats. Cover with the frame, wire side up. Water the oat bed daily. In a little more than a week the oats sprouts will be shooting up thru the wire so that the fowls can reach them and get the tender shoots without uprooting the plants. When the mass in the frame is making good rank growth, remove the frame and start another patch. By use of two such frames a constant supply of fresh greens can be supplied to the average city or town flock.

* * *

Be sure to collect eggs at least twice daily in warm weather and put them promptly into a cool, dry place where the air is good and free from odors. Eggs will spoil very quickly at this season of the year. They should not be long exposed to a temperature above 60 degrees. Market the eggs twice a week and make sure that no stale stock is kept over.

* * *

Under the caption "Conscription" *The Independent* says editorially:

"Has the state of New York gone stark crazy? Her legislature has passed and Governor Charles S. Whitman has signed five bills that require, among other things, all men between eighteen and forty-five to be enrolled as members of the Militia Reserve beginning August 1, and all schoolboys between sixteen and

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nineteen to drill not more than three hours each week and go to summer military camps under the direction of the officers of the National Guard, and all school children over eight—girls as well as boys—to receive as part of the prescribed course of instruction such physical training as the regents, after conference with the military training commission, may determine during periods which shall average at least twenty minutes in each school day.

"These laws mean conscription in time of peace. They should be forthwith repealed. The American people believe in preparedness—sane preparedness—but this goes to the very brink of the precipice of militarism."

* * *

It looks as if a good many Americans were unable to stand the excitement of a presidential campaign occurring during stress of the great old-world war. Hysterical preparedness, hysterical fear of some "danger unknown" and the mob-hysteria fed on militaristic oratory, martial music, and the incessant effort to stampede the people into an extravagant military and naval preparedness and general "hurrah boys" without any apparent thought of real social and industrial preparedness, which should precede any attempt to prepare for war in time of peace, is putting a large proportion of our people into a "state of mind" where they appear to have no power of thought or ability to think for themselves. It is to be hoped that this proves to be but a passing state of madness and that it will soon be over with, before too great harm has been done. It would seem that this country must be in far less danger of war at the present time than for many years, and if we are not better prepared now than we have been for a long time, then some very sizable appropriations have been wasted and it would seem foolhardy to pour more millions of dollars down the same rat hole. Just how our bellicose jingoes expect to be able to prepare for some war danger "unknown" is a matter that we would like to see sanely and satisfactorily explained. We don't believe you can prepare in satisfactory fashion against unknown dangers. If we are to go thru life with added burdens of such fear used to tax the shirts off our backs and are to be expected to live in dread and fear of the unknown, we might just as well go back to the government of the middle ages and quit talking about Christianity and a free government by a free people. We don't take a great deal of stock in all this panicky and bugaboo talk; and we sure do dislike to see so much waste and so much pork barrel legislation.

* * *

The hysteria of the preparedness fad seems to have struck the state of Massachusetts only a little less hard than New York. Sundays now, instead of being days of rest, are given over to military evolutions, parades, sham battles and the like. In our own home neighborhood the peace of a beautiful June Sunday was destroyed by a noisy sham battle in a neighboring pasture between a troop of cavalry and some companies of infantry. It lasted quite

a while, burned up a good many dollars' worth of ammunition and ripped up the sod on several acres of good pasture land. After the "battle" was over the field was literally carpeted with empty brass shells left behind by these "soldiers" who are being trained in "efficient preparedness." Considering the high price of old brass as "junk," we wonder why the officers in charge of this noisy demonstration permitted such waste. Surely old world military efficiency wouldn't stand for it. If we must have these noisy and wasteful demonstrations, it is a pity that some week day cannot be set aside for the celebration instead of legalizing wholesale Sabbath breaking under government patronage. Also, to judge from the appearance of a few of the troopers, it might be well for city and town officials to prepare for such Sunday military campaigns by first closing the "blind pigs" and "kitchen bar rooms" and keeping such closed. Certainly a brief one day "practical military drill" might be conducted without the need of filling up some of the weaker boys with "booze."

* * *

We believe that there is abundant room for sane preparedness, for better and more wholesome social and industrial conditions and for decent right living, but we are exceedingly sorry to see such hysterical plunging into militarism and general "high jinks." Even some ministers, catching the hysteria of the mob, are trying to tell us that the teachings of Christ and of Christianity were never meant to be taken literally and that war and preparation for war are necessary. It is a sorry condition of human affairs. We might do well to experience a change of heart and give real Christianity a trial, instead of preaching one thing and practicing another. If it is wrong for one man to kill another, it surely is a greater wrong for nations to kill men by wholesale, and multiplying wrongs never yet made right. Saving life and the conservation

of human life is far higher and more honorable than man killing.

* * *

At the present time labor is mighty scarce in our locality. Many ammunition factories have located in these parts and most of them are working three eight-hour shifts each day. This makes it possible for men on piece work to make from \$3 to \$4 in an eight-hour day and some of them by working two shifts double their wages. As \$2 for a nine-hour day is about the limit that one can afford to pay for even efficient farm labor,—labor is growing more and more scarce all the time. As this sort of factory work is devoted to wasteful production of material to be thrown away in man killing and as more and more men and women are being drawn away from the work of producing foods and other necessities of life—and as the production of foodstuffs, which was never very profitable, is now showing still smaller profits or none at all—we wonder what the effect of such conditions will ultimately be. It looks as if we were likely to find the "high cost of living" soaring so high that it will take \$5 to buy the necessities of life that we used to buy for \$1. It is time we prepared for a little real and efficient productiveness in the things that maintain, conserve and save life and devote far less time to serving Moloch and promoting wholesale waste. It will not do the working man any good to swap a \$2 nine-hour day for a \$4 eight-hour one, if by so doing he is promoting conditions that will cut the buying power of a dollar to far less than half.

* * *

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from 32 to 36 cents per pound alive at the grower's door for soft roasting chickens (capons and winter chickens). Today, when it costs more to live and when feeds of all kinds are high in price, the same growers cannot get a price from the same buyers of more than 22 to 26 cents a pound. A few growers, who have cut out selling thru the middlemen and who kill, dress and sell direct their own chickens, are getting 40 to 45 cents per pound for dressed roasters delivered in the city market. The dressed price is practically what it was when the grower used to get 36 cents per pound alive. Locally several roaster growers have stopped raising chickens and turned to other work for a living. They are weary of seeing all their hope of profit go into the middlemen's pockets. Just why, when the high cost of living and increased cost of production hits the grower harder than anyone else, the middleman should feel that he should have a profit of 15 to 19 cents a pound on each 6 to 10-pound chicken to pay him for collecting, dressing and marketing—a matter of a day or few days at most—while the grower is expected to take pretty close to actual cost of production for a whole season's hard work, is an industrial problem that needs solving. Unless the middleman meets the grower a little more than half way and endeavors to help him to show a living profit, the business is likely to die out for want of easy mark producers who are willing to work for nothing. It has been said that competition by western grown chickens, etc., has lowered the market prices of the finished product, but that statement is not borne out by the facts, as retail buyers of quality soft roasters can testify. It looks as if it would be better in the long run for the middlemen to be a little less greedy. Good New England grown chickens and fowls are growing scarce and the crop for this season looks like a very short one.

* * *

In these strenuous days of the presidential campaign, it is pleasing to find individuals who put real worth and true American fair play, in a broad-minded and liberal way, above mere party politics. In the staunch Republican stronghold of Massachusetts at a June meeting of the Ancient and Honorable Artillery Company, Collector of Port of Boston, Edmund Billings, paid the following tribute to President Wilson:

"In what I have to say of the President I speak of him not as a Democrat and not as a Democratic President, but as the President of all the American people, who typifies and embodies in himself all that is best in this country and its citizenship.

"I am aware of the criticisms of his administration, but I know, and you all know, how easy and how human it is to tell another man, even tho he be the President of these United States, how to do a particular job when the responsibility is not yours. I know and you know something of the steadying quality of responsibility.

"And I say and you say and the country in its sober senses will say: 'Thank God for once more raising up another, a great man, in a crisis in the history of our country, who has represented the entire people, who has set forth to other nations an example of real Americanism—without bluster, without bragadocio, without the rattle of the sword in the scabbard—and has maintained for us all peace with honor.'"

* * *

Wheat is high and climbing higher, all grain and feeds have an upward trend in prices. We cannot look for or hope for a return to low prices of feedstuffs for some time to come. There is too much wholesale waste in the world at

present and too little real productiveness. Eggs and poultry are beginning to show an upward tendency and better prices may be looked for, but the supply of fowls appears to be short the whole country over and in most localities fewer chickens are being grown than common. With the prospect of better prices for produce, a good demand and a short supply, those who have reared good sized flocks should be able to realize fair prices that will, in a measure, compensate them for the increased cost of production. Don't be in too great a hurry to sell either fowls or chicks.



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HERE WE ARE into July, with the spring gone and the glory of that season departed. In all it was a favorable season for the gardener, the fruitman and the florist. Our flowers and shrubbery never looked better, nor has the bloom even been more satisfactory. As I write these lines I occasionally look out of the library window to a bed of Iris in bloom. It is a beautiful sight. They are deliciously fragrant and the south wind carries the perfume into my room. The flowers are large and handsome, more or less beautifully mottled in the "standards" and veined in the "falls," while the beards range from delicate primrose to orange. In colors there are the richest yellows, the most intense purples and delicate blues, the softest mauves, and very beautiful claret reds. There are also whites and primroses, and bronzes of every imaginable shade. How I do love them! The aquilegia (columbine) is also another flower of which I am very fond. It is now in full bloom and presents a sight of wonderful beauty. More and more I am planting hardy sorts of flowering plants and the perennials. They are so very satisfactory.

The roses! I think we never had such bloom before—but Mrs. Rigg says I make that statement every season! The cool, wet spring was particularly favorable to growth of wood and flowering buds, and I do not see how there could have been more or better bloom. An occasional spraying with arsenate of lead rids the bushes of all worms, while the Black Leaf 40 takes care of the aphids.

Everything in the garden is working over time. We never had better vegetables. The strawberries are here in full force and as usual have given us a very large crop.

The fruit trees and grape vines are doing all that they should be asked to do. The outlook for a big crop is very promising. This season the currant worms came on with a rush. I was prepared for them, having the currant and gooseberry bushes well covered with arsenate of lead. As a result every worm which came to our place is now dead and the bushes uninjured. But the worms did play havoc with most people's bushes. Just a few moments ago one man telephoned me asking what he could do to save his currant bushes, which were "just a mass of worms." I wonder why people will have fruits or flowers or garden vegetables and not learn how to properly care for them?

Out here in the mid-west we will have to get busy and wage a war on the potato bug, the mellow and cucumber aphids and other troublesome insects. There is every indication that we will escape our usual mid-season drouth. This will give us an advantage in the fight, for it means a vigorous growth of plants. We will use arsenate of lead for the potato bugs and the cucumber beetles and go after the aphids with Black

Leaf 40 and whale oil soap—and we will win the battle easily.

* * *

A correspondent wrote to the *Rural New Yorker* asking if the bleeding of grape vines by late spring pruning would injure the vines. The editor replied:

"The bleeding of grapevines has been investigated quite thoroly by several workers and the conclusions reached indicate that the loss of sap from the average seasonable pruning does not seriously interfere with the vigor of the vine. In that the annual pruning removes a large amount of the growth of previous years, the amount of plant food stored in the trunk and roots of the vine is in excess of that required to give the remaining canes a start till the roots begin to function. The material lost is largely water."

We have had some experience along this line and it does not tally with the above statement. One fall we did not get a row of Concord grapes pruned. When we returned home from Florida late in March we pruned the vines. They were very strong vines, having been in bearing for about five years. Every vine so pruned died to the ground, renewing themselves from the roots. This spring a neighbor of mine waited until late March to prune a number of Worden vines. He will have no vines above the roots in the vineyard.

* * *

I saw in the May issue of *American Poultry Journal* an article from your pen in which you say you paint your fruit trees with "Sulfocile" to prevent rabbits barking them.

Please tell me the strength you use, how you apply it, and when, and other necessary information. The rabbits have done a great deal of damage in my orchard. I, too, wrapped the trunks with newspapers, but as the most of my trees are headed low the rabbits barked some limbs above the wrapping.

I have about four hundred two-year-old apple trees, mostly Wine Sap, about fifty bearing apple trees and one hundred peach trees set out last fall as fillers in apple orchard. Kentucky. W. H. Fitzhugh.

I have a number of letters like the above from people who have had young

trees injured by rabbits. Paint the trees with sulfocile, using three parts of water to one part sulfocile. Give the trees two coats of this paint, applying the last coat about two days later. I use a paint brush, but where a very large number of trees are to be treated the sprayer can be used.

* * *

In making some improvements in our home last month, it became necessary to cut out a lilac bush which my father planted in 1858. It was one of the old fashioned kind, the old time single blue variety. During all the years it had bloomed every season. I could not do



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Pres. National Columbian Wyandotte Club.

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the cutting or see the bush taken out. I thought of how that bush was planted away back in 1858, no doubt at mother's request and how she prized it, for Iowa was a vast prairie in 1858, and mother had few flowers or flowering bushes in the new home. Just as near the spot as it is possible to do it I am going to plant a bush of the same lilac, a sprout of the one we removed and maybe mother will know and understand.

* * *

I think I have gotten the best of the insect which infests the roots of the aster plants. For three years I have had none of these plants affected with insects. I have given the ground a good dressing of wood ashes and raked the ashes well into the soil before planting the asters. Then after the asters are set I give the surface of the ground another coating of ashes, leaving the ashes to leach into the ground and to be turned under by cultivation.

* * *

Yesterday a swarm of bees settled down on a rose bush not more than three or four feet from my door. The queen had become tired and being unable to go on had fallen on the bush. Of course all the bees came down with her. In a few moments I had them hived and they are very busy now arranging their new home.

* * *

I am glad we increased our plantings of currants and gooseberries. Already we have orders booked for all we can deliver. I urge all land owners who are doing anything with fruit commercially to plant as many of these bushes as they have room for.

* * *

In answer to James Reed, Keokuk, Iowa: Pear growing in Iowa has not been successful on a commercial scale on account of the fact that the blight is very prevalent in this state. I think you will find the Lincoln the most satisfactory variety you can plant for a home supply of fruit. It is as nearly blight-proof as a pear tree can be in Iowa. It is extremely hardy. I have them growing on my place that have withstood thirty-eight degrees below zero. The tree is a regular and abundant bearer and the fruit is of good quality and fine appearance. You will do far better in your pear growing on the clay hills in the vicinity of your city than we could possibly do here on the black soils of the prairie. I think the Mississippi river bluffs in Iowa, Nebraska, South Dakota and Missouri ought to be planted to hardy grapes. Some day they will be so planted.

* * *

I have four inquiries regarding the rust on string beans. Last season, owing to the rainy weather, the rust was very general in the central west and cut down the yield very materially. It can be controlled by spraying the vines with sulfocide. If the rust once strikes the plants the spraying is of no avail. The thing to do is to prevent the rust affecting the plants.

* * *

In answer to B. G. Turner, Delaware: I do not think you will be able to buy trees of the Pennock apple from any nurserymen. You can, no doubt, get budding or grafting stock from the New York State Horticultural College. Think you will make a mistake in planting any considerable number of these trees. The

Write Letters So the Customers Can Read Them

If the truth were known, more than 30% of the failure to land orders can be directly traced to a badly written long hand letter. If you are in business, be in it right, answer your inquiries by typewriter. It makes a neater letter and looks like real business.

Fifteen minutes practice each day for a week and you will be able to operate a typewriter very good.

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That we may become acquainted with the "fanciers" we are going to offer just

25 Machines

first come, first served—at the astounding price of

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Payable \$5.00 with order and \$3.00 a month without interest.

These are rebuilt machines, fully guaranteed for one year. You can have your choice of Fox, Royal, Blickendorfer or Oliver, all visible.

They won't last long at this price and such easy terms, so write today and typewriter will be shipped promptly.

There is no red tape, no collectors, no chattel mortgages. It is simply understood that we retain title to the machine until the full \$35.00 is paid. This is your opportunity, write today.

NEW ENGLAND TYPEWRITER EXCHANGE
E. C. Down, Mgr. 847 Main St., Hartford, Conn.

Write for Our Free Catalog

of these nests, coops and many other articles. You will save money and get the very best. We make exhibition coops, trap nests, setting coops, brood coops, colony coops, portable henneries, portable fences, fireless brooders, fattening crates, runways, etc. Mention A. P. J. Address,

Niemann Bros. Mfg. Company
Box 677
Mt. Olive, Ill.



Economy Trap Nest

THE "COLLINS" OAT SPROUTER

Provides fresh, sweet, and wholesome green food and protein the year around, at lowest cost, only... **\$3**

Delivered east of Mississippi river. 8 pans 11x15 in., perforated, galvanized steel. Knockdown. Descriptive Booklet FREE. 10-days free trial.

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INSTANT LOUSE KILLER

Kills lice on poultry and all farm stock. Dust the hens and sprinkle the nests, or, if your fowls are provided with a dust bath, sprinkle Instant Louse Killer in the dust bath every other week—the hens will do the rest. Comes in handy sifting-top cans. 1 lb. 25¢; 3 lbs. 60¢, (except in Canada and the far West). I guarantee it.

DR. HESS & CLARK ASHLAND, OHIO

Hatch by Electricity

The LO-GLO ELECTRIC Incubators and Hovers are the final expression of the art of Incubation. Absolute control of Heat, Moisture and Ventilation insures big hatches and strong chicks. All metal. Fireproof, sanitary, indestructible, odorless. Write for free booklet (4)

LO-GLO INCUBATOR CO., Inc.
76 Greenwich St., N. Y. City, U. S. A.



Special July Prices on

S. C. W. Leghorn Stock and Chicks

Write your wants and get our special prices and illustrated catalog before ordering elsewhere.

THE ELLIOTT POULTRY FARM
R. 7, Box 87, Mansfield, Ohio

Pennock is a poor quality apple and your friend who recommends it so highly is mistaken as to its worth. This apple was first cultivated on the farm of Joseph Pennock, Delaware County, Pa. As a commercial variety it is practically worthless.

* * *

My five-year planted Wagner apple trees are loaded with fruit. I believe this variety is going to prove to be a good one as a filler in Central West orchards. The fruit is handsome and of good quality, and the tree a very young bearer.

* * *

Mrs. Sarah P. Arnold, Illinois, writes that the King birds are eating many of her bees and wants to know if these birds are eating the worker bees or the drones. I feel confident that the King birds destroy very few worker bees. I have watched very closely in my yard and have seen them catch many drones, but not the worker bees. In a booklet issued by the Department of Agriculture, U. S. Government, I find the following:

"It is popularly supposed in some sections of the country, at least, that the kingbird, or bee-marten, is the enemy of the bee-keeper. No doubt you have seen him hovering in front of a bee hive, apparently devouring as many of the honey gatherers as he could swallow. A careful investigation has been made by scientists, and out of 665 stomachs of kingbirds examined, only 22 contained the remains of bees, and of all of the bees found in these 22 stomachs, only four were workers, the others being drones. There is an insect known to bee-keepers as the robber fly, which causes much trouble among the bees. These were found in large numbers in the stomachs of the birds examined, and it is undoubtedly the robber flies that they are devouring when we see them balancing in the air in front of a hive. Nine-tenths of the king-bird's food is insects, consequently it is easily seen that great damage is done when one is killed."

* * *

There seems to be great interest in apple trees planting in the hill country of New Jersey. I have received more letters from people asking advice as to the best commercial varieties to be planted there than from any other section of the country this season. In this connection the following from H. W. Collingwood, editor *Rural New Yorker*, is of special interest:

"I have too many for best work. We have to stop and pick Wealthy, Gravenstein, Maiden Blush and others when we could be better employed at other work. McIntosh, Baldwin and Winesap make a good combination for a commercial orchard here. I have too many of the earlier varieties and too many Black Bens. That variety is an early, strong bearer and gives handsome fruit, but our customers do not want it. Northern Spy grows well here, but is a September apple—too early for the best. If I were planting over I would use 40 per cent each McIntosh and Baldwin and Winesap for most of the others. Wealthy grows well here, but is too early for best sale. Here, the best profit will come from picking McIntosh in September and Baldwin in October, and putting them in storage to be sold not before Christmas. If I were to do it all over again I would save much work in cultivation by using sweet clover—plowing every two or three years and cutting the sweet clover as a mulch. I think this is what we are to come to. Our soil is not quite moist enough for such full mulching as Mr. Hitchings gives, but the sweet clover plan seems to promise right. I should not put in peach trees as fillers, as we did on part of our orchard. These peach trees have been cut out, yet you can easily tell where they were from the shape of the apple trees. The fillers drove the apple trees too high into the air. Where there were no fillers the trees have made broad flat heads far better in every way."

Mr. Collingwood is speaking from actual experience and what he says should be considered by all New Jersey planters.



Aldrich White Orpingtons at Reduced Prices

We have the largest number of young birds this season that we have ever bred and being somewhat crowded for room, will make special prices on these birds during July.

We offer one hundred cockerels, January, February and March hatched, from our best matings, at \$5.00 and \$10.00 each, and April and May hatched cockerels at \$3.00 each; also January, February, March and April hatched pullets at \$2.00, \$3.00 and \$5.00 each, depending upon quality.

Our breeding pens are now broken up and we can furnish a limited number of high class breeders at one-half the regular price during July only.

Would advise you to book your order early if you desire birds conditioned for the early shows.

Tell us your wants and write us for prices.

ALDRICH POULTRY FARM 5077 N. High Street COLUMBUS, OHIO



Yes, America has a Strain that can repeat Parks' Barred Plymouth Rocks

Showed what over 26 years of careful selection, trapnesting and pedigreeing for eggs will do by winning in the last four Missouri Laying Contests, outlaying the famous English layers. They lead all the Rocks in last N. A. Contest. Customer led the entire Storrs Contest all winter, when laying pays.

Special Summer Prices on Early Hatched Pullets and Cockerels

Surplus Stock Circular free. 40-page catalog a dime.

J. W. PARKS - Box J - ALTOONA, PA.

What is This Worth to You?

To raise bouncing 11-pound roosters, 9-pound hens and get MORE EGGS THAN EVER

My hens are shelling out the eggs FAR beyond my expectations. I had "NO FAITH" but I must honestly state that "OCULUM" is the "EGG FARMER'S" ONLY salvation.

J. F. McGEE, New Richmond, Wis.

Poultrymen the world over, buy it by the gallon.

Express two gallons "OCULUM" for which we enclose check.

Elmont, Va., June 3, 1916.

R. H. SWADNER.

Mr. S. has used nine gallons in six months. Booklet free. Try a bottle (240 feeds) only 10c.

H. I. COMPANY, Inc. - Box B - SALEM, VIRGINIA

Disease Flees from "Oculum"



1st Pen Male
Syracuse, 1915

The Famous Vigorous Strain HOMESTEAD SILVER CAMPINES

We have for sale, at very reasonable prices, many beautiful and vigorous birds, both males and females. We have a large stock of the finest youngsters coming along this year and naturally need the room and houses in order to care for these birds, therefore we are offering to the lover of Campines an excellent opportunity to purchase many of the breeders that have produced these wonderful youngsters and we trust you will accept the proposition and lose no happy day. Our new and beautiful 1916 catalog may interest you. Our young stock will be ready for shipment about September 1st, but do not overlook the parents, for among them are many remarkable prize winners. Homestead Campine Farm, Box A, Wayland, Mass.

S. C. BUFF ORPINGTONS

Birds at REDUCED PRICES. Place your order now for young stock and get the Central Palace, speak for quality. We guarantee satisfaction.

Old Forge Poultry Farm Box A Spring Grove, Pa.

"America's Best" Light Brahmas

Twenty-five Nice Breeding Males For Sale.

BALCH & BROWN - MANCHESTER, CONN.

GOLDEN PENCILED HAMBURG

The Fancier's Fowl. Won the Principal, Regular and Special Prizes at Madison Square, Boston, Palace. A few birds for sale. No eggs.

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S. C. RHODE ISLAND REDS

A golden opportunity. A limited number of birds, good color and shape, for next year breeders, in lots of 10 or over at \$1.25 each. Smaller lots, \$1.50 each.

ROCK LEDGE FARM - SOUTHBORO, MASS.

DR. HEASLEY'S "Egg-Bred Winners"

In S. C. Buff Leghorns have made good with Championship at Chicago, Special at San Francisco and highest records in Official Egg Contests. Egg-bred cockerels and six-weeks pullets.

DR. L. E. HEASLEY - Box A - HOLLAND, MICH.

Send for a Copy of New Am. Poultry Journal Cut Catalog.

Higher prices for farm produce—

ship your eggs, poultry and green vegetables to city consumers: use

Sefton
Corrugated
Fibre Boxes

They're made especially for this service; strong, light, convenient; they've really made possible the buying direct from the farmer.

Send 25c for a sample box; and ask your paper jobber.

The Sefton Mfg. Co.
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HERE IT IS FOR \$4.00



A GREAT BIG HAND GRINDER

that will save its cost several times a year and will furnish one to two bushels per hour of fresh ground corn, oats, peas, dry bone, oyster shells, nut shells, dry stale bread, etc., for poultry feed, or will grind table meal for family use.

A child can operate it. Thousands sold annually. Shipping weight 40 lbs. We also build a full line of Power Feed Mills, Samson Wind Mills, Gasoline Engines, Hardware Specialties. Ask for Catalogs, stating line in which you are interested


Stover Mfg. Co., 318 Plymouth St., Freeport, Ill.

Trethaway's Anthracite
S.C.B. Minorcas

Every year for 25 years winners have been hatched from my eggs all over the country. Four of the best pens I ever put together. All headed by a yearling cock mated with hens. Eggs, \$5.00 per 13; \$9.00 per 26. I replace unfertile eggs.

ARTHUR TRETHAWAY, 45 Parrish St., Wilkes Barre, Pa.

Crown Bone Cutter



EASIEST run, Fastest Cutter, Strong, Substantial build. Bone scrap means more eggs, higher percentage fertility. Own a "Crown" Cutter and have fresh bone for every feed. Dry Bone, Grain and Shell Mills. Hand and Power sizes. Free illus. catalogue. Est. 36 years

WILSON BROS., Dec 16 Easton, Pa.

Best Made-Lowest in Price

ARKD

POULTRY FEEDS

"Made on the Farm"

ARCADY FARMS MILLING CO. RONDOUT, ILL.

Examine those hens that are not doing well, send for a box of **Louse Remedy** of the **White City Egg Farm, Seville, Ohio**, thereby prevent loss and bring profit. Price, postpaid, 50 cts. Mention AMERICAN POULTRY JOURNAL when writing to advertisers.

Mrs. R. C. Crane, Indiana, writes that she has had trouble in getting satisfactory climbing vines in her plantings around her house and asks for a list of plants she can use on the east and north of the house and on an out-building, where the plants will be in the shade most of the time. I think she will be able to find in the following vines those which will suit her purpose:

- For shady places—Aristolochia, Siphon, Celstrus, Apios Tuberosa, Hop Vine, Akebia Vine, Honeysuckles.
- For hot sunny situations—Bignonia Radacin, Clematis Paniculata, Honeysuckles.
- For north aspect—Clematis, all large flowering types, such as C. Jackmanii, Henryi, etc., Ampelopsis Veitchii (Boston Ivy).
- For eastern aspect—Ampelopsis Engelmanni, Cinnamon Vine, Matrimony Vine.

In answer to L. M. Marks, Pennsylvania:

1. I think, beyond any question of doubt, you will find it more profitable to raise winter apples than the summer varieties.
2. You will make no mistake in planting Stayman Winesap and Delicious. Yes, I would put in a few Wealthy.
3. I never heard of the Iven apple. Regardless of what your Maine friend tells you of the remarkable behavior of his one tree of this name, I advise you not to top work your three acres of bearing Wealthys to the Iven. Secure a few scions of the Iven and work over one or two trees. You have no assurance that this variety, wholly untried except by your Maine friend, who has but the one seedling tree, will be adapted to your locality. However, do not fail to test it out. It may prove to be a very valuable apple. If it does, you will have the stock to use to top work as many trees as you desire, by doing as I advise.
4. Your plan to cultivate the young orchard for four or five years, using cover crops, and then to seed it down, cutting the grass each year and mulching the trees with it, is a good plan. However, you will get better results by cultivating the orchard annually. The trees in the sod will come into bearing earlier, and the fruit will be more highly colored. Grant Hutchins of New York, who is an advocate of the sod mulch system of orcharding, produced the apples which won for New York at the Panama-Pacific Exposition.
5. I am unable to advise you regarding the planting of a pear orchard. Consult your state authorities.
6. I am strongly opposed to the interplanting of currants and gooseberry bushes in the orchard. The currant is a harbor for the San Jose scale. Then the presence of the currant and gooseberry bushes prevents plowing and cultivating the orchard properly. The plowing and cultivating should be done two ways. This is a serious objection to the inter-cropping with other fruits.
7. Yes, by all means plant largely of currant and gooseberry. You say you are near a mining town that will take a large quantity of these fruits. You will find them very profitable. They will give you a good income until the orchard comes into bearing, and after that, too, if you will attend to them properly. I would plant only the Red Cross and Diploma.
8. Few men have made any money in producing plums. I would plant but a few plum trees. Abundance and Endicotte (Mammoth Gold) will give you good returns, as you say they are doing well on a neighbor's place.

BABY CHICKS

At Reduced Prices

for July and August, of 4 varieties from free range utility stock.

	Per 25	Per 50	Per 100
B. P. Rocks.....	\$2.00	\$4.00	\$8.00
S. C. W. Leghorns. 2.00	3.75	7.00	
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Broiler Chicks.....	2.00	3.50	6.75

Send order today with certified check or money order. Guarantee safe arrival and full count. Also have 3 Candee Mammoth Hot Water Incubators for sale at a bargain if sold soon. Write for free catalog and mention A. P. J.

FRANK BLUM
Dept. A R. R. 2, New Washington, O.



Licecil
Kills Lice

Prove It Yourself
Put a lousy hen in a box, pour a little LICECIL down inside of box. Lice will soon appear on outer surface of feathers and fall off dead.

Treat your poultry house as directed and get same results. Free circular. "Seeing is Believing," tells how and why. Order LICECIL today and prove it yourself. Bottle 50c; three for \$1.25, postpaid.

Metzger Mfg. Co. Box 35 Quincy, Illinois

BELLA VISTA

S.C. White Leghorns

We won two firsts, second and third at Purdue University Egg Show. We breed for layers of many choice table eggs. Can spare 500 pullets and yearling hens, and cockerels at \$1.00 each. Circular free. Correspondence solicited. Address

BELLA VISTA FARM KIMMSWICK, MISSOURI
Reference: Bank of Kimmswick.

R.C. Black Minorcas

STOCK FOR SALE

PHILIP J. MINCH, 1907 E. 97th St., Cleveland, Ohio

WHITE ROCKS Clearing sale of stock. Yearling hens and two year olds, \$1.50 and \$2. Cockerels from range flocks, \$2, \$3, \$4—fine birds. March hatched, 1916, cockerels, \$1 each—some good show birds among them. **MRS. L. R. BUELL, R. 1, Lake Geneva, Wis.**

Buff Orpingtons

400 youngsters coming on. Four months old chicks weighing 5 pounds each. 16 years with this variety.

H. M. WOODS R. F. D. No. 1, Carlinville, Ill.

A & D LAYING NESTS

mean more eggs and healthier hens. A postal will bring full details.

THE A & D MFG. CO. P. O. Box 277-A CHICAGO, ILL.

Dark Cornish Shamrock Strain. Winners at Cleveland, Forest City Fair and at Springfield Cornish Club Show, winner first pen and Champion pen of show.

C. L. WOODWARD Box 786, Norwalk, O.

"GOLDEN ROD" Buff Orpingtons

all ready for the early fairs. January cockerels weighing 6 lbs., pullets 5 lbs. With color and type to burn. **R. M. Seward, R. 15, Lewistown, Ill.**

Single Comb White Leghorns

Special prices on Cockerels for next season's breeding if taken in July and August.

APPLEGROVE POULTRY FARM Delavan, Wis.

Regal Barred Plymouth Rocks, White Leghorns, White Wyandottes, Anconas, S. C. R. I. Reds, Campines, S. C. Wyandottes. *Stock and Eggs in Season.*

CORNELL COMPANY, Great Barrington, Mass.

Mention American Poultry Journal when writing to advertisers.

9. I think you are right in deciding to plant but few grape vines. Unless one is located where he can dispose of the bulk of his crop to the grape juice factories there is no money in producing the common varieties of grapes. Plant a few Worden, Niagara, Moore's Eearly and Delaware, for home use.

10. The Cuthbert raspberry ought to give you the best results in reds. The best of the black caps is Cumberland.

11. Your combination of Early Elberta, Elberta, J. H. Hole and Kimmell ought to give you a home supply of peaches from early until late. I do not believe you can make a better selection.

12. You have not said one word in your letter to me about the home supply strawberry bed. Why not? You certainly will plant a strawberry bed. To not do so would be a great mistake. In fact it would amount to sinning. You must have a supply of strawberries for the family.

* * *

I was in a grocery store in my home town the other day and heard a farmer ask for canned pumpkin. That same day I saw one of our most prominent farmers buying salt pork at the meat market. Think of it! A farmer buying canned pumpkin and salt pork! I bet both of these farmers are buyers of dried apples!

* * *

C. P. Bucham takes exception to my statement that Arkansas Black and Paragon are two distinct types of apples. He says he has both growing on his Maryland farm and can see no difference in them. I feel sure that Mr. Bucham is one of the many planters who were given Arkansas Black trees when he thought he was getting Paragon. Thousands of Arkansas Black trees were sold as Paragon in Virginia and Maryland a number of years ago. Arkansas Black was grown from seed planted 1833 near Rhea Mills, Arkansas. It is evident that it is a seedling of Winesap to which it bears a striking resemblance. It was propagated by nurserymen in 1868. The Paragon originated on the farm of Rankin Toole, near Fayetteville, Tenn., from a seed planted in 1839. It was introduced to the public in 1870 by a Mr. Twitney, a local nurseryman. The Paragon is an apple of high quality, better in every way than the Arkansas Black.

* * *

A few days ago I was in the orchard of an Iowa farmer. Running in the orchard were more than two hundred Brown Leghorn hens. They presented a beautiful sight. I learned that in this neighborhood there is a boom on for Brown Leghorns. A few days later I was in another county in the state and there ran into another Brown Leghorn boom. I have been wondering why the Browns did not get going again out here where egg production in farm flocks is now being considered of chief importance. I have always been an admirer of the pretty and useful Brown Leghorn and am glad to see them coming back to the farms of Iowa. Last winter at the Madison Square Garden show I had the good fortune to go down the Brown Leghorn line with William Ellery Bright and James Forsyth. The comment of these two past masters in the art of producing Brown Leghorns stirred up in me my old love for this variety of fowl.

* * *

It must be that two ground hogs which spent last season on our place and got

Chicks 7 Cents Each

Hatched from Free Range Stock

50 Poultrymen Raise Eggs for Us, for which we pay a fancy price. These poultrymen are special breeders of certain varieties—they take extra good care of their birds and allow us to inspect their flocks and reject birds that are not up to the top-notch. That is the big reason WHY 20th Century Chicks always are strong and healthy and grow fast into money-makers.

Our Ironclad Guarantee—every chick we ship is guaranteed true to name, full count as ordered, and of a certain standard high grade just as represented. We deliver them boxed in perfect condition at our express offices and always put in more than ordered—this guarantees you against loss.

Barred Plym. Rocks and S. C. White Leghorns our Specialty

	Per 25	Per 50	Per 100
S. C. Brown Leghorns	\$2.00	\$3.75	\$ 7.00
S. C. W. Leghorns	2.25	4.25	8.00
Barred Plym. Rocks	2.75	5.50	10.00
R. C. R. I. Reds	2.75	5.50	10.00
Broiler Chicks	2.00	3.50	6.75

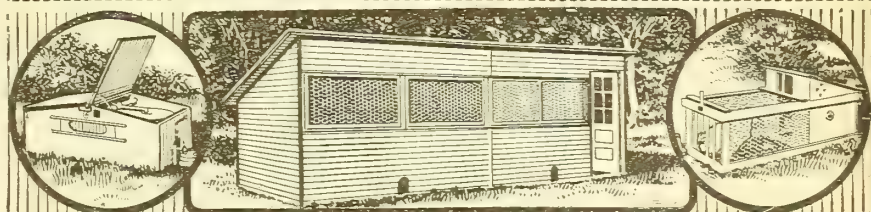
Send Order Today with certified check or money order—our large capacity of 70,000 chicks per hatch—15 years' experience—plus healthy chicks, insures you against loss and we always ship at once.

Write for our Handsome Free Catalog.

20th CENTURY HATCHERY

Formerly Chatfield, Ohio

Box 3 New Washington, Ohio



Brooder for 50 to 100 chicks

No. 3 Poultry House for 60 hens—2 units

Setting Coop

HODGSON PORTABLE HOUSES

The various models of these houses are arranged after the most scientific methods of raising poultry. Years of experience have proved this. The brooder can be operated outdoors in zero weather. The poultry house is made in sections that can be quickly bolted together by anyone. The setting coop keeps a hen by herself while setting. All neatly painted. Send for illustrated catalog.

E. F. HODGSON COMPANY Room 332, 116 Washington St., Boston, Mass.
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The Uhl Hatchery

Largest Baby Chick Hatchery in America **ABOUT 40,000 CHICKS PER WEEK**—Our Sixteenth Season

Greatly Reduced Prices for July

If you want the best there is in Baby Chicks, for show or utility, we can supply you at the most reasonable prices—Barred, White and Buff Rocks; Rose and Single Comb Reds; White, Silver and Buff Wyandottes; Buff and White Orpingtons; S. C. and R. C. White Leghorns; S. C. and R. C. Brown Leghorns; S. C. Buff Leghorns; Mottled Anconas; S. C. Black Minorcas; W. F. Black Spanish, and Light Brahmas.

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M. UHL & COMPANY

NEW WASHINGTON, OHIO

ALLENTOWN

Great Allentown Fair Poultry Show

Allentown, Pa., September 19-20-21-22, 1916

"Noted for the way it does things and the things it does"

Sixty-fifth year; twelfth under present management. One of the Biggest and Best Poultry Shows and Fairs in America. Big and little exhibitors treated alike and equally welcome. Large prize money and pays its premiums. Judges of national reputation. Management and employees do not exhibit. Entries close Sept. 8th and requests for premium lists should be filed at once.

W. THEO. WITTMAN, Superintendent-Manager Box E, ALLENTOWN, PA.

TOM Barron's Winners

All Egg Contests Prove Them

World's Greatest Layers

Are Still at MORRIS FARM
R. 4 - Bridgeport, Conn.

I have the most Profitable Flock of Poultry in America, and you cannot afford to be without my blood.

Remember, you take my word for nothing. I state only official records made at National Laying Contests.

In Wyandottes—

\$8.69 worth of Eggs by BARON-ESS V, the 282-egg hen, at North American Contest, 1913-14. Four others laid 274, 271, 258 and 252 eggs. The five laid 1337 eggs, an average of 267, or \$8.21 per hen.

I have a flock of 27 Hens that gave net profit per hen of \$4.67. These are the three Contest Pens I bought of Barron, and which he had at Pennsylvania, Connecticut and Missouri. All my Wyandottes are bred from these.

In Leghorns—

I am breeding the Highest Pedigree Cockerels in the World, out of the 288-Hen, winner at Newport, Eng. This affords new Winning blood for the Barron breeder. Others, 284, 256, 255, etc.

In Buff Rocks—

280, 265, 263, 240, etc. I guarantee all contest birds.

All Breeders tested by Storrs' College. Free of white diarrhoea.

SPECIAL REDUCTION

May and June on pedigree chicks, also on eggs. Take advantage of this by ordering early. Half grown stock half price July and August.

MORRIS FARM

R. 4 Bridgeport, Conn.

White Plymouth Rocks



Exhibition Tamworth Swine, St. Bernards, Line Bred White Persian and Blue Persian Cats.

"Bella Vista" White Rocks won the Zenoleum trophy at the 1915 Palace show, for the greatest number of points on any one breed.

I am entirely out of surplus stock and eggs; nothing for sale except very young stock. Naturally I have nothing but the best left, which is not for sale, but I must keep Bella Vista Farm White Rocks before the public. "Whitened on Blue Grass Range"

BELLA VISTA FARM, Lewes P. Doerhoefer, Prop., Department A - ANCHORAGE, KY

LOUSY CHICKENS Won't Lay

Therefore paint your poultry house once a year with
Avenarius Carbolineum
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fat on my sweet corn and cabbage have sent word out to their friends. Yesterday I counted five of them out in the orchard. They surely did get more of the sweet corn last year than I did, and I don't see any way to fight this increased force. But I am going to get my share of the corn this year if I have to remain in the field night and day. Life without several weeks feasting on sweet corn would be a dreary thing indeed.

* * *

The death of Major Frank Holsinger at his home in Rosedale, Kansas, a short time ago removes one of the men who have been active for better horticultural methods in the West. Major Holsinger was a successful fruit grower and was always aiding some one, and constantly engaged in spreading the gospel of the home orchard and small fruit garden.

* * *

For more than twenty years I have had each season during the fruiting period a visit with Frank P. Storm. I greatly enjoyed these visits of my friend. Mr. Storm was engaged in business and was on the road most of the time. He was an ardent lover of flowers and fruits and in his Minnesota home had a large and valuable collection of plants and vines and trees. We used to have such a good time going thru the orchard and flower garden when he came here. I was thinking of him yesterday and how I would soon see him, when the postman came with the mail. I saw in the lot of letters one which I supposed was from him and that it would tell me he would soon pay me the annual visit. I opened the letter and read that Mr. Storm had died two days before. It was a shock to me. I shall greatly miss him.

Chick Foods.

A GOOD first food is a mixture of dry bread or cracker crumbs and rolled oats rubbed up crumbly with hard boiled egg.

Boiled rice, or any other cooked cereal makes excellent variety food. Raw potatoes cut in chunks for the little birds to pick at are fine food for chicks. Short sprouted oats, given in a small box so chicks can scratch them over, make first class food. Give every day and remove at night any not eaten. The leavings can be thrown to adult stock.

Boiled fresh fish, either plain or mixed with mash, makes good growing food and may be fed daily if available. A good beef scrap can be fed from the start. It should be fine ground and mixed with the dry mash. Use only first quality beef scrap.

Granulated charcoal should be kept before the chicks at all times, so should chick-size crushed oyster shells. Renew sand on floors regularly.

A good home-made chick food can be ground in any hand or power grinding mill. Mix sound hard corn, 10 lbs.; wheat, 10 lbs.; heavy white oats, 5 lbs.; heavy bright barley, 5 lbs., and grind all these together so that the coarse particles are about the size of commercial chick food. Add to this about 5 lbs. of rolled oats and a little fine oyster shell and charcoal.

The meal can be sifted out of above chick food by placing a chute of fly-netting on spout of mill, having a box for chick food at end of chute and a larger box under chute to catch the meal. This meal mixed with an equal measure of

good wheat bran, to which is added about 5% of either fish scrap or beef scrap of good quality, makes a splendid dry mash for small chicks.

Chick should be fed often at first, but when well started three feedings a day are sufficient. By tenth day begin to work them gradually on to coarser ground food. By the time they are three or four weeks old they can take same ration as laying hens.

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To get a maximum egg yield next fall and winter your birds must be kept in the pink of condition from hatching to maturity. It has been proven that the feeding of Mustard to poultry promotes an increased egg production, and is also permanently beneficial to their health, vigor and stamina. **French's Poultry Mustard** is the original Poultry Mustard in America, pure and of great strength, hence only a small quantity is required for each fowl. The best results are obtained from its continuous use. Prepare your birds now for more eggs next winter. Booklet free.

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Questions and Answers

Conducted by
Prince F. Woods, M. D.



Egg Cartons.

Q. Please let me know where you buy your egg cartons that are mentioned as used by The Anchorage Farm, Onarga, Ills.

J. W. J.

A. If you will look thru the advertisements you will find that cartons may be obtained of a considerable number of paper box manufacturers. We use a good heavy grade of 2x6 egg carton with our farm label thereon. The 2x6 cartons fit best into market egg cases, but it is wise to buy only good quality, heavy weight, strong cartons.

Fish for Poultry.

Q. I live by the Calumet river and I am able to catch plenty of fish, but do not know how to prepare them for poultry. My father used to say that raw fish would make hens broody, so I wish to cook them. Please tell how to cook and prepare fish for feeding chicks and laying hens.

South Holland, Ills.

W. L.

A. We feed the fish when fresh caught. Usually put the catch into a galvanized iron pail and pour scalding water over them and let stand until cool. Then feed the chicks all they will clean up quickly. Feed them just as they are without preparation. For laying fowl we boil the fish and usually mix the whole mass with ground grain mash mixture into a crumbly mash. If the fish are very fat we allow the boiled fish stew to cool and skim off the fat and oil and then heat again before mixing with mash. When using such fish mash for stock birds from which eggs are used only for hatching or for growing chickens we do not bother to skim off the fat. Only remove the fat from stews used for flocks producing table eggs, as much fish oil is liable to give a fishy taste to the eggs.

Separation of Flocks.

Q. I first began to raise fancy poultry a year ago. Now I have two breeds, S. C. Buff Leghorns and Lakenvelders. Please let me know whether or not I can safely allow both breeds to run together until January, when I intend to separate the flocks for mating. I want to give them all free range. Would there be danger of impairment of true colors of the breeds by letting them run together in this manner? How long should they be separated before breeding time?

Kansasville, Wis.

P. R. S.

A. We do not believe that there is any danger of contamination thru letting them enjoy free range together, if you separate the flocks long enough before breeding. Would want to mate up the flocks for six weeks or so before using eggs for hatching. However, we do not think it advisable to let the pullets and cockerels run together on the same range, as the males will worry the

females altogether too much for best results.

Noisy Cackling at Daybreak.

Q. I have a flock of 45 White Orpingtons in a comfortable open front house. For some unknown reason they begin cackling at daybreak, a cackle that seems to indicate fright, and keep it up until one speaks to them, when they quiet down. Of course, if this continues, as we live in the city, we will have to dispose of the flock as they awaken the whole neighborhood. Can you suggest the cause and a remedy? This has just developed within the last few weeks. This morning at 4 o'clock we let them out in the yard and that seemed to stop the noise. We have no male with these birds and so do not have the annoyance of crowing with the cackling. I certainly do not want to dispose

of this flock, but will have to if the cackling continues.

La Salle, Ills.

M. B. B.

The noisy cackling at dawn is a pretty certain indication that the birds have been disturbed and frightened. Trouble is probably due to rats in the poultry house. We had several flocks that began that noisy daybreak cackling in June—although we had cleaned out the rats early in spring. On the first rainy day we organized a rat hunt, having the earth floors dug up under sills and using our Airedale terrier, "Shag" to do the rat catching. Out of ten houses we took a kill of over 200 rats of all sizes, from new born to adult. In one house there were killed, fifty rats. Most of our houses are in the woods and rats are very troublesome. In one house where cackling was most noisy and continued at intervals through the day, the dog caught

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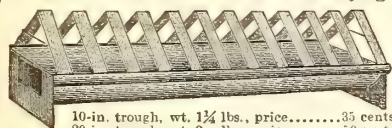
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"A Revolution in Egg Production." See page 907.

two very large gray squirrels. Since the day of the "great kill" the daybreak cackling has ceased. When it starts again we shall have another rat hunt. As you are in city it is probable that rats are the cause of your trouble. If, after hunting out the rodents, you still find the flock noisy in morning, would leave the door to yard open so that the birds can get out of doors as soon as it is daylight.

Chicken Troubles.

Q. I have about 100 chicks three and four months old that are not doing well. They get sick and die, usually in a day or two. Their crops are usually empty but sometimes have a hard caked substance in them. I feed according to the Cornell formula, with the exception that I feed buttermilk instead of beefscrap. I keep the buttermilk before them at all times as a drink and sometimes mix their mash with it. This milk is not always very fresh, however, and thought that might be the cause of my trouble. I keep their brooders clean and plenty of fresh water before them. Have a brooder house 60 feet long and have it divided into several pens. I keep the windows all open in the front of the house at all times so as to give them plenty of fresh air. These chicks were hatched in incubators and seemed to be healthy the first week or two. They have free access to a grass range at all times.

Dallas City, Ills.

H. G. D.

A. Faulty feeding and care is probably cause of trouble. Stale buttermilk may be starting point of indigestion and malnutrition. Would stop all food for twenty-four hours and give only scalded sweet milk to which has been added enough well-boiled bread flour to make it the consistency of heavy cream. This should be lightly seasoned with grated nutmeg and a very little salt. Give what they will take freely every four hours. As appetites improve return gradually to granulated chick food and give them a box of short sprouted oats to scratch over daily—feed sparingly. Do not give any moist mash until they show considerable improvement. Be sure that any mash fed is removed as soon as they have had a fairly good meal. Do not leave wet mash about to sour, as sour mash will cause serious trouble. Do not leave wilted oat sprouts before them.

Beginner's Business.

Q. (1) Early this spring I purchased a \$30 mated pen of White Orpingtons. In the fall I expect to have 25 or 30 cockerels and a few pullets for sale; which I hope will be worth from \$3 to \$10 each. Will there be any difficulty in disposing of these because of their being too young, as they will be late hatched, April, May and June? Which would be the best way to go about selling them? Is it possible for a beginner to ask and receive these prices?

A. (1) As you lack experience in selection of specimens, it is not likely that customers will want to purchase on your personal selection and price of stock. Get some experienced breeder or judge of White Orpingtons to go over your flock in the early fall and appraise them for selling value, leg band them and then keep a careful record of the appraisal. Advertise them, stating the facts, and you should be able to dispose of the birds to good advantage.

Hot Weather Stunts the Growth of Chicks

You know, early hatched chicks when matured have greater vitality and naturally lay more eggs than those that spend the developing period of their lives in the heat of summer.

Early hatched birds are matured when cold weather comes and they lay when the price of eggs is high. With a 1200-egg capacity or larger Candee Incubator, you will be able to hatch all your chicks early and will make more profit from your poultry.

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Automatic, Sectional, Hot-Water Incubator

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You will be sure to hatch the largest possible number of good chicks with the Candee, because in this incubator the eggs cannot overheat. There is a regulator at each 300-egg compartment that stops the flow of hot water into the compartment when the temperature is right.

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Because there is an automatic regulator at each compartment, it is *not* necessary to move the trays of the Candee up and down to give the eggs the correct heat. You need not be there to lower the trays should the temperature rise for any reason. The trays of the Candee always remain stationary.

You can start a hatch with 75 eggs in a Candee Incubator, and this hatch will not interfere with any other eggs or the operation of any other compartment, because each compartment has its own automatic regulator.

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Because the Candee comes to you all-built in 600-egg sections, you do not need expert mechanics from the factory to install it. You save this expense because you can easily and quickly set up the Candee on its legs yourself.

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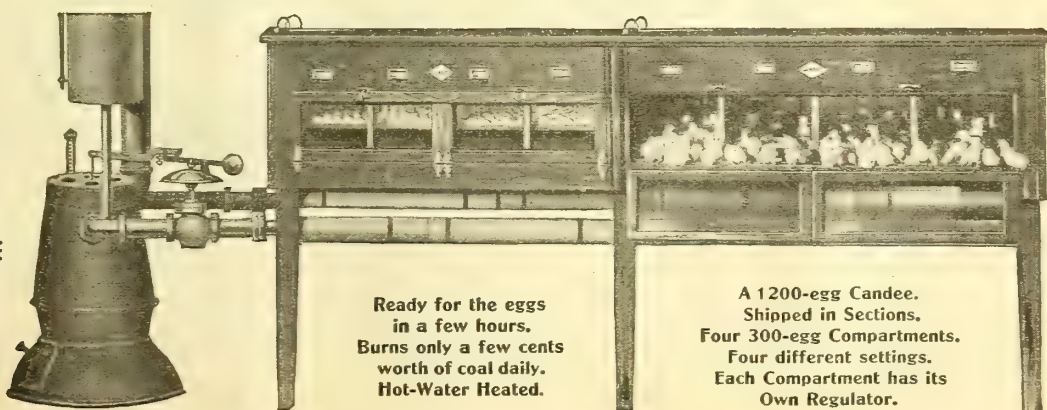
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Fred Rau, Grand Hotel, Indianapolis, Ind.

Q. (2) I have often heard of people buying eight or nine hundred baby chicks and later on selling them as broilers. Would it be possible for a person to buy the same number of good pedigreed stock and later on sell them at fancy prices? What time of the year would be the best buying and selling time? Edgerton, Wis. S. F. S.

A. (3) Fancy prices depend upon the record of the strain and the reputation of the breeder. We hardly think that such a plan would pay you, as you would first have to establish your reputation as a skilled breeder and grower of high class stock. You could, of course, employ a judge to appraise your chickens when grown, but as first-class, salable, high-priced specimens are not commonly produced in large numbers from purchase of either hatching eggs or day-old chicks, you would be taking a long chance. It takes skill and experience to grow quality chickens to sell at fancy prices. Better stick to your mated breeding stock until you have more experience.

Beginner's Questions.

Q. (1) What is meant by "the Horgan system" and is it any good?

A. (1) It is a system of selecting the layers and best producers in a flock and published under copyright. We are not in a position to comment on its merits. Certain methods of selecting layers by physical characters have been in use for a long time and when applied by those who are skilled and experienced observers, it is possible to cull a flock in a very satisfactory manner.

Q. (2) What is meaning of "cock-erel bred female" and "pullet bred male?"

A. (2) They are terms employed when referring to "double matings." In "double matings" two families or special matings are required to get exhibition quality in males and females of the same variety. These family lines are not crossed but are kept practically as two breeds within a breed,—one line to produce exhibition males and another to produce exhibition females. A "cock-erel bred female" is a female from the family line used to produce exhibition cockerels. A "pullet bred male" is a male from the family used to produce exhibition pullets. Such specimens differ in certain characters from the standard description for exhibition birds. Attend the shows where such specimens are given classes and compare them with the regular Standard classes.

Q. (3) What is the difference between "Standardbred," "Thorobred" and "Purebred?" Sagle, Idaho. H. C. H.

A. (3) The terms are generally used interchangeably by poultrymen. "Standardbred" as used by poultrymen, refers to poultry bred according to the recognized Standard of Perfection, published by the American Poultry Association; altho, of course, stock bred to any breeders' standard might be spoken of as standardbred or bred to a standard. A "thorobred" is one having an ancestry from noted stock of which record is kept in a stud-book. "Purebred" means practically the same thing or bred from pure stock that has been kept pure blood by constant inbreeding of the same family lines for many generations.

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Adult Ration for Growing Chicks.

Q. How soon can growing chicks be put on the same food ration as adult stock?

Seattle, Wash.

J. C. B.

A. When one month to six weeks old they can usually take the same mash as laying fowls and at two months old can have same scratch grain. If regular feedings are given, give two feeds of scratch grain and one of mash daily. If dry mash is kept before them all the time give scratch grain in light feedings at morning and noon, and a full feed at night. If range is a good one, with mash before them they may not need the grain at noon.

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WHITE LEGHORN EGGS

From pens headed by Chicago and St. Louis winners. Place your order today. Free catalog.

G. J. Gerber, Box 188, Dalton, Ohio

Mating Blue Varieties.

Q. I have your 1915 Year Book. On page 77 Haldie Nicholson tells the origin and history of Blue Orpingtons and how to mate off-colored birds so as to get Standard colored offspring. Would it be possible to get the same results from Blue Andalusians?

A. We believe that the same principles will apply with all blue varieties.

Jerky Walk.

Q. (1) The cock is about three years old and appears to be in good health, except that he has something the matter with one of his legs. Whenever he walks or runs he sometimes falls over and seems to be weak in the legs. He walks with a sort of jerky motion and raises his legs up high before putting his feet down. I have only had him a short while, and the man I got him from had him confined for quite a while.

A. (1) Examine front of hock joint, just under feathers. You will probably find same inflamed and perhaps ulcerated. Wash with soapy water and apply unguentine—this ointment can be obtained at any pharmacy. Cleanse and dress daily until cured.

Q. (2) The cockerel I raised myself. He has his right wing curled under. It seems to have been hurt when he was very young. The trouble seems to be in the bone and I am afraid that his wing will always be that way.

A. (2) Deformity may result of injury to be hereditary.

Q. (3) What I would like to know is, whether it would be all right to breed with these birds. Both are pretty good specimens, and if would not affect the young I would like to use them this fall and spring.

M. J. R.

A. (3) If cock bird responds readily to treatment and recovers, it will be well enough to breed him. We would not want to breed the cockerel.

Kerosene for Lice.

Q. (1) Does it in any way injure chickens to put kerosene oil on them to kill lice?

A. (1) Kerosene oil will blister the skin of fowls. Do not use it on either fowls or chicks.

Q. (2) Does it result in injury to the hens to have male run with them the year around? Especially when hens are kept in small enclosure. Should the male be taken away when eggs are no longer needed for hatching?

A. (2) While it is better to give the females a rest from the males when thru breeding for the season, it does not necessarily result in injury to permit males to run with flock the year around. Would not pen a male bird up for a long time alone or without females.

Q. (3) Will hens lay as well during fall and winter when they have no male with them as when male is running with flock?

Lexington, Tenn.

S. B. S.

A. (3) Yes.

Poor Beef Scrap.

Q. Am sending you enclosed a sample of beef scrap. Would you advise me to buy this sort and would it be good for both chickens and adult stock?

Toomsba, Tenn.

E. H. S.

A. We would not use it. The sample looks and smells more like a fertilizer than a scrap for poultry feeding.

You Can Earn \$250 A MONTH With This NEW MACHINE



Many are doing \$3,000 a year and better with this new machine. You can too. You need no experience. We teach you FREE in one simple lesson. Start right at home. Everywhere there's plenty of money and big cash profits waiting for ambitious men.

THIS IS THE BUSINESS FOR YOU

A business all of your own. Requires little capital and grows fast into a real factory—a real manufacturer. Open a **Tire Repair Shop** with **Haywood Equipment**. Let the money roll in. Auto tires need mending constantly. There is your profit. Owners eager to give you their business. It means a saving of money to them, and big cash returns for you.



Shows how easy the work can be done. Shows the big profit in this new field. Write for it today. A postcard will do. Get your FREE copy.

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A valuable guide to power and wealth. It gives the complete details. How to start. How to succeed. Tells all about your opportunity. Haywood Tire and Equipment Company, 526 Capitol Ave., Indianapolis, Ind. Gentlemen: Please send me your book as you promised to do. This of course does not obligate me in any way.

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Address _____

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258

and
282

OFFICIAL RECORDS

RHODE ISLAND REDS

231

and
251

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Pedigreed Leghorns, Reds and Wyandottes

Hatching Eggs

Cocks and Cockerels Hens and Pullets

Trios and Pens

Be sure to write us before placing orders, stating your wants fully. Prices reasonable.

WRITE TODAY

THE READ POULTRY FARM
Watervliet, N.Y.

WHITE LEGHORNS

248

and
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CYPHERS' RECORDS

WH. WY. ANDOTTES

274

and
282

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GET MY PRICE

THIS is the finest, cheapest, most efficient hatcher I have been able to produce after thirty years. Thousands have proven it perfect in heat, moisture and ventilation. Round like a nest, just the right size, 66 eggs, for economy, convenience and results. Fitted with famous Sheer Automatic Fixtures, and guaranteed to hatch every hatchable egg. The 1916

**"Peerless-66"**

is the only practical, all-metal, fire-proof, everlasting hatcher ever produced. Make any new or old incubator absolutely automatic with Sheer Fixtures, Automatic Lamp, Regulators, Complete Heating and Ventilating Systems, Incubator Parts, etc. World's standard 25 years. Big Book FREE. **H. M. SHEER COMPANY**, 165 Hampshire St., Quincy, Ill.

SCHUMACHER**Scratch Grains**

Rich in Protein and Carbohydrates—makes hens lay better.

Chick Feed

Contains Oatmeal—makes big, healthy, fast growing chicks.

THE QUAKER OATS CO. CHICAGO, U.S.A.

Home and the Table

Good Things for Everybody

Helen F. Woods
Editor

EVERY MAN AND WOMAN in the United States should read Dr. Frank Crane's "War and World Government." It is a book destined to awaken people to a realization of the futility and waste of war and the best means of preventing it.

Dr. Crane is a master of clear thinking and lucid expression. No book has appeared for many years so fruitful of world betterment. It should become a text book in the schools and colleges throughout the land, and no worthy citizen should fail to give it a careful reading.

"War and World Government" is at least half a century ahead of the times. It is forceful and illuminating from cover to cover and more interesting than a "best seller." Read it yourself. Interest your children to read it. Loan it to your friends. It is a book that will live and play an important part in history making. I would like to see it placed in every library and school throughout the country and on the reading table of every home. Dr. Crane brings his readers to a plain realization of the necessity of Nations being governed by the same high code of honor demanded of individuals. If his book were read by the thinking people of the world there would be no more war. His method for war prevention is sane—plain common sense. And the workers—the wealth producers—of the earth do not have to be taxed to the last cent to carry his plan into effect. Read the book and think it over.

The following are a few pithy quotations from it:

"No two nations would go to war if the interests of the people were considered. . . ."



**Old Dutch
Cleanser**
Chases Dirt

The people have nothing to gain and everything to lose by great armies and navies, whether maintained in the idleness of peace or in the destructiveness of hostilities."

"A cause (of the present war) still deeper and more real is the fact that millions of men are kept under arms, drilled, impregnated with notions of military glory, and hence welcoming any war as an outlet for their enthusiasm and an opportunity for advancement. The greatest cause for war is military preparedness. When a nation spends millions of dollars for fireworks, sooner or later they want to see them fired off."

"National vanity and touchiness, truculency, and war preparedness are as terribly destructive and idiotic in a state as vanity, bullying, and boasting are vicious in a boy."



Mrs. Woods, associate editor of American Poultry Journal, weeding one of her flower gardens. The Anchorage Farm, Silver Lake, Mass. June, 1916.

"Peace is essential to progress, war means the triumph of the moss back."

"Pride, mediaevalism, autocracy and militarism are not mere picturesque stupidity; they contain in themselves the seeds of the destruction of the world."

"No permanent peace is possible by preponderance of arms."

"There are two kinds of cowardice—physical and moral. The nations are physically brave—that is, they are willing to starve and to

die and to fight, which is the dog or cat level of courage. But morally or humanly, they are cowards. They dare not trust each other. They dare not settle their differences by law."

"What we need is that the earth's people get together by intelligence, humanity and mutual benefit and establish a new precedent. What we need is to consider the people—all the people—and to send the interests of dynasties and the 'honor' of nations to the scrap heap."

"The world has been shown that heavy armaments cannot insure peace."

"The opposite to war, is not peace. It is federation. War is barbaric craziness; federation is civilized intelligence."

"No war should be declared except by a vote of the whole people."

"Personal self-respect does not imply that a man carry a rifle in the streets to secure justice for himself. National self-respect does not imply that each nation be so armed as to be ready to right its own wrongs. There can be no intelligent, wholesome patriotism until we get rid of militarism."

"I contend that the policy of 'force behind righteousness' has caused all the deviltry of nations for the simple reason that each nation easily persuades itself that it is the righteous one."

"Europe has . . . defended its 'honor,' it has worshipped the 'big stick,' and it is now hellbent for bankruptcy, slaughtering its sons in Berserker madness."

"No sum of money in too great to spend in making Japan, Mexico, and all other countries feel that this vast democracy of free people is friendly and not suspicious, that we are generous and unafraid."

"What is vice and weakness in one man cannot become a glory in any multiple of men."

"If possible, we would like our nation to conduct itself as decently as we expect our children to conduct themselves. And in international relations one ounce of gentlemanly courtesy, forbearance, patience, and civil words it better than tons of chip-on-the-shoulder bellicosity."

"A vain individual is disgusting enough, but a vain nation is a hundred million times worse."

"Provincial people are the best haters."

"Nothing will be settled by the gun war except which nation has the most guns and men, and for that what do the people care?"

"Let us look at facts. Armament of each nation never has secured peace. Inexorable logic says that it never will."

"The policy of military preparedness some desire to force on us is not new. It has been tried pretty consistently some 6000 years. It smashed eventually Egypt, Greece, Rome, Spain, and France as world empires. * * * The nation whose ambition is to be feared invites its own destruction."

* * *

A SAVORY DAINTY FOR FAMILY SUPPER.

By Clara Hersom Weeks.

After the mid-day meal, put one cup of fine seeded raisins and two cups of cold water in an enamel stew-pan, cover and place over the fire to simmer slowly for three hours, or more. The fruit will become plump and tender and the juice will be clear and fragrant as wine. One-half hour before serving time heat in double-boiler one quart of fresh milk; when about to boil, thicken with the yolks of two well-beaten eggs to which half a cup of cold milk has been added, and allow but a moment's boiling. Remove from the fire and add the raisins and their juice. Pour all into a hot tureen, placing bits of butter over the top; also a generous sprinkling of nutmeg. Carry steaming to the table, and serve in small bowls with crisp unsweetened crackers. Very nutritious.

SMITH'S SINGLE COMB BUFF LEGHORNS

The largest breeder of Buffs in the world. I have no other breeds. Eggs ½ price in June, July and August. Fine breeders from best bred-to-lay stock as low as \$1.25 each in June and July.

F. S. SMITH, Box C and D, HAMILTON, OHIO

Half-Price — EGGS (R. C. REDS) STOCK — Half-Price

Our Summer Sale of breeding stock begins June 1st. Some grand birds in this offering, bred in the same lines as our winners. They go at ½ their actual value. An opportunity—will you take advantage of it? Write for sale list and liberal guarantee. Eggs now ½ price. LONGFIELD POULTRY FARM Box 321 BLUFFTON, IND.

ROSEDALE EGG FARM

White Leghorns, Barron Strain, chicks and 6-weeks-old pullets, eggs and breeding stock. CRITTENDEN & SON PORT HURON, MICH.

BARGAIN SALE of WYANDOTTES, in Silver, Golden and White

I offer several hundred head of fine birds out of my matings at less than half price, either show birds or fine stock birds. Eggs now \$1.50 and \$2.50 per setting. Golden Sebright eggs at \$3.00 setting. Large circular. IRA C. KELLER Brookside Farm Box 75, PROSPECT, OHIO

White Wyandotte Farms

are now disposing of some very choice breeders and also selling strong fertile eggs at reduced prices. Send for mating list. OSCAR L. BOCK, COUNCIL BLUFFS, IOWA

WHITE WYANDOTTES

Eggs after May 25th from all pens including our Philadelphia winners, \$1.00 per 15, \$5.00 per 100. Chicks from the same pens, \$8.00 per 50, \$15 per 100. Hens for sale, \$2 and \$3 each.

CARR BROS., Celtic Poultry Farm Box R, VINELAND, N. J.

STILES' COLORED Leg Bands

PROVIDE IDENTIFICATION

Identify birds as far as you can distinguish colors. Tell which are yearlings and which are two year olds without handling. Made in Red, White, Blue, Amber, Green, Black, Pink, Light Blue and Ruby. Mention variety when ordering.



ECONOMY BRAND—Single coil for adult fowls. 12 for 15c; 25-30c; 50-50c; 100-75c; 250-1.80; 500-\$3.50, postpaid.



ROYAL BRAND—Double coil for adult fowls. 12 for 20c; 25-35c; 50-60c; 100-\$1.00; 250-\$2.25; 500-\$4.00; Postpaid.



Bands For Growing Birds—(two sizes, state age) 12-15c; 25-25c; 50-40c; 100-75c; 250-\$1.75; 500-\$3.25; postpaid. **Baby Chick Bands** 25-20c; 50-35c; 100-50c; 250-\$1.25; 500-\$2.25; postpaid. **Favorite Poultry Punch**, for toe marking chicks, Price, 25 cents.



THE VICTOR BAND Has large printed numbers, bright and clear colors—Red, white, blue, green and yellow. Adjustable. Made of celluloid and aluminum. 12 for 35c; 25-60c; 50-\$1.10; 100-\$2.00; 200-\$3.75, postpaid.

ALUMINUM BANDS



THE CAPITAL BAND Has raised figures. Adjustable, strong, smooth edges. 12-15c; 25-25c; 50-40c; 100-65c; 250-\$1.50; 500-\$2.75; 1000-\$5.25.



THE FAVORITE BAND Made of heavy aluminum with smooth edges, Large raised numbers, locks with double clinches. Prices same as The Capital.

CHAS. L. STILES

232 N. Third St. COLUMBUS, OHIO

OLD FASHIONED GRAHAM BREAD.

½ yeast cake softened in ½ cup lukewarm water, 2 tablespoons butter melted in 1 scant cup scalded milk, ½ cup molasses, 1 teaspoon salt, 2½ cups graham flour, 1½ cups white bread flour.

Put the two kinds of flour and the salt in the mixing bowl. Add the molasses, dissolved yeast and cooled scalded milk. Mix thoroly. The dough will not be firm enough to knead. Cover well and allow to rise over night. In the morning, stir well, turning over and over and place in two small buttered bread pans. Smooth with a knife or spoon and allow to rise about double in bulk. Spread with melted butter and bake in a medium hot oven.

MOTHER'S HARVEST GINGER DRINK.

By Clara Hersom Weeks.

Beat one egg well, add one scant tablespoon of ginger and three tablespoons of sugar. Stir until perfectly smooth and add one quart of very cold water. When sugar is dissolved add one-half pint of vinegar, using according to its strength, only enough being needed to give the drink piquancy.

Eggs.

"Queen Elizabeth" is the inappropriate name of a Minorca hen, for which it is claimed that she has laid 343 eggs in 343 consecutive days.

If time proves that this feathered biped transmits her productive ability to her descendants, she will have been of greater real value to a world that is now paying 60 cents a dozen for eggs than was the monarch who is honored by having this queen of poultry named after her.

The Department of Agriculture says the American hen now lays in a single year \$307,000,000 worth of eggs, tho the average per fowl is much less than a third of "Queen Elizabeth's" record.

After all, eggs are more essential to humanity than crowned heads.—*Boston Post.*

Monmouth Farms Change Owners.

The poultry fraternity will be interested in learning that these famous farms have passed into the possession of J. J. and Thomas J. Watts, of Lexington, Kentucky. The Watts brothers are widely known as breeders of trotting horses. John Lockwood, the present efficient superintendent, will remain in active management of the plant. Extensive improvements are planned.

Sharpsburg, Pa., April 10, 1916.

American Poultry Journal,
542 So. Dearborn St.,
Chicago, Ill.

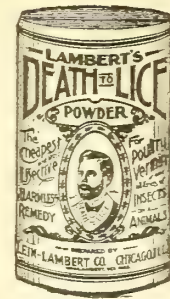
Gentlemen:

Herewith check to cover the ad that I'm carrying in your journal. Have received 21 inquiries for stock and eggs to date and all the credit goes to the American Poultry Journal, as your journal is the only one that I have an ad in.

I think the pulling power of your paper remarkable, as I only started to advertise with you in the April issue, this is only the 10th of the month and 21 inquiries is the result, an average of over two per day. I guess that's going some.

With best wishes for your success,
I am,

Yours very truly,
(Signed) J. G. SPENCER.



Coupon for Big Trial Size

Klein-Lambert Co.,
601 Traders Bldg.,
Chicago, Ill.

Dear Sirs:
Please find enclosed ten cents (10c) for which send me Big Trial Size of "Death-to-Lice," as advertised in AMERICAN POULTRY JOURNAL.

Name _____

Address _____

City _____

State _____

Makes 'Em Turn up Their Toes Mighty Quick

There isn't a ghost of a show for lice and mites on hens, chicks or nests after a dust with the old reliable Lambert's Death to Lice. It knocks 'em stiff in a jiff. As one of the big successful poultrymen wrote us, "It is impossible to get along without your louse killer," so it is with every user. There's nothing so efficient.

Don't Experiment

Follow the example of the leaders—ask any successful poultryman which lice killer has been the standard for 30 years—which is acknowledged BEST. He will tell you to

Get

Lambert's

OLD
RELIABLE

DEATH

TO
LICE



because he
has found
it **always**
the **BEST.**

Don't expect to make your hens pay and permit lice to worry and annoy them. The lice will get the profit and often the hens and chicks, too. A few cents invested in Death to Lice will bring dollars in profit. Just the thing for layers, sitters, and exhibition stock. Will not injure eggs, chicks or hens or soil plumage. Get a 5 oz. 10c box at dealers to try (or send to us direct if he can't supply you). Other sizes 25c, 50c and \$1.00. Lambert's Latest copy of "POCKET BOOK OF POINTERS," a valuable book for poultry raisers. Mailed for 2c stamp.

KLEIN-LAMBERT CO.

601 TRADERS BLDG.

CHICAGO

JUST A DAB

under the wings and
around the vent and

Conkey's Lice Fix

ends the hen of the body lice that suck away your profits. If you prefer dusting, use **Conkey's Lice Powder**, 25c, 50c.

Conkey's Lice Liquid sprayed around the poultry house destroys mites, worst pests of all. 35c, 60c.

Conkey's Poultry Tonic mixed in the feed makes heavy layers and good bodied market birds. 25c, 50c.

Spray **Conkey's Nox-i-cide** about the poultry houses and runs. Destroys germs and prevents disease. A hundred uses about the home as a disinfectant and cleanser too. 35c, 60c.

Send 4c for **Conkey's Poultry Book**.

THE G. E. CONKEY CO.

1000 Conkey Building, CLEVELAND, OHIO



One Gallon

Oil

Save oil and bother.

X-Ray Incubator with heating plant underneath requires only one gallon oil—one filling—for entire hatch.

X-Ray Incubators and Brooders

by prepaid express to practically all points. Send for free book No. 10 telling all about the 15 special features.

THE X-RAY INCUBATOR CO.

Dept. 10

Des Moines, Ia.

One Filling

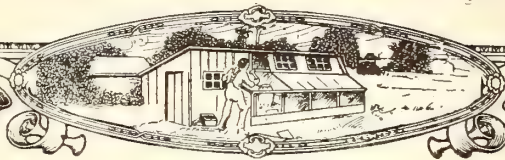
155 EGG

\$7.85 LOWEST PRICE YET FOR BIG 155 EGG INCUBATOR

Prize winning hatches—Sure results—Healthy chicks—Best Construction—California Redwood—Copper Hot Water Heater—Safety Lamp—Tester—Thermometer—Self-Regulating, etc. Frt. paid E. of Rockies. With Brooder \$9.85. Hundreds of Dead Air Cells. Big new offer this year—write.

PROGRESSIVE INCUBATOR CO., BOX 135 RACINE, WIS.

Readers Experience Department



Open-Front Housing.

THE article "Cheerful Places for Fowls" in the AMERICAN POULTRY JOURNAL for May is very interesting to me and I am writing to give some experience I have had with the monitor type of house here in Tennessee.

I noticed your article dealt only with the use of the house in the colder climates, but I have found that this type of house does wonderfully well and can be used in a variety of ways in our southern climate.

I experimented with a number of houses, but when I read of the monitor type and saw descriptions of it, it seemed to be the most sensible, combining science and practicability. I built a small one about 12x15, and after using it for three years the satisfaction and service it has given me strengthens my belief that it is the only type of house for all climates.

I built the house with front and upper monitor windows entirely open; however, I supplied canvas frames for the upper windows for severe weather. I found that the canvas did not fill all the needs, because here in the East Tennessee mountains we generally have about ten days of severe weather in the winter, when it is best to keep the birds in the house. The canvas keeps the house warm all right, but it does not let in the light that is needed when the birds are shut in. When I build other houses I will supply both the glass and canvas for the upper windows, then I am sure the house could not be beat.

In my opinion the monitor type of house has several advantages. The construction of it is more economical than most houses, as you get the same floor space with about two-thirds as much wall space. Its adaptability also appeals to me. I have used it for an incubator

house, a brooder house, for young stock on the range and for housing breeders, both summer and winter, and it has given the best of service for all uses.

Birds in a house of this type are really, as you say, always healthy and cheerful in any kind of weather. I noticed especially how cool and comfortable the house I spoke of was during the hot summer months, as with the front and upper windows open a continual draft was forced thru which cooled it most effectually.

I think that southern breeders should give the monitor a trial and if they receive the satisfaction from one that I have I am sure they will continue to use them.

I know of only few breeders in the south who use this type of house, but if you know of any I wish you would put me in touch with them, as I am particularly interested in southern breeders and their methods.

Perhaps you know that Morristown is the largest poultry center in the south and that the Board of Trade of Morristown is particularly interested in Morristown's poultry industries.

We have recently formed a Junior Board of Trade and one of our plans is to further the organization of county boys' and girls' poultry clubs. If we should do this, I intend to introduce the monitor type of houses to the young poultry breeders of this section.

ROBERT TOPPING, Pres.,
Morristown, Tenn. Junior Bd. of Tr.

White Orpingtons in Texas.

The White Orpington breeder, in my opinion, is entirely too silent. Perhaps he has all the business he cares for, but nevertheless he should let others know what he has, so that he may enjoy the prosperity that is to be had in raising this breed. There is no breed in existence today that demands the prices as do the White Orpingtons. Why is this? Simply because the demand is greater than the supply and the breeders deem it not necessary for extensive advertising.

Dear reader, you most likely are now raising some breed of poultry, or contemplating such, and I ask the question, "Why are you breeding that particular breed?" Simply because in them you see the particular fancy which you most desire, whether it be for the novelty of the breed, its beauty, its high egg productiveness or its ability to develop into a table fowl in the least possible time. But today the poultryman is striving to select a breed in which all these particular characteristics are so blended that he has a general purpose fowl which is the most popular and profitable fowl one can raise.

In the S. C. White Orpington we have a breed that is a leader in every branch of the industry. First let us look at the beauty of these snow white pets, which

What's
a

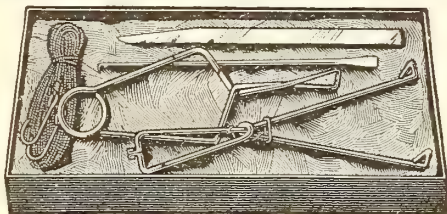
CAPON

and
Why?

64 Page 6 x 9 inch BOOK that explains everything you will ever want to know about CAPONS. 50 pictures from life that show each step in the operation. List of Capon buyers' addresses. Tells how to prevent "Slips," where to get the best and cheapest capon tools. Copyrighted new and revised 1915, 4th edition. Regular 50 cent copy, prepaid to your address for a Dime in coin or stamps.

Which Shall It Be,
20c Rooster or
\$2.00 Capon?

Let me explain how to do it. I have this information all illustrated and printed in a nice little circular that I will be glad to send you free of cost. Send me your name and address plainly written and I will send it to you by return mail.



HIGHEST GOLD AWARD, "WORLDS FAIR"
PANAMA-PACIFIC

THIS IS THE
Automatic Safe Set
No. 10

Sent Postpaid for \$3.50

Exactly like Mr. Beuoy uses himself. Guaranteed to satisfy you or your money back. Order direct from this advertisement and a copy of the above mentioned book will be sent free.

GEORGE BEUOY, R. R. No. 7 CEDAR VALE, KANS.

Mapleside Bred-To-Lay

Barred Plymouth Rocks

ACKNOWLEDGE NO SUPERIORS AS LAYERS

Eggs for hatching, 10c each. \$4.00 per 50. \$7.50 per 100.
Circular of facts free.

O. F. MITTENDORFF

Box F

LINCOLN, ILL.



290 EGGS
IN ONE YEAR

Morris White Orpingtons

Winnings at Madison Square Garden, New York, 1916: 1st Cock, 2d Cockerel, 1st and 4th Hen, 1st and 4th Pullet. Our 1st Pullet won cup offered for Best Orpington hatched in 1916. If you want Quality White Orpingtons, write us. Mating list ready.

THE MORRIS POULTRY FARM

LEBANON, OHIO

RAWNSLEY-SHIELDS POULTRY FARM

S. C. BUFF ORPINGTONS AND SPECKLED SUSSEX

Greatest winners at Madison Square Garden, New York, and Chicago Coliseum.

5173 N. High St.

Columbus, Ohio

CHAMPION BARRED ROCKS

Leading winners at Philadelphia, Chicago, Allentown, Hagerstown and other shows.

C. GUY MYERS

SIDDESBURG, PA.

AN ENGINE BOOK WITH A PUNCH

Would you build a house with a foundation like this? Would an iron kettle hold water better if the bottom were cut off and patched on again like this?

No! Then why build a new book like this?

FREE
A BOOK YOU NEED

JUST take a postal or scrap of paper and write the word "Why?" on it with your name and address and I will mail you this book. Lively as a joke book. Sensible as the dictionary. Learn more about engines in 10 minutes than some men learn in a lifetime. The supply is limited so write quick.—ED. H. WITTE.

WITTE ENGINE WORKS,
3037 Oakland Avenue, Kansas City, Mo.
3037 Empire Bldg., Pittsburgh, Pa.

Keeps Water at Even Temperature All Year 'Round

Absolutely sanitary. Water cannot be polluted. Prevents disease. Saves work. Increases egg yield. Ira Franklin, Mgr., Farmers Grain Co., Atkinson, Illinois, says: "The Ideal Sanitary Fountain is the best I ever used." Made like a fireless cooker, of heavy galvanized iron, strong and durable. See it at dealer's. Send for circular, testimonials of satisfied users, and low prices.

Rockford Poultry Supply Co.
Lock Box JG-201, Rockford, Ill.



Poultry Bands
Pigeon Bands—Nest Tags

All goods guaranteed to be just as represented.

ALUMINUM BANDS with raised figures, price postpaid, 12-15c, 25-20c, 50-30c, 100-50c.

SPiral CELLULOID BANDS, 10 different colors; price postpaid, 12-15c, 25-25c, 50-40c, 100-65c.

COLORLED CELLULOID, with Aluminum Back. Any color, two large black numbers in each band; price 12-30c, 25-50c, 50-90c, 100, \$1.50.

The National Poultry Band Co.
Send for Catalog, **Newport, Ky.**

"Poultry Secrets"—FREE

Every poultry raiser should have our treatise on care and feeding of chicks from shell to maturity. Tells what to do every day. Gives valuable Formulae, worth \$100.00 to poultry raisers. Send 2 cents to cover postage. For friends, we will mail a copy to you and six of your friends. Write name plainly.

PITTSFIELD POULTRY FARMS COMPANY
190 Main Street, **Holiston, Mass.**

CHICKS

The Baby Food for Chicks
BLATCHFORD'S MILK MASH

Send for sample, particulars, etc., to
BLATCHFORD CALF MEAL FACTORY
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Oat Sprouter \$2

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I. PUTNAM, Route 705 ELMIRA, N. Y.

I term them, they being the most docile of any breed in existence. My yards are of 4-foot fencing and our flower beds are protected by 2-foot fencing, and we have yet to find an Orpington which refuses to be contented within these confines. Their large round symmetrical bodies carried so stately and proudly on their white legs, their medium size single comb adds a particular fancy not to be had in any other variety. In the show room there is no breed which attracts more attention than does the White Orpington, and they are conceded by all breeders as being one of the most beautiful breeds to meet with popular favor. And you can't get away from them going or coming, in the show room, or breeding pen. On the lawn, or in the frying pan the Orpingtons are a most attractive fowl.

Perhaps you say, why breed for the beauty of the bird that you desire laying qualities, and right here is where the Orpington is dealt an unjust blow. You say they are so large that they cannot be heavy layers, and I used to be of the same opinion, until I became a breeder of them.

Trace the White Orpingtons back and you find them descendants of the world's heaviest egg producers, such as the White Leghorns and Hamburgs, and I can say that the Orpington has not fallen short of its ancestors as egg producers. My birds have proven this, as well as others, placed in competitive laying contests held thruout our country. You will always find the Orpingtons crowding the top of the column. The cold winter months (when eggs demand twice the price of spring eggs) is harvest time with this breed in the egg line.

Again you are looking for a bird for market purposes, a bird of large size, rapid growth, and meat of superior quality, a bird that can be put in the frying pan at the least possible cost. Here the Orpingtons are in a class by themselves, developing into broilers from 6 to 8 weeks and fryers at 8 to 10 weeks. I now have in my yards a brood of 20 odd chicks that were hatched January 15th and at this writing are exactly 3 months of age, the smallest weighs 2½ lbs. and others weigh 3 lbs. each.

Some breeders claim better averages than this, but I think this good, and better than can be done with any other breed.

The old adage so common with the utility breeders that you cannot unite fancy and utility successfully, I find amounts to naught when breeding White Orpingtons. For example, take my best breeding pen, which contains 8 females, 5 hens and 3 pullets, five of these birds were winners last fall at one of the largest shows in the south.

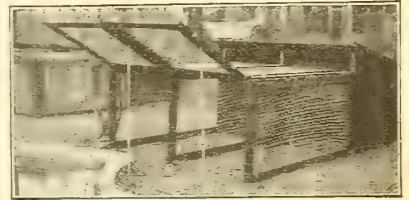
I do not trap nest my birds, as my other work requires too much of my time, but I do keep a daily record of each pen. From December 1st, 1915, to April 15th, 1916, this pen of 8 birds laid 678 eggs. I consider this an excellent record, as some of the hens were 3 and 4 years old and past their laying age.

Out of these eggs I have hatched 265 chicks, besides selling a number of settings.

The pullets I find to be extra heavy layers at an early age, for instance one pullet in the pen just mentioned was only five months old when she won first prize in the largest class of White Orpingtons ever seen in the south, weighing at the time 7 lbs., and one week

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after the show she started laying and has layed continually thruout the winter and is still laying.

There are no better mothers than the Orpingtons if permitted to set, but are very easily weaned from their broody spells.

The chicks when hatched are pure white, some yellowish, and develop faster than any other breed. And when you have a matured fowl on the table, you will find it necessary to explain to the guests that it is not a turkey.

I find that the Orpington does equally as well in confined runs as an free range, and for this reason are the breed for the city fanciers.

Now size these factors all up, put them together and you have the White Orpington the general purpose fowl. We breeders know it, but don't boast of it. Breeders of other varieties know it, but won't admit it. The Orpington has gained popularity thru their own merits and not thru the efforts and extensive advertising of their breeders.

Here's hoping that this breed may enjoy the prosperity in the future as it has in the past.
Waco, Texas. A. R. GILMORE.

A Timely Letter.

Hampden-Sidney, Va., April 13, 1916.
American Poultry Journal.
Chicago, Ill.

Gentlemen:

For some months I have read in certain of the poultry journals exposes of poultrymen that presumably were not treating purchasers honestly. Of course, if a breeder is a proven swindler and scoundrel, it is the duty of a poultry journal to so inform its readers. I fear, however, that the persistency with which these relatively few cases are held up to the prospective purchaser's eyes will discourage many a would-be purchaser. The fact cannot be too strongly emphasized that the great big majority of the breeders of this country are honest, and that the cases in which the purchasers are really badly treated are dwarfed into insignificance by the cases of honest treatment—yes, I am convinced, even by the cases of generous treatment.

In the many purchases that I have made from advertisers in the poultry journals, I have ever been well treated. Will you allow me to tell your readers of my last purchase—from one of your advertisers—and the results? It puts a good taste in the mouth.

Last February I ordered from B. H. Scranton, of Rising Sun, Ind., 50 of his medium priced eggs, adding a few dollars to his price with the request that he substitute for a few of them, eggs from his better matings. The eggs came on time, 66 eggs instead of the 50 ordered, 31 of them from the better matings, and aggregating in value more than twice the amount of money sent him. The eggs after their 500-mile trip hatched almost as well as my own eggs, and the chicks have the appearance of thorobreds. I think that Mr. Scranton was over-generous; I am convinced that the average American poultry-breeder will give the purchaser a "square deal," and often a little more.

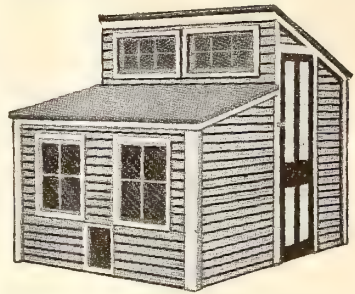
Yours very truly,

J. H. C. WINSTON.

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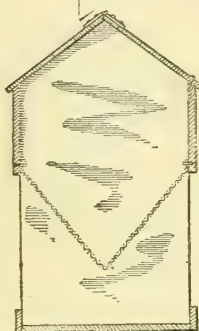
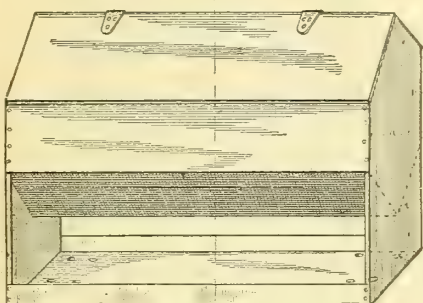
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Recent Inventions for Poultrymen

By Lester L. Sargent, Patent Attorney, Washington, D.C.

N. E. B. Talcott, Richmond, Virginia, has devised a feeder for young chickens consisting of a hopper with a V-shaped wire fabric bottom that properly supplies the feed to the substantially flat feed catching tray arranged beneath. As the feed descends in the hopper the



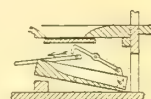
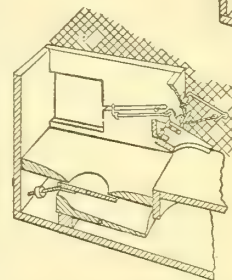
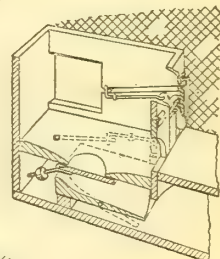
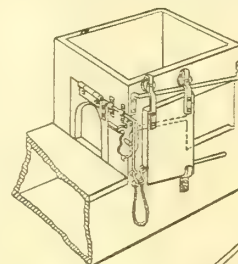
A poultry feeder, patented May 23, 1916, by N. E. B. Talcott, Richmond, Va. Patent No. 1,184,147.

inclined walls of the perforated V-shaped body portion exert a wedging effect upon the material, compressing it to a certain extent, thus preventing excessive feeding. As the chicks must reach up to peck at the feed, their heads are inclined so that there is no danger of having their bills caught in the wire mesh. The spacing of the bottom of the hopper above the feed catching tray permits the chickens to pass from one side to the other freely without danger from crowding. Patent No. 1,184,147.

Frank W. Nalley, Leaf River, Illinois, has invented a novel egg-handling device for removing eggs from one crate to another, obviating the necessity of handling the eggs one at a time and making the operation a more rapid one. The device comprises a supporting plate having a handle, depending egg-engaging fingers being arranged in the support in sets with filler-engaging fingers arranged in pairs and also depending from the support. A relatively movable slotted plate which receives the fingers and is adapted to open and close them when the plate is moved completes the device. This plate also is provided with a handle. The inner and outer handles or bails may be readily moved in opposite directions to open the resilient filler engaging fingers. A simple grasp upon the two handles with one hand operates the device. Patent No. 1,184,372.

Victor Gibson, Holbrook, New South Wales, Australia, has secured a U. S. patent, No. 1,184,341, on a poultry trap nest. The nest has a sliding entrance door, and a hinged exit door. Both doors are closed by gravity when re-

leased. A projection is provided on the entrance door and a lock for the exit door, the lock being released by engagement with the projection when the entrance door closes, the closure of the entrance door unlocking the exit door. With this arrangement, if the hen lays, she emerges into a special inclosure into which the exit door opens. If the



A poultry trap nest, patented May 23, 1916, by Victor Gibson, Holbrook, New South Wales, Australia. Patent No. 1,184,341.

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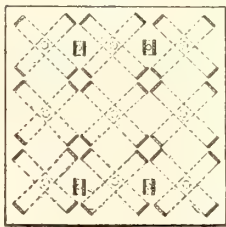
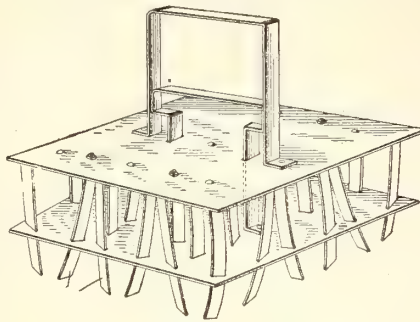
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12 T-Wharf Boston, Mass.

hen fails to lay she must return by the way she entered. The weight of the egg trips a latch and this in turn causes the entrance door to close and unlocks the other or exit door. When the hen pushes the exit door wide open, its con-



An egg handling device, patented May 23, 1916, by F. W. Nalley, Leaf River, Ills. Patent No. 1,184,372.

nection with the entrance door causes the latter to open. Then the exit door closes and becomes locked and the trap is reset for the next hen without attention on the part of any attendant.

Cleveland and the American Poultry Association Convention.

AT THE invitation and under the auspices of the Cleveland Poultry Breeders' Association, assisted by the Ohio Poultry Breeders' Association, the forty-first annual convention of the American Poultry Association will be held in the City of Cleveland in the Auditorium of the Hollenden Hotel, beginning Monday, August 7th, and ending Thursday, August 10th. It is expected that an unusually large delegation will be present at the several sessions, for many important measures will come up for consideration. On account of the shortness of the session, the committee, representing the Cleveland Poultry Breeders' Association, is somewhat hampered in its endeavors to provide contemplated entertainment for the visitors without interfering, seriously, with the regular business of the Association. However, it is going ahead and will carry out everything advertised. There is so much of interest in the Sixth City to be seen by visitors within her gates, that it is difficult to arrange a program of entertainment and sight-seeing for the limited time that the Association will be in session. We believe the members will be pleased with the selection of the Hollenden Hotel as convention headquarters. This is one of the finest hostleries in the country. It is a well-appointed hotel, inviting and home-like. The moonlight ride on old Lake Erie, with music and dancing, will, we believe, prove an enjoyable occasion for all. The committee has chartered for the evening of August 10th the fine steamer Saint Ignace and hopes that all members in attendance will avail themselves of the privilege thus afforded for their enjoyment.

The visit to the mammoth store of

the May Company, Wednesday, the 8th, planned for the ladies in attendance, will be to them an occasion long to be remembered. This is one of the great stores of the country, and will compare favorably with the largest and best. The auto ride for the ladies, scheduled for the afternoon of the 10th, will be a feature of the entertainment offered by the committee. No city of equal population can boast of a finer park and is proposed to give the American Poultry Association members an opportunity to view this system and enjoy its beauties by means of the auto ride mentioned above. Members having the time and feeling so inclined will be well repaid by a visit to the Federal building, the county court-house, the new city hall, Case School of Applied Science, Western Reserve Medical College, Garfield Monument, Warrensville Farm, Euclid Beach and Luna Park. There are numerous public institutions, a visit to any one of which will well repay the visitor for the time spent. In visiting any of the places mentioned, the visitor will have no trouble if he but avail himself of the information, which will be given gladly by the Committee, as well as the advantages offered by Cleveland's splendid street car service. No city in the United States can equal, much less excel, the street car service of the Sixth City. The Committee takes this opportunity to extend a cordial invitation to all members of the American Poultry Association, and to poultrymen in general, to be present and aid in making the forty-first annual convention the most successful of any yet held.

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Smaller Sizes
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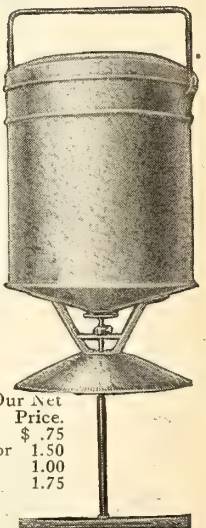
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WRITE Your Name on a Postal
and get our 1916 Incubator Book FREE postpaid. Shows why Prairie State Incubators "hatch most chicks that live." Contains chapter on Poultry Diseases, also one on hatching and rearing. **PRAIRIE STATE INCUBATOR CO.** 201 Main Street, Homer City, Pa.

Belle City Now 25 Times World's Champion Incubator

Get the story. My new Free book, money making "Hatching Facts," tells everything. Get all facts, proofs, full particulars, money-back guarantee. My low price will surprise you. Write today. Address Jim Rohan, Pres.
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Pearl Grit is an extra egg producer. Extra eggs increase egg money. The extra money more than pays for Pearl Grit. Users say so, and keep a supply on hand. The reason is, IT PAYS. We want you to write us today for detailed information. Booklet free.
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MONTHLY PRIZE CONTEST DEPARTMENT

The American Poultry Journal offers the following prizes monthly for the two best articles received on or before the fifteenth day of each month: For the best article, a prize of Three (\$3.00) Dollars will be awarded; for the second best article, a prize of Two (\$2.00) Dollars will be given. Articles intended for the Contest must be written on one side of the paper only and should not contain less than 1,000 nor more than 2,000 words. The articles may be written on any subject pertaining to poultry culture. We reserve the right to retain all articles submitted and to publish such as we deem worthy of space. Send all articles plainly marked to Contest Editor, American Poultry Journal, Lock Box 4, Silver Lake, Mass.

GROWING GREEN CROPS FOR POULTRY FOOD.

Do Not Allow a Blade of Grass to Wither While Your Fowls Are Standing About in a Sun-Baked Yard Suffering for a Bit of Green Food. First Prize Article in American Poultry Journal Monthly Prize Contest.

By R. L. CHAMBERLIN, Orange, Mass.

SOME KIND of green food is necessary for the health of fowls. It is an essential for the healthful rearing of chicks and only by its being supplied in some form can the poultry keeper expect to realize the greatest returns from his work with poultry. It is not too late now to make provisions for next winter's supply of green food. In planting, put in an extra supply of mangles, sugar beets and cabbage for winter feeding and there is a long list of summer greens which it will pay the poultryman to raise for his birds.

Of all the vegetables and roots fed to poultry as green food, I have found white mangles to be the best. They are sweet to the taste, delicate in flavor and can be grown in any locality where roots will thrive. No objectionable flavors are introduced either into the flesh of the fowl or the eggs as a result of liberal feeding of mangles. They are rank growers and keep well thruout the winter if protected from frost. They are easily fed and freely eaten by the fowls.

All kinds of beets, both tops and roots, are relished by fowls. We have found the best beet for poultry feeding to be Lane's Imperial sugar beet. They do not yield as heavily as mangles, but contain a large amount of sugar. I believe that raw beet may be fed too freely and result in diarrhoea and for this reason we feed them sparingly. When cooked they make a valuable addition to the ration and may thus be fed freely.

Sow both mangles and sugar beets in rows from two and one-half to three feet apart, covering the seed one inch, and making the ground firm over the seed. When about four inches high, thin to about eight inches apart. One pound of seed will give ample green food for 500 birds.

Cabbage is likewise a favorite green food for fowls, being liberally fed on many poultry plants. It is claimed by some to be too laxative but this is probably due to feeding too freely of frozen cabbage. In the fall the heads should be stored in a frost proof root cellar or buried for protection from frost. Cabbage requires a deep, rich mellow soil, plenty of manure and good culture to obtain the best heads. The young plants transplanted as late as July in rows three feet apart and two feet apart in

the row will give good results. In transplanting it is important that plants be set down to the first leaf so that the stem may not be injured, taking care not to cover the heart of the plant.

We have the best results by removing all but the two small center leaves, as they do not wilt down much in this way. Hoe every week and stir the soil deeply. As the plants advance in growth, draw a little earth about the plant until they begin to head. To prevent attacks of the cabbage fly, dust with wood ashes; for cabbage worms, sprinkle with fine salt. To prevent splitting or bursting of the heads, go occasionally over the crop and push every cabbage, that appears about matured, over sideways, which will break some of the roots and stop its growth. I have found the following varieties best for winter feeding: Livingston's Ideal Winter, Danish Ball Head, Sure Head and Flat Dutch.


For summer greens for poultry, keep growing a goodly supply of kale and Swiss chard. One-fourth pound of cabbage seed will provide sufficient green food for five hundred fowls, while a like amount of kale or Swiss chard should be plenty for five hundred chickens.

I do not consider turnips as desirable for poultry greens as beets, mangles or cabbage. When fed raw, turnips are apt to taint the flavor of eggs and they do not improve the flavor of market poultry. The rutabaga is the best variety for poultry feeding, but should not be fed to any extent. Lettuce is an excel-

lent food and quantities of it may be grown at little expense.

The tender leaves of any of the clovers and alfalfa are greatly relished by chicks or adult fowls. If the soil is adapted to the growing of alfalfa, the poultryman cannot do better than to establish a stand of this heavy yielding forage crop. Once established it will continue for many years and may be cut as high as four times in one season in some localities. However, clover is a much better crop in some sections and during the winter months clover hay makes a very fair substitute for green food for poultry. It may be used as a litter on the floor from which the fowls may help themselves or it may be cut into short pieces, placed in a pail, covered with boiling water, covered and allowed to steam for a few hours. It may then be thickened with ground grains and fed as mash.

Practically every poultryman has a garden. At least he should have, and the waste from it will prove of great value if fed to the poultry. An ideal way is to sow plentifully of those greens relished by poultry every few weeks until the middle of the summer, using the best grown vegetables for the home table and feeding liberally of the others to the fowls. But special provision should be made for winter greens by making especial plantings for poultry use. Rape and rye both make good cover crops for fall and winter feeding. They are easily grown and relished by poultry.



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All waste fruit should be fed to the fowls and not allowed to rot under the trees. I have seen flocks of stunted chickens on bare, hard-baked earth yards, suffering for a bit of green food and just outside the poultry enclosure in the orchard, bushels of apples and pears rotting on the ground. And the same in the garden with lettuce going to seed, corn drying up on the stock, and countless other perfectly good food stuffs being thrown into the waste heap. If you have never tried it, friend reader,

take the suggestion now and do not allow a blade of grass to wither while your fowls stand about in a sun-baked yard suffering for a bit of green food rich in natural juices. Tender blades of grass and other fresh forage plants when fed freely to fowls or growing chicks impart new life to the flocks. There is a life principle in this kind of natural poultry food that cannot be made good by any combination of dried grains. And it is up to every poultryman to provide greens in plenty for his birds.

COMMON SENSE POULTRY FEEDING.

Second Prize Article in American Poultry Journal's Monthly Contest.

By WALTER SCOTT HOWARD,
Buzzards Bay, Mass.

IT MAY seem presumptuous on the part of anyone, at this late day, to add to the voluminous records already written in regard to the feeding of fowl. How much printed matter has been circulated broadcast, by those who know and those who think they know—their methods are infallible, to feed otherwise is to court disaster! Yet how many puzzled poultry raisers are still searching eagerly for a new formula that may bring to them results hitherto unattainable.

If the key to the situation has been solved, why this frailty among the brotherhood? Is it, in truth, that there are too many keys to open what in reality is a very simple lock? We read of a hundred different formulas, all guaranteed to make hens lay. Tomorrow, when we awaken from our dreams of hope, we will probably discover another and yet another! A drowning man will clutch at a straw—so does the sinking hen-man grasp at these sticks thrown upon the surface. Are they essential? Are they necessary? Are they worth it?

Hens lay and lay abundantly, under very simple rules of feeding—provided, you feed the hens that lay. "Balanced rations" is a very sane phrase, but it may become absolutely insane by "over-balancing!"

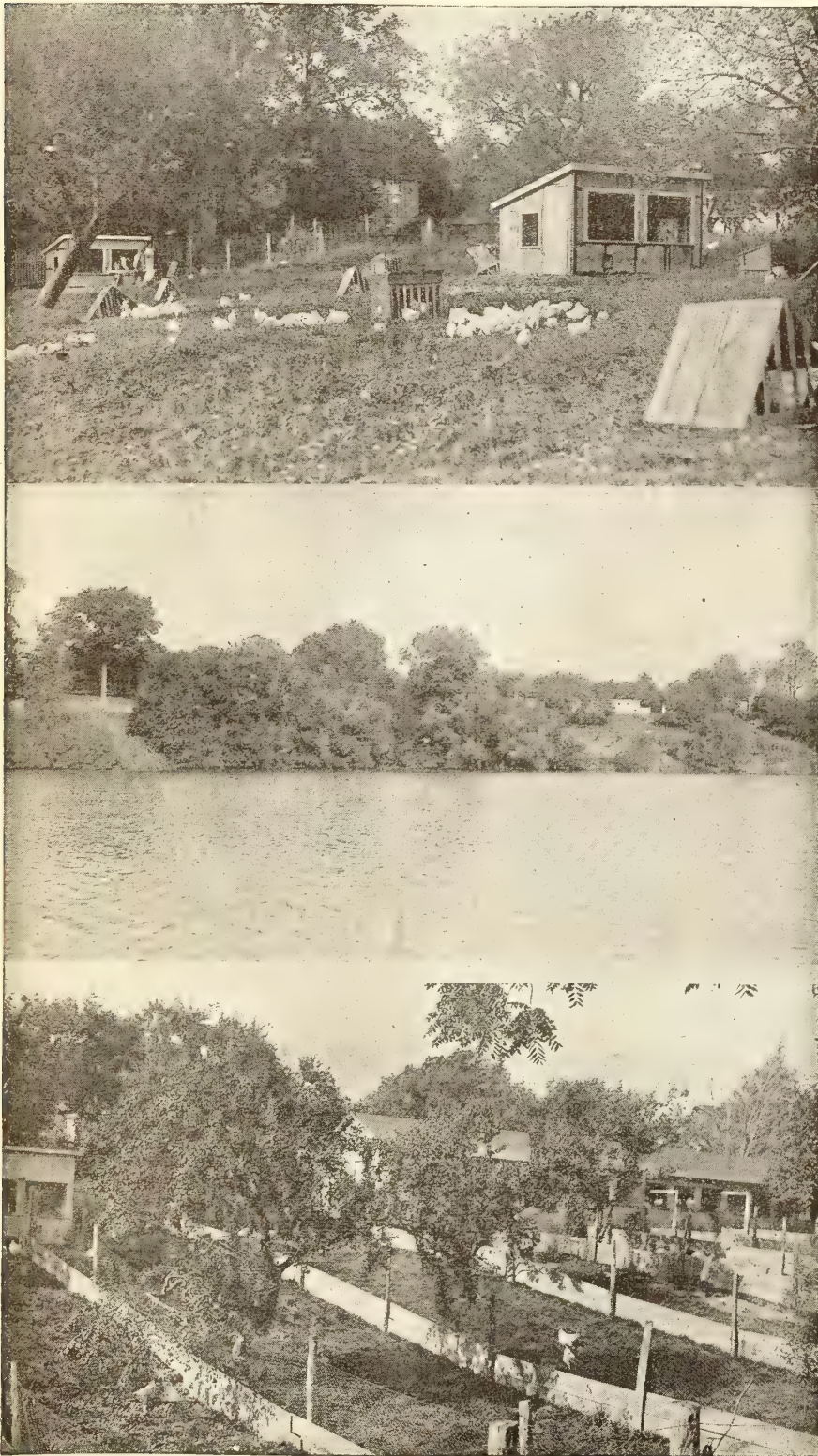
Why do the experimental stations study to add to the multiplicity of feeds, instead of endeavoring to simplify matters? It isn't "How intricate may we make the problem of feeding hens, but what may we eliminate to make the feeding less complex!" In fact, the farmer, the poultry keeper, the public, want to know, "The least variety of foods that may bring the greatest results!"

If dry mash can supplant wet mash, why go to the labor of moistening? If two or three ingredients may formulate the mash, why bother with twenty or thirty different articles? Here is an Englishman who must grind up a certain biscuit—to be weighed to a certain ounce—and fed a certain time, in a certain wet mash, with results "uncertain!" for he kills off pullets that won't lay, and his hens that do lay are no better than yours or mine, which are fed in the simplest manner we can think of.

Take the Egg Laying Contests, with a bill-of-fare to tickle the fancy of the most fastidious. With a pick of the choicest hens, handled in the most scientific manner! Does the entire flock of any one of the contests put our flocks to the blush? No! For we must get results, nearly as large as theirs, or run our poultry business close to no profits.

What is a 65 to 70 per cent egg yield in April? Normal! And to be expected when eggs retail for 22 cents a dozen. Do these contests show a 70 per cent rate in December? Never! Only a paltry 25 or 30. Just what you and I should get when eggs fetch 55 and 60 cents per dozen.

Is it the *ration* then that makes these contests so mediocre or do we handle our birds less scientifically and nature



The above views were taken on the Regal Poultry Farm of John S. Martin, breeder of White Wyandottes, Port Dover, Canada.

is kind to us? Does a pinch of salt in the mash add one more egg in the basket? Why use gluten feed? Is mid-dlings necessary when more bran may be added? Alfalfa is good for cows, they relish it. Why bulk up the hen's mash with it, when alone in a hopper the uninitiated pullets pass it by? Do you put corn meal in the mash? Why? To fatten your fowl? Probably you balance it by placing litter in the house to reduce their flesh thru exercise. Corn is an excellent food (if not abused). Why not simplify matters by serving it in the scratch grains.—either more or less!

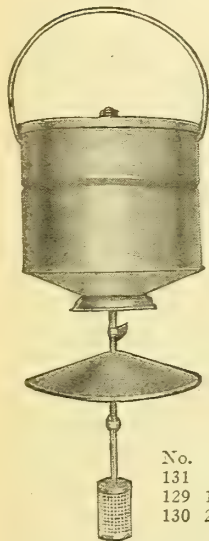
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And what are your scratch grains? The kind you may buy, already mixed, with as much per cent of unnecessary bulk as the profit you pay for? Or a choice of your own? And what may that variety be? The experimental stations advocate three: wheat, corn, oats! The majority are generous with their wheat, only liberal with their corn, and almost frugal with their oats. Why not reverse the order of things. If I had to drop any one of these three gains it would be wheat.

But then, "One man's meat is another man's poison!"—and in the gentle art of feeding hens, what I do with success, you might attempt with failure; or vice versa!

Corn is a great favorite among the farmers here. I use oats freely. A neighbor dropping in one day was amazed that I got eggs from feeding oats. He thought they stopped hens laying. Seeing my basket full of eggs, he went home and fed his flock oats. Suffice to say, that man has no use for my methods now. He knows oats stopped *his* hens laying! If we were on speaking terms today, I would advise him to begin with little chicks and feed cautiously for generations.

Why do the farmers generally have such poor returns from their hens during the winter months? Is it because they will not feed them scientifically? Perhaps, and perhaps not! The formulas from the agricultural colleges frighten them—but I believe if they fed them *humanely*, they would get eggs, provided the pullets were hatched early enough to mature before cold weather. By feeding "humanely" I mean, giving the birds what nature calls for.

A farmer living a mile from my poultry plant, requested me to look at his birds. He was getting no eggs, and he couldn't understand the reason! They were quartered in colony houses, open to the south. The floors were well littered. Boxes of bran stood in the corners and they had *all* the corn they could eat. "Why don't you let them out?" I asked. "Cause hens with wet feet won't lay!" he answered. "Do yours lay with dry feet?" I queried. He smiled wisely. "I often feed mine in a blizzard," I continued. "How much skim milk do they get?" "We sell all our milk!" "Do you give them beef scraps?" "Nope!" "My friend," I concluded, "let these birds get out there at the roots of the grass. Put a tenth portion of scraps in that bran, and when the eggs begin to come, increase the scraps to one in six!" "By gosh!" he grinned. "That's simple feeding!" I saw him the next week shoveling vigorously the snow from the front of his hen houses. The birds were about him eating the grass-roots eagerly. A month later I asked him how he fared. "Two eggs a day!" "Do you feed the scraps still?" "Don't give 'em none!" "Milk?" "Nope!" "Well, what can you expect then?" I laughed. "Don't expect nothin'!" he snapped back. "This scientific feeding is all rot. I give em more corn than they'll eat and darned if I pay out any more cash on the critters!" I left him. A bag of beef scraps stood between him and his grain bill.

Reader, it may be less that stands between you and your egg yield! Feed your birds humanely. A little judicious observation is better than a great scientific formula. Teach us the simple methods that give results. We have had enough of the intricate.

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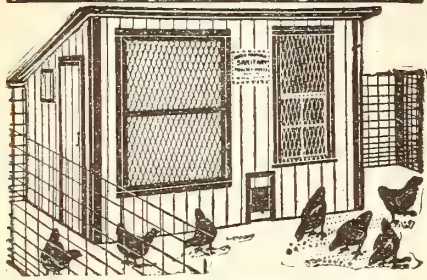
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POULTRY RAISING AS A BUSINESS AND ITS POSSIBILITIES.

SHEPARD STRONG.

THE poultry business is today commanding the interest and attention of thousands of people who are anxious to know whether or not it would be a profitable business for them to engage in.

They have first become interested in poultry thru learning of the great success certain people have had in the business; then upon investigation they learn also that others have met with flat failure—have lost their time—their capital invested, as well as having irretrievably lost some other good business or position which they had given up on embarking in the poultry business. The writer has personally investigated some of these so-called failures and has found them to be due almost without exception to the following causes: Lack of personal aptitude for the business, lack of experience, lack of capital, and last, but by no means least, lack of such a systematic plan of operation as would be necessary for success in any business.

It will not be necessary to touch in this brief article upon the first three of the causes mentioned as any one of them would be cause of disaster to any line of business.

To illustrate our meaning of systematic plan of operation, we will take the case of the average man who first embarks in the poultry business with the intention of establishing an egg farm. He buys or rents a small farm and starts with we will say 100 to 200 fowls. The best authorities tell us that the yearly profit per laying hen per year under favorable circumstances averages from 80 cents to \$1.50 per year per laying hen.

Does our beginner realize to what extent he will have to increase the amount of his stock to say nothing of the buildings, yards, etc., in which to keep them in order that he may put his enterprise on a basis that will yield him an ordinary living?

Or will we take another not uncommon case—that of the man without poultry experience who decides to embark in the poultry business and produce high-class exhibition specimens of some variety in which he has the most interest. He gives up the business in which he is engaged, purchases or rents a place for his poultry enterprise, buys from 25 to 100 of the very best specimens of the variety of his choice, with the idea of exhibiting them and their offspring, winning prizes on them, acquiring a reputation for having high-class specimens and selling stock and eggs that such good qualities command. What chance has this inexperienced man to win the necessary prizes against the learned exhibitor who knows just how to put his birds into first-class show condition?

The writer knows of many instances where the trained exhibitor has sold his first prize specimen at a show to an amateur, retaining his second prize specimen himself and at another show with in the same month the experienced exhibitor has won with his second prize bird over the beginner simply because of lack of experience in handling exhibition specimens. His road certainly will be full of pitfalls, as he must know

how to raise and keep his birds, how to exhibit them, and must attain a reputation for having high-class stock, at the same time making his living.

Would it not have been better for both of our beginners—the one desiring to establish himself in the market poultry business and the other in the fancy poultry business, to have made a modest start, at the same time continuing at their regular occupations until a regular apprenticeship in the poultry business and a stock of poultry gradually developed sufficient to warrant devoting their time exclusively to the poultry business.

The poultry business today offers a greater opportunity than ever before and offers promise of an assured future to those who will combine earnest effort with careful application of business principles. There is a rapid but steady increase in the demand and market for eggs and table poultry and the supply is growing less in proportion to the demand.

As for fancy poultry, the writer remembers when \$100 was considered a high price twenty years ago for a first prize winner at Madison Square Garden, while today \$500 to \$1,000 is by no means an unusual price paid for a first prize winner at that show. Twenty years ago \$3 per setting for eggs was the standard price for the best prize strains in this country; this price has been gradually increased and today the standard price of eggs for hatching from first-class stock in the leading varieties runs from \$10 to \$15 per setting.

Almost any city, business or professional man can well envy the career of our successful poultry men—and there are thousands of them all over the country. Take, for instance, the case of the retired manufacturer who started in the fancy poultry business but a few years ago and in one year did a cash business of over \$80,000. Then there is the Long Island grower of ducks who raises and ships over 60,000 ducks to New York each year. Then there is the man who started as a farmer boy in the poultry raising business with no capital, and who annually exhibits from two to three complete collections containing some 75 varieties of fancy poultry at state and county fairs, each collection winning in cash prizes from \$100 to \$400 at separate fairs held each week from early in August to late in October; then from November until March. His services as poultry judge are in active demand at from one to two poultry shows each week. In addition to this he sells thousands of dollars worth of fancy poultry annually. He has been president of the American Poultry Association, is president of his local bank, and holds numerous other important positions—all due to poultry. Then there is the man who was formerly a life insurance agent and who has by systematic effort developed a poultry business in one variety alone to such a degree that he annually does a cash business of over \$50,000.

The history of some of the above mentioned, as well as other examples of what can be attained in the poultry business, will possibly be of interest to our readers and we are expecting to write further of the history and development of some of the leading poultry enterprises of America in subsequent issues.

Womans Success With Poultry

Helen F. Woods, Editor
A Department for the Exchange of Helpful Poultry Experiences



SINGLE MATING FOR PARTRIDGE ROCKS.

By LUCY D. COLE, Sand Creek, Mich.

THE article in the March number of AMERICAN POULTRY JOURNAL on "The New Standard and Double Mating" has inspired the following in favor of the single mating for Partridge Rocks.

It would seem there could be no quicker or surer way of running out any variety of fowls than a close adherence to this system of double mating. It would also seem that a Standard which can only be attained by double mating must be essentially false. When an exhibition pen winning blue ribbons and cups is not a breeding pen and cannot be expected to produce good specimens of either sex, it must be a discouraging proposition to an amateur fancier to start in breeding such a variety.

In this system of double mating, a pen mated to produce exhibition males does not produce any females even approaching the Standard of Perfection and probably not a large proportion of males; and, likewise, a pullet mating while producing some Standard females will give to the breeder cockerels which are fit for market purposes only. There are two matings, fully one-half the progeny of which are culls and expected to be culls. A great many birds are thus produced by such a system that are virtually useless to the variety from the fancier's standpoint.

We have been breeding Partridge Rocks since before their admission to the Standard, and have never practiced double mating, nor had it previously been resorted to in our strain.

Last season we used in one of our low priced pens a male that was too dark for Standard color, but he had two ribbons to his credit. The mating we made would have been called good for producing pullets. We got some very nice females, one of which won first place at the State Fair and second at the Coliseum Show at Chicago. But from this mating we got no males which we wished to exhibit or use as breeders, and this one pullet was the only one which equaled those from a pen in which both parents were very near Standard. We have had pens which produced more good males than females and we concede that Partridge Rocks may be so mated by a double system to produce good females from one pen and good males from another. Our point is that by single mating a larger proportion of exhibition birds of both sexes can be produced by one pen than from two pens by double mating.

We select the male as near Standard as possible and mate him to just as even a bunch of Standard females as we can find. This last season the most of our winners were brothers and sisters. At the State Fair the first and second hens

were sisters of the first cock. At the Coliseum Show, the first and third cock were from the same pen. At the same show the first and second cockerels, and cockerel in first pen were brothers of the first and third pullet and pullet in first pen. Other winnings were made on stock from this same pen in the hands of our customers.

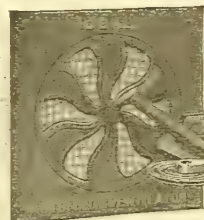
We regret that the new Standard of Perfection allows red in fluff of the Partridge Rock male, as it not only mars the beauty of the contrast of red and black, but detracts from his value as a breeder. We want at the head of our pens males free from shafting, as they will produce more show birds of both sexes than will one with shafting.

Our experience has led us to believe that color, markings and type are matters of heredity, but that foreign color, as white in plumage and purple barring in due to condition. So if one wishes to produce birds of finest quality, intelligent care in feeding and housing must be exercised. One of our customers wrote us, "What is the matter with my chicks? Half of their wings are white."

We replied, "Pull the white feathers, clean up the quarters, look out for lice and provide a good wholesome ration in plenty." This was early in the season. They followed our suggestion and by show time had some fine birds in splendid condition.

A particular point upon which I wish to take issue with the author of the above mentioned article is that a handsome appearance is incompatible with heavy egg production. Our experience has many times proved the contrary. One very fine hen, a winner several times in the show room, is at the present time one of our best layers in a flock of good layers. This year our first prize pullet at the Coliseum Show was afterward scored by a utility expert and pronounced a 220-egg type. We think it altogether probable that she will more than fulfill this prediction, as she rarely misses more than one day in six in presenting us with a nice large egg and is all the time gaining in weight, thus showing sufficient vigor to keep up the heavy laying.

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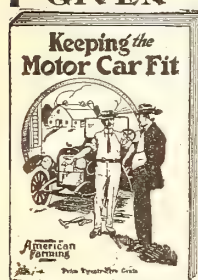
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like to see them around, and we are glad that it doesn't take a homely hen to fill the egg basket, but that it has been amply demonstrated that it is possible to breed for both pleasure and profit.

AVOID BOWEL TROUBLE IN BABY CHICKS.

By MRS. DON WILLIS, Miami, Okla.

AT THIS season of the year, we hear many inquiries in regard to hatching and rearing incubator chicks. One of the most common is "How can we avoid bowel trouble?"

It is my opinion that the greater percent of bowel trouble is caused by bad air in the incubator or in the nest. Other things may cause it, but if bad eggs and bad air are allowed in the incubator for any length of time, it invariably weakens the chicks in the shells and causes bowel trouble in the youngsters.

For many years I was troubled with this scourge, especially with incubator chicks. Not being willing to believe the cause to be artificial hatching, I gave it a great deal of thought and experimented under all sorts of conditions. I noted that we were always cautioned by the manufacturers to keep the incubator clean and not to neglect to fumigate each time before re-filling the machine and the recommendation that eggs be tested out several times during the hatch. I followed these directions carefully, except that I was unable to detect a dead germ at a sufficiently early date to prevent foul air in the egg chamber. I was sure that these eggs should be removed without delay if the hatch was to be satisfactory. I tried several kinds of testers for use in a dark room by lamp light. Knowing, that where there was life there was motion, I knew there must be some way to detect the dead germ by means of a magnifying lens which would immediately show up the lifeless germ. Since then I have been using a day-light egg tester with a strong magnifying lens and have had little or no trouble with sick chicks. Any one who has not tried it would be surprised at the difference in labor and profit that a careful testing of eggs during incubation makes.

I first test the eggs with the magnifying lens before putting them in the machine or under hens, that I may be sure there are none of the eggs with faulty shells or blood spots, and also that incubation has not already been started, as is sometimes the case in the spring and summer, especially if there are many broodies about. Altho I gather all eggs daily and keep carefully I have frequently found eggs in warm weather in which incubation had already started. If these were put in the machine, they would soon rot and fill the egg chamber with foul air. These same eggs, when viewed thru an ordinary tester, look clear and would not be suspected, as the germ is not visible without the use of the lens.

Overheating is another most common fault in artificial incubating. Too much heat will kill a great many chicks in the shell and all it does not kill are weakened. The embryo chick is no stronger than its weakest point, which is its stomach, and if the chick, while yet in the shell, has been alternately chilled and "cooked," it will almost surely succumb to stomach or bowel trouble early in its career.

Most cases of overheating incubator eggs is caused by placing the thermometer on a dead egg, which is naturally

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cold, thus creating the erroneous appearance of a lower temperature in the egg chamber. The blaze is then turned higher to raise the mercury, while even before it is raised the chamber may be overheated. I have many times been deceived this way until I learned to test out the infertile or cold eggs at an early date. Since adopting this method, I have greatly decreased chick mortality, as well as increasing hatch percentages.

HOW I PRODUCED AND PREPARED 1915 EXHIBITS.

This Article Was Submitted in Chiles & Co.'s Contest and Will Prove of Interest to Every Prospective Exhibitor.

By MRS. H. H. FULCHER, Pembroke, Ky.

TO BREED A SHOW BIRD in one year would be next to impossible unless the eggs, or a properly mated pen, were purchased from a breeder that was noted along that line.

the same hens and some of his daughters.

Since then I have added new blood to my lines as needed and today have a beautiful flock of Reds. But it is not a large flock, for each year I have culled until sometimes I would have only a few left.

The beginning of 1915 found me with a pen of splendid females, but no male bird suitable to mate with them, so in February I wrote to a well known Red breeder, who is also a licensed judge, telling him what I had on hand by describing both the hens and the pullets to the best of my ability—dwelling on the short comings rather than their good points so that he might be able to select a suitable bird for me.

He advised me to purchase a cock bird rather than a cockerel, stating that the cock bird would give far better results, especially as I wanted to show the progeny in the early fall shows. For the sum of ten dollars he sent me a vigorous ten and one-half pound cock bird, with very dark, rich red outer color and good under color, but with slight

termilk and bran as often as needed.

When a week old they were taken to a small colony house on range. This house had a removable floor which I kept covered with dry litter at all times, changing the litter every day if the weather was damp and the chicks had to be confined. Occasionally on good days, the floor was painted with a good disinfectant to kill off any vermin or disease germs that might be lurking about. The chicks had access at all times, after their removal to this house, to a dry mash composed chiefly of wheat bran with some low grade flour and blood meal in it and about ten per cent of cotton seed meal. Crushed bone, oyster shells, grit, charcoal and fresh water were also constantly before them. Three times daily they were fed on crushed wheat and corn until they were about the size of broilers.

When the old hen weaned them they were transferred to a larger house and taught to go up on roosts about two inches in diameter and about three feet from the floor. The house was open front type and the chicks were thus early



The Martling Hennery, Campine Farm, Ridgefield, N.J.

And even then, if it was the first experience with pure bred poultry, one would be fortunate indeed, (or shall I say unfortunate, as so many stop right here, perfectly satisfied), if a premium was awarded on the first exhibit made, as there are so many pitfalls from the shell to the show room.

Would a blue ribbon on our birds really amount to very much if we had to admit that another breeder bred and mated the birds for us? I should not consider a winning of this nature of any personal credit.

When a breeder chooses a parti-colored bird, as I have done, he has a great many more obstacles to overcome than the one who chooses a Black Langshan or any other solid colored bird. The satisfaction in accomplishing a difficult task is, however, accordingly greater.

In 1909, I purchased my first S. C. Rhode Island Red eggs from a man who claimed to have a rather noted strain of Reds. From these eggs I procured a few very good birds, and the following spring mated my best and cleanest cockerel to his sisters and the next year to

excess of black on wing markings, such as is called "pepper." This bird, he told me was line-bred by the most famous Red breeder in the east and was sure to reproduce himself in his progeny.

Two weeks after he arrived I began saving the eggs from the mating and on April twelfth took off my first flock of thirty-three beautiful Red (not yellow) little chicks. These were given to a faithful old biddy that had been dusted several times while sitting, and greased occasionally around the vent, so was free from lice and mites.

I next took a large box, covered the floor with clover leaves and placed it in our kitchen by a sunny window and here kept the chicks for a few days, or until they had learned to eat and drink and knew the call of their mother. When forty-eight hours old, they were supplied with sand to pick at and a little later wheat bran and buttermilk in self-feeders. They were also given a scant feed of hard boiled egg and bread crumbs, which they were given five times daily, keeping the sand and charcoal before them all the time, and water, but-

accustomed to fresh air quarters. The chicks grew like weeds and I raised thirty-two of them.

The Pennyroyal Fair at Hopkinsville was to be held in October, and as it

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was to be only sixteen miles away, and they were members of a regular poultry association and were to have licensed judge to pass upon their birds, I decided to make my first exhibit there.

Accordingly about the middle of September, I had a large building cleaned and littered with bright wheat straw, and placed several of my best cockerels and pullets there to give a little extra feed and care.

I supplied them with a mixture of grain, in the litter; the mixture consisting of oats, corn, wheat and sunflower seed. Once a day, they were fed a wet mash composed of bran, cornmeal, a little blood meal and about ten per cent cotton seed meal. Now and then a few table scraps or lean meat cut up, was added to the mash. They seemed to relish the mash very much and it helped to plump up their bodies. Previous to this the chicks had been kept growing, but were not putting on much flesh.

Nearly every day as I went to feed them I carried my Standard of Perfection with me and examined first one and then another, comparing them to the illustrations of Reds in the Standard. Occasionally I would find one not coming up to my expectations and discard it from the flock. I also carried a piece of silk to rub down the plumage in encouragement of that lustre, so much to be desired in show specimens.

This daily handling made them very gentle and helped greatly in giving them a better appearance in the show room. Two days before the show opened, I washed their combs, beaks, wattles, feet and shanks in warm water and castile soap, using a tooth pick to remove any accumulation from beneath the scale on feet and legs. After drying, I rubbed a little sweet oil on all parts so treated, being careful not to get it on the feathers. The oil has a tendency to keep the comb and wattles soft and red, and the shanks yellow and bright.

NOW FOR THE SHOW.

My old birds were in the moult so I did not try to show any of them and it did not occur to me to show a young pen so I entered only in the pullet and cockerel classes. Imagine my surprise and delight when I found that I had received second pullet and second and third cockerel. As to the class of birds in which mine were entered, I will say that a pullet from a sitting of eggs costing \$25.00 won first prize and Chiles & Company of Mt. Sterling, Ky., got third.

Two weeks later I shipped my birds to Paducah, Ky., and received first on pullet, first on cockerel and first on pen. My first pullet at Paducah was not in the Hopkinsville exhibit, but after talking with the judge there, and taking down all notes that I could, I was better enabled to pick a winner.

Without the Standard of Perfection (regardless of what some of the old breeders say about it) I never could have achieved the little success I have in breeding S. C. Rhode Island Reds. My greatest mistake was in not subscribing for some of the good poultry journals earlier, and the judge at the show pointed out this mistake. I immediately got busy and am now receiving five monthly poultry papers—the very best of which is the AMERICAN POULTRY JOURNAL.

WHY I BREED BUTTERCUPS.

By E. H. WILLIAMS.

LURED by love of the beautiful in birds accounts for how I became interested in Buttercups. Always a fancier seeking the beautiful in form and feather, I have found great pleasure and recreation in breeding poultry. I have tried out and experimented with various breeds, and studied nearly every new one that has been a candidate for public favor, examining its credentials for recognition, to know if the new candidate can deliver the goods in the egg basket. Any breed lacking in this quality will be rejected and relegated to the rear. A bird excelling in this supreme quality will in time be found scratching in your yard.

I was first attracted to Buttercups by seeing them in a big show. In comparison with thousands of other birds I observed their neat, trim forms, golden and buff mottled with black plumage, willow green legs and red cup combs. The combination gave them a pleasing, lusty look that excited my curiosity to know something more about them. I learned of several breeders with small flocks and visited them to see the birds in their home clothes. They presented just as fine appearance as when on dress parade at the show, but this was, I found to be, a secondary quality with Buttercups according to all testimony, when their ability and disposition to produce eggs was shown up by well kept records as convincing proof. It was about this time I became satisfied of their egg producing disposition, concluding there is a great future for them. I soon bought the very best obtainable in birds and eggs from the most reliable sources and commenced breeding. In my experience they have come up to all that is claimed for them, proving steady and persistent layers of big white eggs. They are workers and good feeders, tame and gentle, but nervy and quick, as every thrifty bird should be.

I am convinced the Buttercup has the most attractive, most sought for qualities in a fowl—the combined qualities of beauty, the recognition of which is giving them a wave of popularity that will continue for years to come, creating a steadily increasing demand for good stock and superior birds, insuring highest prices to those breeders who by judicious mating can produce the finest specimens.

This is a feature calling for the fancier's skill, the most interesting and fascinating in the fancier's art. It is admitted there is considerable variation of feather and type in different strains which fact makes the field the larger to work in and the opportunity great to all in selecting and building up their flocks toward the ideal of the adopted Standard, the main points of which are pretty well established.

The future is to tell to what higher state of beauty and usefulness the Buttercup may be brought by the united and concerted action of all the breeders with the purpose, if possible to not alone sustain, but gradually improve the bird's every fine quality, keeping in the spirit, with all honesty and truth, to praise the Buttercup, the finest bird that crows, to greet the first rays of the morning sun.

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SEEN AND HEARD IN THE MID-WEST.

By SHEPARD STRONG, Berea, Ohio.

The fanciers of Cleveland and vicinity are hoping for a record-breaking attendance at the American Poultry Association convention in August. They are hard at work preparing their schedule of entertainment, the details of which will soon be ready for announcement.

Be sure and commence making plans to show at one or more of the fall fairs. It is best to keep all light colored male birds in shady runs in order to have them in the best show condition. Also, early this month, be sure and pluck all dirty and broken feathers of all males and females that you are contemplating showing; however, this is not recommended in the case of black fowls, as very frequently feathers plucked in this way are replaced by gray or broken feathers.

We believe, that the matter of the *elimination of the necessity for double matings* should be thoroly discussed and threshed out at the coming convention. This question is of vital importance as, under present conditions, there is in effect a serious handicap to many varieties that are otherwise most useful. Fanciers of several parti-colored varieties have already overcome the difficulties that were formerly thought insurmountable and now produce exhibition specimens of both sexes from the same mating. This has been brought about by scientific line breeding. I am confident that the same results can be accomplished with all varieties. Nature originally created our fowls with the males of brilliant hue and the females sombre in appearance. Within the last century, man has been making the female fowl more brilliant in appearance, but has been doing this largely thru the system of double mating. By intelligent line breeding, it is surely possible to bring about this result by single mating. Let us hear from breeders as to whether they deem a few modifications in the Standard in some one or two instances (there surely cannot be more than this number) as necessary to bring this about. The double mating system as practiced with its consequence of 50 per cent of all birds produced absolutely unfit for exhibition purpose is all wrong and there should be a remedy for it. Let us give this matter the earnest attention at Cleveland that it deserves.

H. C. Sheppard, famous Ancona breeder, is noted for maintaining the utmost efficiency in all things pertaining to his farm. However, it was news to the writer, at least, that he maintains and has drilled a well-equipped fire brigade composed of his staff of assistants. Recently, the alarm of fire was received from one of the neighbors and this band started gallantly forth under the capable leadership of Mr. H. C. himself. However, there was no opportunity for a demonstration of its ability as, by the time it reached the scene of the flames, the fire was practically extinguished, as the barn which was on fire was practically burned to the ground.

The list of judges who are to officiate at this year's New York State Fair is

indeed a distinguished one and this, coupled with the increased classification and scale of prizes should bring forth an exhibit that is truly mammoth and which should be even greater than last year's showing, which broke all previous records. Any one who has experienced the courtesy and fair-dealing of Superintendent Manning, either as an exhibitor or visitor, is sure to leave no stone unturned to bring it about so that he can be there again this year.

We were much shocked and grieved to learn of the recent death of George Ewald. Poultry and pigeon fanciers everywhere have lost a valued friend indeed and one that cannot well be replaced.

The Ohio State Fair has adopted for its slogan, "It's great—let's go." W. H. Kinnan, well known show manager, has been placed in charge of this classic function and poultrymen can feel assured that under his guidance their interests will have the best sort of consideration. We look for a great poultry show there this year.

It has been advocated that the large

shows should be judged by comparison and the smaller ones by the score card. If this system were adopted, score card shows would be stamped as small shows and winnings at such would consequently be of little value from the sale or advertising standpoint. Why would it not be a happy compromise of this question to judge all shows by comparison and have arrangements made so that any exhibitor could have his birds scored if he so desired upon the payment of a nominal extra fee? It's worth thinking about.

It is to be hoped that secretaries of shows to be held the coming winter will try and cover more thoroly all the different varieties when making up their schedule of regular and special prizes than has been the case in some instances of late years. There has been a tendency to cater almost entirely to a few of the more popular breeds, which makes such shows top-heavy in these breeds, with but a scattering exhibit of the balance. In order to make a show attractive to the public, who go a long way in paying the bills, it is necessary that a show be well-balanced with a good showing of the different varieties of land and water fowls.

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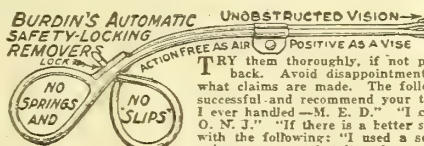
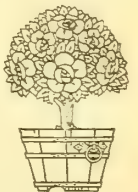
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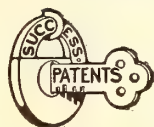
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BUTTERCUPS A DESIRABLE BREED FOR THE BEGINNER.

By MRS. HATTIE D. REED,
Marcellus, N. Y.

IN RESPONSE to a request from the AMERICAN POULTRY JOURNAL for an article founded on facts about Sicilian Buttercups, I chose the above subject not primarily with the idea of airing my personal history, altho it becomes necessary to tell something of my own work to give emphasis to the points I wish to make, as I believe it is generally admitted that the only facts we know are what we learn by experience.

I have been breeding poultry just three years and do not claim to be all-wise, yet I have met with the customary "hard knocks" that are essential to experience and I can readily understand how easy it is to get discouraged and give up for those whose start in poultry has been under less felicitous circumstances. When objects of discouragement got in my pathway, I shut my teeth firmly together and resolved to use everything, good fortune or failure, as a stepping stone to success.

I was brought up on a farm, but had never looked at chickens, except to cook and eat them, and I scarcely knew by name one breed from another. When sickness overtook me and the physician recommended outdoor diversion, the clucking hen and her brood of fourteen chicks provided an interest.

They were a ring-streaked and speckled lot—no two alike—but they were as attractive to me as a pure breed, for I knew no difference, and I found great delight in studying their proclivities and watching their development.

With returning strength, I found diversion the next year in growing about one hundred chicks of the same multi-colored variety, and was as proud of my achievement as a full-fledged fancier, when he has made a flattering winning. With ever increasing interest, harmony of coloring in flocks of hens, as displayed where but one breed was kept, came in for a share of my consideration and I decided that if growing chickens were worth while, it was worth growing something beside mongrels. The points of advantage in different breeds were inquired into, with an idea of choosing one best suited to my purposes. I required financial returns as well as a pleasing interest.

A visit to the Poultry Department of the State Fair brought me in touch with Sicilian Buttercups and it seemed best to investigate their claims a little further.

Correspondence with some of the leading breeders brought out the following facts: Buttercups lay large white eggs and are making year egg records equal to the Leghorn for commercial purposes. They are heavier than Leghorns, thus combining the meat and egg qualities, and the meat has a delicious gamey flavor. They are non-sitters, and require less food for their sustenance than any other heavy laying fowl. Their beauty of appearance and unique cup-shaped combs attract attention. They are easily confined and love to be petted.

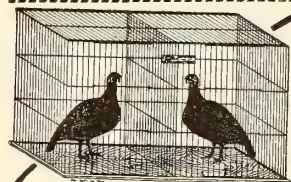
They are an original breed, not a combination of several breeds, their history extending back several centuries, being the domestic fowl among the peasants of Sicily. There are said to be pictures in Italy, bearing date about 1400, which portray the Buttercups as originally found in Sicily.

With this array of evidence in their favor, Buttercups became my choice, and for my foundation stock I bought one of the best pens to be found in the country. This pen was so mated that it produced fine exhibition birds in both sexes and as a consequence I entered the show room and got my first experience there. It is not my purpose to go into further detail in regard to my first year's work, except to say that with no equipment at hand, everything to buy, incubators, hovers, colony houses, fencing, etc., I sold stock and eggs enough to pay all expenses, which amounted to about six hundred dollars the first year, and I kept from the chickens I raised enough of the best to mate up several breeding pens for my second season. Now the question arises in my mind, "Could I have done this with any other breed than Buttercups?" or "in starting with anything but the best to be found?"

I believe the answer is found in the fact that Buttercups command very high prices, both for stock and eggs, because the demand is much greater than the supply. There is probably no breed before the public today that has come into prominence and grown in popularity as rapidly as the Sicilian Buttercup. There is no man in particular to boom them, yet they seem to be booming themselves by virtue of their many desirable qualities.

Once breed Buttercups, and one becomes an enthusiast.

Tho Buttercup breeders number up in the thousands, until they become so numerous that one can buy eggs for hatching from some of the neighbors in every section of the country, the price



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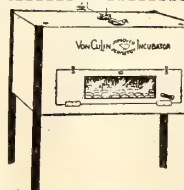


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is not going to be very low. Such eggs sell now anywhere from 5 cents to \$3.00 a piece. I myself having sold several eggs at \$2.00 each this season, and felt that I was giving good value for the money. There are many discouraging features for a beginner with poultry, sicknesses and ailments in the chicks or hens, eggs that don't hatch because of faulty methods of incubation, lice and mites that are so hard to contend with—all so perplexing to the ignorant and uninitiated, unless one is able to turn good money and see a clear way ahead to keep up courage, while gaining experience, one is tempted to give up the battle and failure ensues.

The experienced poultryman expects these things and is prepared to meet the set-backs—not so with the beginner. The chicken business wears the rosy hue of its cloud in plain sight to tempt the

novice and the cloud is to be discovered after getting away from the starting point. Perhaps a larger proportion of Buttercup breeders are women than with most any other breed. They have found in the Buttercup sufficient merit to command fancy prices, beside paying their way generously in eggs. It costs no more to raise fowls that will sell for \$1.00 per pound than those that bring 20 cents and by being able to secure large returns in the first year of one's work, the usual discouragements of starting are overbalanced.

With Buttercups, as with any breed, it is most desirable to start with the best stock one can get. If the beginner has a desire to apply thought and study, in addition to hard work, the field is open along the pathway of the real fancier, to improve the markings and show points and this means real study, which is most

fascinating. Within the past few years, Buttercups in the hands of a few expert breeders have attained a uniformity of coloring, type and comb, hitherto unknown, and they are fast approaching a satisfactory standard, still there remains much to do to establish blood-lines that are self-perpetuating, and this would be a delightful field of study for the beginner and bring revenue in full proportion to success.

If any one who reads this has a desire to enter the realms of poultrydom and hesitates for lack of encouragement and a definite plan, and if a more detailed account of the problems I met and overcome will aid in any way, I should be very glad to communicate with them personally. I have been helped and encouraged by experienced poultrymen on every side and I believe in passing good deeds along.



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SPANGLED WYANDOTTES

BREED

CHARACTERISTICS.

By L. COOK.

I HAVE received many questions regarding the characteristics of Spangled Wyandottes as a breed.

It is impossible to answer so many questions fully by letter. With the editor's consent I will answer the most important ones thru the Journal.

How soon will the breed be admitted to the Standard? This is an important question.

The rules governing the admission of new breeds to the Standard of Perfection requires exhibiting them three times at the annual meeting of the American Poultry Association. I sent a few of my Spangled Wyandottes to the Panama-Pacific Exposition when the association met last year in order to make it possible to have them admitted two years hence. I fully believe the required 50 per cent will more than breed true to the breed characteristics in two more years of breeding.

Another question is what are the hardest defects of the breed to eradicate? I have found blue legs and white ear lobes, and especially blue legs the hardest defect of any. These are beginning to come all right now. Some of the problems that confront us at present is to get good spangling on good Wyandotte shape. I have some with as good spangling as can be found on Hamburgs, but most of these have a tendency toward the Hamburg makeup. The tendency for birds with good Wyandotte shape is too much black in tail feathers, especially of the males. It will probably take several years to eradicate this. But it is coming and we will get the desired combination later.

We must increase size some. The flock should weigh about one pound heavier as an average in order to have them the standard size. This can be done by giving proper care to the growing chicks. The breed is larger than several or more years ago.

What are some of the breed's characteristics? is another question.

I have already written fully regarding good egg production, rapid growth, health and vigor being some of their characteristics. Still there are others just as important. One of the most desirable from a fancier's standpoint being this: The growing cockerels do not "nag" the hens, showing mating instinct until they are matured and rounded out. This characteristic was inherited from that splendid breed, the White Wyandotte. And this is one secret of the White Wyandotte's great popularity. This inherited good quality makes it possible to allow the entire flock to range until the young males are matured. The cockerels do better, grow faster and have better carriage than if they were yarded. Every fancier with experience understands the great advantage this would be on maintaining a breed for shipment.

But unlike the Whites the males, after maturity are strong in virility. The eggs have about as high per cent of fertility as the Hamburgs.

Another score in their favor and one transmitted by the White Wyandottes, is rapidity of the cockerel's growth. When they have reached a certain stage in their development they grow with

such amazing rapidity and "round out" so quickly as to seemingly rival Jonah's gourd which "grew up in a night." They come up from range in the evening at this time with "crops" resembling Pouter Pigeons.

Another peculiarity: The young cockerels never fight. They sometimes spar a little, but I have as yet to find a pitched battle. The matured males will often fight viciously if strange cocks are brought together.

There is an error regarding the size of Spangled Wyandotte eggs. Spangled Wyandottes lay a medium size egg similar to other Wyandottes, but do not average quite so dark in color. The eggs are usually of good shape.

Prominent Poultryman Loses By Fire.

Joseph L. Blair, of Batavia, Ill., one of the directors of the well known Batavia Poultry Association, had the misfortune to sustain a \$500 loss by fire a few weeks ago, when his brooder house, brooder, incubator and one hundred fancy chicks were consumed. The flames were raging fiercely when discovered by school children about 4 P. M. The Batavia fire fighters were called and soon had the fire under control, saving the other buildings and the breeding stock. The loss was partially covered by insurance.

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WHY I BREED BLACK LANGSHANS.

Unsurpassed for Table Purposes—
Being an Established Breed, the
Type is Well Fixed, the Offspring
Presenting a Pleasing Uniformity—
Combine Great Utility with Rare
Beauty—A Contest Article.

By M. R. BUZZELL, Lakeport, N. H.

THE desirable qualities for which fowls are valued have been given as "good size with superior table qualities, good layers of extra large white eggs, a non-sitter and a fowl that is beautiful and attractive, yet hardy and vigorous."

We take pleasure in presenting the Black Langshan as a breed of fowl possessing most of the desirable qualities mentioned. In place of any which may be lacking, other desirable qualities are possessed by the Black Langshan which the average poultry keeper the country over would consider of even greater value.

They are not non-sitters and they do not lay a white egg, but the Black Langshans, with their beautiful, large dark-brown eggs—a large per cent of them laid during the cold season of highest prices—look pretty good to breeders in many parts of the country where white

eggs, even the large ones go hard, when offered for sale in competition with large dark brown eggs.

That they are one of the sitting breeds seems not to be a disadvantage to them. In fact, in numerous laying contests, the sitting breeds have easily been able to hold their own with the non-sitters and in many instances to outlay them. Many breeders find it of much value to have plenty of good sitters when needed and prefer them to artificial means of hatching and brooding. If not wanted for this purpose they are easily persuaded to forget their desire to set and are soon laying again after a brief rest.

It is doubtful if there is a breed of poultry in existence that can surpass the Langshan when prepared for the table.

The comb of the female, which, if frosted, might injure them as layers, is small enough to prevent serious damage from this source.

Being an old established breed, the type is well fixed, insuring a flock of youngsters of a very pleasing uniformity.

They are docile, easily confined and always clean looking, thus making them equally well adapted for farm or village, also on account of their color they are not an easy mark for hawks.

Finally as a show bird—and if you breed them you will surely want to exhibit them—they have many points of

superiority. For one thing they do not have to be washed. Their bright red faces, wattles and combs form a very beautiful and striking contrast to the brilliancy of their black plumage, which together with their large size and majestic appearance, make them an object of attention and admiration by the general public as well as the fancier.

After all, it is truly a wonder why so many people are breeding the varieties they are—varieties lacking half the good qualities mentioned above—when they might be proud owners of a flock combining great utility value and rare beauty—the good old Black Langshan!

We all have dreams of future accomplishment. What are you doing to make your dreams come true? There is a saying to the effect that "Inspiration without perspiration makes no progress," and unlike many sayings, it can be relied upon as truth. Nothing of worth can be accomplished without labor. When you have a good idea, seize it, and burn the midnight oil if necessary in carrying it into execution. Success takes no note of the lazy man.

Every time we give way to weak willed explosions of temper or make unreasonable demands upon our associates or friends, we prove the claims of our enemies concerning our littleness of character and unreliability of disposition.

What Are the Earliest Layers?

THIS AFFIDAVIT TELLS YOU

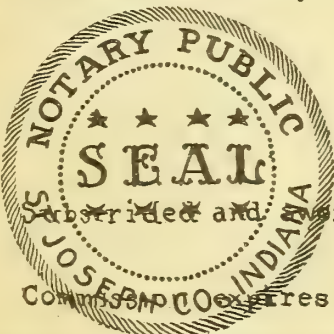
State of Indiana ss.
St. Joseph County

South Bend, Ind., May, 1, 1916

The undersigned hereby certify to the following facts:

On or about November 7, 1915, Single Comb White Leghorn and Silver Campine baby chicks were hatched on our plant. This stock received nothing in the way of feed and care other than the food and attention ordinarily given our other baby chicks.

The first pullet egg was laid April 1, 1916. On April 4th, there were six pullet eggs. That is, out of approximately ten or twelve pullets hatched, half were laying before they were five months old, although they were incubated in November, and raised during the winter months of December, January and February.



Frank E. Hering
Proprietor

J. H. Wetmore
Manager.

Subscribed and sworn to before me, this 2d day of May, 1916

Commission Expires January, 14, 1920.

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Eggs from winners HALF PRICE balance of season. A few choice breeders for sale at reasonable prices.
LEO A. LEE, 5626 Wilson Ave., CHICAGO, ILL.

OUT OF THE EAST.

By P. K. WHITE.

My hat is off to the chap who once said, "Ohio has the best and the poorest roads of any state in the Union."

Traveling by auto, Mr. Stahmer and I left Chicago, June 2nd; our first stop was South Bend, where we visited Frank E. Hering—We found him donned in overalls, working among his birds as hard as one of his men. Our next stop was at Fort Wayne, and I regret to state that we found W. D. Holterman a very sick man, in fact so ill that it will be weeks before he will be able to be up and around. Chas. G. Pape was the busiest man in town, promoting the home coming week.

At Columbus, where we arrived on Sunday, we found Mr. Shields (of Rawnsley-Shields Poultry Farm) out in the strawberry patch, and they were real strawberries, there wasn't a one but what was almost as large as a half dollar. We had the pleasure of meeting all the Shields family and enjoying dinner with them. In the evening we dined with the Rawnsley family and met Lem's brother and his wife, two very popular Canadian poultry people. Up to this time our trip had been uneventful, that is, with the exception of having several punctures and going to the hotel at Bellefontaine, Ohio, asking for a room with bath, only to be told that they had no private baths, but would put us in a room next to the public bath. It was late when we arrived, so we went to one of those "crippled lunch rooms," the places that have chairs with four legs and one arm, from there we went to the jitney show, to look for gum under the seats. It was eleven when we returned to the hotel and the clerk asked me if I knew what day it was. I said, "Saturday; why do you ask?" "Nothing," he replied, "only I am afraid you will find all the hot water used."

Our next stop was Huntington, West Va., where we were compelled to stay for several days on account of the heavy rains. Leaving there, we crawled and swam to Wheeling, going up the river road on the Ohio side. It was a trip we will never forget, for we were first in mud up to the hubs, then crossing streams with the water up to the running boards. They can talk about autos, but we drove places that even a "Peace Boat" (Ford) had never been.

At Washington, Pa., we just finished taking a few pictures at Thornycroft Farm when, to keep us from becoming lonesome, it started to rain again. We had heard so much about Oak Grove Farm we made up our minds to brave the storm and become acquainted with it. Mr. Ewing was out of town, but if he is as dyed in the wool fancier as his wife, watch their winnings at the big shows this winter. We are now at Pittsburg, and Czar Baldwin and Daddy Rankin are doing all in their power to acquaint us with the local fanciers.

DOES THE SHOE FIT?

Just why is it, that breeders do not realize a greater percentage of sales from their inquiries? This, I believe, is as hard to answer as the time-worn question, "How old is Ann?"

A very careful study of same has lead me to believe that in a great majority of cases failure to turn an inquiry into a sale is the fault of the breeder.

The AMERICAN POULTRY JOURNAL is like all other poultry journals, in one respect at least. We, nor any other journal, can make your sales for you. The journal is simply the medium by which we introduce the reader to the advertiser, the actual sale must be made by "you," the advertiser. Our army of readers have faith in our publication; this faith is extended to you, by virtue of your being one of its advertisers. When we introduce you to the reader and they in turn write for your catalog,

Rudy's Perfection White Wyandottes

My strain is noted for its egg production and exhibition qualities. My customers all over the country laud my square deal business methods. I guarantee to give you extra good value for every dollar you pay me and if you are in the market for line bred birds I will be glad to tell you just what I have for sale.

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Before buying R. I. Red eggs for hatching, write for our mating list.

Orchard Farm, Noroton Heights, Conn.



45 Varieties Land and Water Fowls

Send for free illustrated catalogue, which tells you exactly what you should know. Stock and eggs at all times. Mention A. P. J.

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Strong Day-Old Chicks, June 9c; July 8½c

LAYBILT "Made in America" LEGHORNS

Large; great layers; pure white. Hatching eggs \$3.50 per 100. Oks., hens, 8-12 wks. old ckris. and eggs at summer bargains. Everfresh Egg Farm, Box A, Ionia, Mich.

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Eggs now one-half price; also the females in my four grand pens Coliseum winners. For prices and circular write

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C. A. KEEFER - MUSKEGON, MICH.

S. C. White Leghorns

won 2nd cockerel, 3rd and 4th pullets at Indianapolis; 1st and 4th cockerels, 1st and 3rd pullets, at Fort Wayne, Ind. Mating list. No stock for sale.

JOSEPH MAZELIN - Berne, Ind.

S. C. B. Minorcas

that have size and quality. Winning three successive years at Quincy show. Eggs for hatching; write for prices. Grover Degee, 814 Jefferson St. Quincy, Ill.

R. I. Reds

that will please you as well as the judges. My free circular tells all about them.

EGGS FOR HATCHING P. H. Sprague Maywood, Ill.

Andrews' Bl'k Orpingtons

Winners at Brooklyn and the Grand Central Palace, New York. I can furnish you with birds that win. Order eggs for hatching early. Prices reasonable. Silas H. Andrews, 208 2d St., Mineola, N. Y.

FOREST HILL POULTRY YARDS Quality Wh. Plym. Rocks

The kind that pay. Stock for sale at all times.
ALBERT G. SPAHR Box 1240 XENIA, OHIO

prices, etc., we two have done our part.

How about you, as an advertiser, are you doing your part? An inquiry, if received in the morning, should be answered in the afternoon; in no case should it be held more than twenty hours.

I can recall several times in my life (and I bet you can) that I have walked into a store to buy something and stood at a counter waiting to have a clerk serve me, while two or three of them stood around talking efficiency or something else. What did I do? Just what thousands of others have done, walked out and spent my money where I would get service.

A man or women in business must give service and satisfaction. Both of these make friends. But friends can-

PULLETS

S. C. W. Leghorns: Barred Rocks

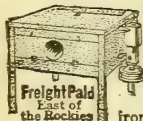
Early hatched, ready for delivery beginning Aug. 1st, at four and five months of age. Well grown on range, at very reasonable prices. Booklet on request.

THE MACKEY FARMS, GILBOA, N. Y.

RABBITS



Tells all you want to know about Rabbits. Our book: "The Rabbit: How to Select, Breed and Manage the Rabbit and Belgian Hare for Pleasure or Profit," by breeders of long experience with rabbits. Sixth edition, nicely illustrated, enlarged and much improved. Price 25 cents. Sample copy of the AMERICAN POULTRY containing Belgian Hare Department Poultry Advocate Dept. 252, Syracuse, N. Y.



140 EGG INCUBATOR CHICK BROODER

Both are made of Both \$10
Calif. Redwood. Incubator is covered with asbestos and galvanized iron; has triple walls, copper tank, nursery, egg tester, thermometer, ready to use. 30 DAYS' TRIAL—money back if not O. K. Write for FREE Catalog Now.

IRONCLAD INCUBATOR CO., Dept. 49 Racine, Wis. (2)

Natural Hen Incubator \$3



No freight to pay. Actual hen controls everything. No lamp, no costly mistakes. Best hatcher in the world. Over 750,000 in use.

J. M. Fay, Ill., writes: "It is the best thing I ever saw for hatching chicks."
Another: "I got 507 chicks from 540 untested eggs." Thousands of other testimonials. Agents Wanted. To reach the million mark in 1916 we will send you a Special Introductory Offer with our Free Catalog.

Natural Hen Incubator Co., Sta. H, Dept. 4, Los Angeles, Cal.

MAKE HENS LAY

By feeding raw bone. Its egg-producing value is four times that of grain. Eggs more fertile, chicks more vigorous, broilers earlier, fowls heavier, profits larger.

MANN'S LATEST MODEL Bone Cutter

Cuts all bone with adhering meat and gristle. Never clogs. 10 Days' Free Trial. No money in advance.

Send Today for Free Book.

F. W. Mann Co., Box 56, Milford, Mass.



Sex Control SPOK AHNE STRAIN

Black Langshans, 15 eggs \$25. Eight chicks or replace free. Six pullets or exchange even. Pullets give you 70% females, or we replace free. Your money's worth—they make good or we do.

HERB. E. SHARP LAN SHAN FARMS
R. F. D. No. 3, SPOKANE, WASH.

not be made from people who must wait on your time and pleasure for an answer to their inquiry. The reader knows that there are other people who will give them a prompt answer and the sooner you realize it, that much quicker will your business pay dividends.

Take pains with your inquiries, answer them promptly, tell your story in as few words as possible, but tell it straight from the shoulder—tell about how good your birds are, not how bad the other chap's are; use a neat letter head and, above all means, use a typewriter. You may be the best penman in the world, but a typewriter letter looks better and a thousand per cent more business like. Do not say that you cannot use a typewriter, because they are very simple and you can learn in less than a week; furthermore, you can buy them very cheap and on payments.

I do not say that these things will turn all inquiries into orders, but I do contend that they mean more sales.

Samuel W. Bradley, of Lime Rock, Conn., one of the real old school of fanciers, is coming back strong with White Rocks.

Note that "Smiling Dick" Keyler is now superintendent of Wilburtha Farms. Congratulations, old chap, everyone that knows you is sure that you will make good. This new combination of Fisk, Chapman and Keyler are going to be heard from at the winter shows.

Here is a little proof of the confidence that our readers have in AMERICAN POULTRY JOURNAL and its advertisers. One of our subscribers living in South America recently sent Foxhurst Farm a money order for \$250.00, asking that they pick him out two good pens, for the amount enclosed. There had been no previous correspondence in any way, he was "rightfully sure" that they would send him full value for his money, because he had read their ad in AMERICAN POULTRY JOURNAL.

"Speed merchants, fanciers and bachelors," that is the triple title that belongs to two well known Bostonians. J. W. Bowman is in the automobile business, owner of Rock Ledge Farm, and is single. The other is H. J. W. Fay, who is in the submarine business, owner of White Wyandotte Poultry Farm, and likewise single.

Note that W. F. Hayward of Westboro, Mass., has been appointed New England secretary of White Rock Club.

One of the finest things in the universe is Harmony. Nature is never out of tune. Mankind sometimes, however, thru an upset condition of the liver or a case of exaggerated ego, kicks up a fracas and instigates discord in his home environment, business association, or wherever he happens to be. Man is the finest handiwork of Nature. A man out of tune is an anomaly of Nature. Cut out useless discords in life's relationships and the harmonies of life will everywhere become apparent.

Many of us go to great expense and marked inconvenience in hiding our real selves behind an easily penetrable mask. It would save time and money, could we realize that every individual voice and unconsciously portrays the real self supposedly hidden beneath the mask.

Send for It!

Shoemaker's Poultry Book and Almanac for 1916.



The book has over 200 pages with many colored plates of fowls true to life. It tells all about chickens, their prices, their care, diseases and remedies.

All about Incubators, their prices and operation. All about poultry houses and how to build them. It's an encyclopedia of chickendom. You need it. Only 15 cents. Your money back if not satisfied.

Have Just Issued a Reduced Price Egg Circular

for the summer that will interest anyone who wants the best at lowest possible prices. Send for one; it's free for the asking. Remember that thousands of the best winter layers and breeders are hatched every year during the summer months.

C. C. SHOEMAKER
Box 605 Freeport, Illinois



RAISE the best broilers and roasters in shortest possible time at least expense, for your table or the market. It is a simple matter to put one-third increased weight on birds in twelve days with the ordinary feed by mixing

BLATCHFORD'S MILK MASH

Ask us for leaflet and nearest dealer

Blatchford Calf Meal Factory
Waukegan, Illinois

POULTRY SECRETS
Valuable 130-page Data-Book
Facts on lowering death-rate, getting 100 per cent hatches, highest prices, etc.
Illustrates improved incubators. Write today.
MODEL INCUBATOR CO., 2 Henry St., Buffalo, N. Y.
Also 39 Barclay St., New York City

Bales' R. C. BLACK MINORCAS

Chicago and Springfield winners.

Eggs for Hatching.

J. S. BALES Box 17, Route 2 SPRINGFIELD, ILL.

Buff Orpingtons

Eggs for hatching, grand exhibition pens; also from range flock at \$4.00 per 100.
JOSEPH POTTINGER, Route 21, PERU, ILL.

Associations and Shows

Secretaries are Requested to Send in News Items of Interest About Their Shows for This Department

PROGRAM AND ORDER OF BUSINESS.

Forty-first Annual Meeting of the American Poultry Association, Cleveland, Ohio, Headquarters Hollenden Hotel, August 7-12, 1916.

All meetings of the association will be held in the Convention Hall of the hotel.

MONDAY, AUGUST 7, 1916.

9 A. M.—Registration of members and visitors and presentation of souvenir badges to members.

9:30 A. M.—Meetings of the Executive Board will be held morning, afternoon and evening in Committee rooms at hotel.

8 P. M.—Reception at the Auditorium for members of the association, visiting poultrymen and friends.

TUESDAY, AUGUST 8, 9:30 A. M.

Address by Geo. H. Poulson, President of the Cleveland Poultry Breeders' Association. Welcome to Ohio, an address by Frank C. Stier, President of the Ohio Poultry Breeders' Association.

Welcome to the City of Cleveland, an address by Mayor Harry L. Davis.

Welcome by the Cleveland Chamber of Commerce, an address by T. P. Cagwin, of Convention Board.

Response by E. E. Richards, President of the American Poultry Association.

Presentation of gavel to E. E. Richards, President of the American Poultry Association, by the President of the Cleveland Poultry Breeders' Association.

10:30 A. M.—Regular call to order of the association by President Richards.

Important Notice—All credentials must be in the hands of the Secretary before opening roll call.

Appointment of Committee on Credentials. Roll call of members by states.

Approval of minutes of last meeting, as published in the Proceedings.

Report of Committee on Judiciary, submitting order of business to govern all sessions of this annual meeting of the American Poultry Association, as per Section 88, Article 10, of the Laws of the association.

Report of Election Commissioner.

Election of Board of Review.

Report of Executive Board on applications for membership.

Report of Committee on Credentials.

Notice—All following reports are open for discussion as soon as made upon motion to carry their recommendation into effect.

Annual report of Secretary, with recommendations.

Annual report of Treasurer, with recommendations.

Annual report of Finance Committee, with recommendations.

Adjournment.

AFTERNOON SESSION, 2 P. M.

Report of Board of Review, under suspension of Rules.

Report of Committee on Credentials.

State and Provincial membership reports. (All reports must be in writing, signed by the Presidents of the Members, and in the hands of the Secretary of the American Poultry Association before reports of these state and provincial associations are called for. No verbal reports will be permitted.)

Report of Committee on Welfare, Grievances and Appeals.

Report of Committee on School Text Books.

Report of Committee on Market Poultry and Egg Standards.

Report on Committee on Breed Standards.

Important Notice—All resolutions, motions, petitions, etc., calling for an expenditure of association funds must, as per Section 96 of Article 12 of the Laws of this organization, be presented at or before this time: otherwise a three-fourths vote will be necessary for a suspension of the Rules in order to introduce such resolutions, motions, etc., at a later session of this annual meeting.

Report of the Executive Board on new members.

EVENING SESSION, 7:30 P. M.

Address by Frank B. White, Chicago, Ill., Managing Director Agricultural Publishers' Association, on advertising in Poultry and Farm journals.

Address by Prof. H. R. Lewis, New Brunswick, N. J., on Poultry Organizations in New Jersey and Pedigreed Laying Contests.

Address by Prof. James E. Rice of Cornell University, Ithaca, N. Y.

WEDNESDAY, AUGUST 9, 9 A. M.

Report of Committee on Judiciary, as per Section 90 of Article 10 of the Laws, relating to proposed amendments to Constitution and Laws of the association.

Consideration and action upon amendments to Constitution and Show Rules, and resolutions, as published in the May Bulletin.

Trip thru the May Company's Department Store by the ladies.

Reports of all Committees not herein mentioned.

AFTERNOON SESSION, 1:30 P. M.

Further consideration of proposed amendments.

2 P. M.—Automobile ride thru the parks for the ladies.

WEDNESDAY EVENING.

Trip to Luna Park.

THURSDAY, AUGUST 10, 9:30 A. M.

Report of Executive Board.

Report of Committee on Poultry Shows and Licensing Judges.

Election or approval of new members.

Report of Hold-over Committees.

Report of Committee on Education.

Report of Committee on Legislation.

Report of Finance Committee, submitting budget of estimated expenditures for ensuing year, as per Section 95 of Laws.

Report of Committee on Poultry Huckstering.

Unfinished business.

AFTERNOON SESSION.

Inauguration of officers.

Standing Committee announcements.

Reports of Special Committees.

Election of Treasurer announced.

Election of Election Commissioner.

New business.

Appointment and announcement of special committees, discussions and questions.

Adjournment.

Meeting of new Executive Board.

THURSDAY EVENING.

Boat ride on Lake Erie.

FRIDAY MORNING, AUGUST 11.

Trolley ride and visit to H. Cecil Shepard's Poultry Farm, Berea, Ohio.

During the Convention there will be a meeting of Poultry Judges for the purpose of discussing important problems in which they are particularly interested.

Meeting of Poultry Judges.

Meeting of Poultry Show and Specialty Club Secretaries.

Meeting of dealers and hatchers of day-old chicks.

Meeting of poultry journal editors and solicitors.

The time for these meetings will be announced at the opening of the Convention. Program subject to change as conditions may require.

You Lost Many Eggs This Year! Avoid Future Losses—FACTS FREE

Your season's hatching experiences are still fresh in your mind—the successes and failures. *Right now* is a mighty good time to study the problem of how to get better results next year; how to eliminate all chance of failure, to get bigger hatches, to make greater profits.

Learn what results were actually secured this year by users of the Newtown Giant Incubator and compare these records with your own. Figure how much more money you would have made if you had used more efficient hatching apparatus and promptly perfect your plans to secure bigger, better results next season.

It isn't a bit too early to attack this most important problem and get it settled *right*.

We will furnish free some hatching reports and statistics which will convince you that the science of artificial incubation has at last been perfected.

Every live poultryman should study these figures. Write for them today.

NEWTOWN GIANT INCUBATOR CORP'N
21 Warsaw Street Harrisonburg, Virginia



PRICES SMASHED

Write for the Greatest Incubator Bargain ever offered, on the most successful incubator ever built.

Old Reliable Incubator

Used at many Government Farms 34 years the standard—holds over 1200 First Premiums, awarded on superior merit.

Guaranteed successful in your hands or your money back.

Get Free Poultry Book and my low price before you buy.

Reliable Incubator & Brooder Co. J.W. Myers, Pres. Box A-1 Quincy, Illinois

Chicago Coliseum Show for 1916.

The Red class will be divided between Tucker and Kummer. Pierce will judge White Leghorns, both Rose and Single Comb. Whitney, White Wyandottes, Keeler Buff and Golden Wyandottes. Orpingtons will be divided between Byers and Rawnley. Byers, White Orpingtons, and at least one of the male classes in Buffs. Rawnley all the Buffs except the one male class, and will have at least one male class in Blacks. Rikhoff, Brown and Buff Leghorns. Hackett Partridge Wyandottes and Buff Rocks. Wells Partridge Rocks and Houdans. Johnston, Langshans and perhaps Minorcas—this last class not fully decided as yet. Tucker, Sussex. Silver Wyandottes are still open, waiting for the action of the club, but it is quite likely that Kummer will have at least a part of them. Barred and White Rocks still open, but it is quite likely that Russell will be assigned to them. Camperes still open and judge will be named later. This is as far as we have gone with the assignment, and if of value to our exhibitors we are glad to give this advance notice. Dates for 1916, December 13th to 15th, opening on Wednesday following the close of the Palace Show in New York, and closing on Monday night. Buffalo and St. Louis will likely hold to their Thanksgiving week. The Palace will open the first Tuesday in December, and we presume the Garden will hold their old dates of the last days of December and the first of January. With the Coliseum open four days after the close of the Palace and closing ten days ahead of the Garden, everyone can make two or more of these shows.

All prospective exhibitors by sending in their names now while they think of it will be sure of receiving the Premium List November 1st.

Theo. Hewes, secretary Coliseum Show, 25 West Washington St., Indianapolis, Ind.

HAMILTON, OHIO'S BIG SHOW.

Last season Hamilton held one of its most successful shows in connection with the big fair in October. Same was successful to such an extent that the same proposition has again been adopted and the show will be held on the 3rd, 4th, 5th and 6th of October, the entries closing on September 30th, Saturday before the show. Secretary J. E. Humbach, who has acted in that capacity for so many years in Hamilton, will again have charge of the show, all birds will be properly cooped, fed and cared for by the association and this will, without a doubt, be the biggest and best show ever held in Hamilton. Several of the country's leading judges will be secured and large silver loving cups will be given to the winners all along the line.

Entry fees, 25c per bird, \$1.00 per pen, and premiums paid 60% to first and 40% to second, the association holding out nothing. Five handsome association ribbons will also be awarded. All birds cooped free of charge in uniform cooping. Write J. E. Humbach for particulars of this big early show.

MODERN GAME AND GAME BANTAM CLUB.

Every breeder and fancier of Modern Games and Game Bantams is requested to drop a postal card to the undersigned for a copy of the Constitution and By-Laws of this club. The impression prevails that this charter is the most wide-awake one governing a specialty club in this hemisphere. All the good qualities of America's and England's clubs have been drafted into this one, but it is only natural that this should be so, for no more sterling fancier exists than the one who is a lover of these sportiest of fowls—none more liberal in their views.

The charter has opened for membership and all those who enroll before September 1st will become charter members; their names will always be run in heavy faced type in the club catalog; and by special inducement they will have no initiation fees to pay nor dues until after September.

Claude C. Armstrong, Secretary,
Modern Game and Game Bantam Club,
40 Heather St., Rochester, N. Y.

BLUE ORPINGTON CLUB.

Dr. W. E. Creath, of Ottumwa, Ia., was elected president of the Blue Orpington Club. Dr. Creath wishes to express his thanks to the club members for his election and for the honor, and to pledge his best efforts to its interests.

The Blue Orpington Club will hold its next club meeting at Madison Square Garden, N. Y.

Will all the members please send in their articles or pictures of their birds as soon as possible for our club book? Would be very glad to receive them. Also to those who have promised to write articles, don't forget to send them in now.

GRACE NICHOLSON,
Secretary Blue Orpington Club,
Leominster, Mass.

State Fairs for 1916

Name of Fair	Place	Date	Secretary
Alabama State Fair	Birmingham	Oct. 5-14	F. H. Fowlkes
Am. Royal Live Stock Show	Kansas City, Mo.	Oct. 2-7	H. H. Veer
Alabama State Exposition	Montgomery	Oct. 23-28	Geo. T. Barnes
Arkansas State Fair	Hot Springs	Sept. 2-9	Chas. W. Paine
California State Fair	Sacramento	Sept. 2-9	Chas. W. Paine
Calgary Indus. Exhibition Co.	Calgary, Alta.	June 29-July 5	E. L. Richardson
Canadian Industrial Ex.	Winnipeg	No exhibition will be held in 1916	
Forest City Fair	No. Randall, O.	No fair will be held in 1916	
Georgia State Fair	Macon	Nov. 2-11	Harry G. Robert
Gem. State Fair	Boise City, Idaho	Sept. 25-30	O. P. Hendershot
Illinois State Fair	Springfield	Sept. 15-23	B. M. Davison
Indiana State Fair	Indianapolis	Sept. 4-8	Chas. Downing
Iowa State Fair	Des Moines	Aug. 23-Sept. 1	A. R. Corey
Interstate Live Stock Fair	Sioux City, Ia.	Sept. 18-23	Joe Morton
Interstate Fair Ass'n.	St. Joseph, Mo.	No fair will be held in 1916	
Interstate Fair Ass'n.	Trenton, N. J.	Sept. 25-29	M. R. Margerum
Kansas State Fair	Hutchinson	Sept. 16-23	A. L. Sponsler
Kansas State Fair Ass'n.	Topeka	Sept. 11-16	Phil Eastman
Kentucky State Fair	Louisville	Sept. 11-16	W. J. Gooch
Kankakee Interstate Fair	Kankakee, Ill.	Sept. 4-9	Len Small
Louisiana State Fair	Shreveport	Nov. 1-6	L. N. Brueggerhoff
Minnesota State Fair	Hamline	Sept. 4-9	J. C. Simpson
Michigan State Fair	Detroit	Sept. 4-13	G. W. Dickinson
Mississippi State Fair	Jackson	Oct. 23-28	Mable L. Stire
Mississippi-Alabama Fair	Meridian, Miss.	Oct. 16-21	A. H. George
Missouri State Fair	Sedalia	Sept. 23-30	E. T. Major
Montana State Fair	Helena	Sept. 25-30	P. B. Snelson
Memphis Tri-State Fair	Memphis, Tenn.	Sept. 24-Oct. 3	Frank D. Fuller
Nat'l Western Stock Show	Denver, Colo.	Jan. 20-27, 1917	Fred P. Johnson
Nat'l Feeders and Breeders Show	Ft. Worth, Texas	March 13-18	Ed. R. Henry
Nebraska State Fair	Lincoln	Sept. 4-9	W. R. Mellor
New York State Fair	Syracuse	Sept. 11-16	Albert E. Brown
New State Fair	Muskogee, Okla.	No Show will be held in 1916	
Northwestern Live Stock Ass'n.	So. St. Paul, Minn.	Aug. 23-Sept. 1	G. A. Stauffer
Ohio State Fair	Columbus	Sept. 23-30	I. S. Mahan
Oklahoma State Fair	Oklahoma City	Sept. 23-30	A. H. Lea
Oregon State Fair	Salem	Sept. 25-30	A. H. Lea
Pacific International Live Stock Exp.	No. Portland, Ore.	Aug. 28-Sept. 2	Georges Morrisset
Quebec Provincial Exposition	Quebec, Canada	Sept. 4-9	Edgar E. Edwards
Rochester Exposition	Rochester, N. Y.	Sept. 4-9	Edith Jones
Spokane Interstate Fair	Spokane, Wash.	Sept. 11-15	C. N. McIlvaine
South Dakota State Fair	Huron	Sept. 10-13	C. R. Bone
South Texas Fair Ass'n.	Beaumont	Oct. 14-19	W. H. Stratton
State Fair of Texas	Dallas	Oct. 2-7	John T. Stinson
St. Louis Agrl. Fair	St. Louis, Mo.	Oct. 14-21	R. M. Striplin
Southeastern Fair Ass'n.	Atlanta, Ga.	Sept. 18-23	J. W. Russwurm
Tennessee State Fair	Nashville	Nov. 4-19	S. N. Mayfield
Texas Cotton Palace Ass'n.	Waco	Oct. 2-7	Horace S. Ensign
Utah State Fair	Salt Lake City	Sept. 12-15	F. L. Davis
Vermont State Fair	White River Jct.	Aug. 14-19	H. S. Rolston
Vancouver Exposition Ass'n.	Vancouver, B. C.	Sept. 11-15	O. E. Remy
Wisconsin State Fair	Milwaukee	Sept. 26-30	A. Highby
Wyoming State Fair	Douglas	July 17-22	C. A. Nash
North Dakota State Fair	Fargo	July 25-29	D. V. Moore
Grand Forks Fair	Grand Forks, N. D.		



Sunswick Summer Sale

THIS great S. C. Buff Orpington Specialty Farm has carried off the highest honors at the leading Shows of America for many years. You should have some of these magnificent birds in your own yards. They are proven money-makers.

Breeding Birds

Cocks and Cockerels . . . \$3.00, \$5.00 and \$10.00 each
Hens and Pullet . . . 2.00, 3.00 and 5.00 each

We are booking orders for Show Birds—early fall delivery. There are some exceptionally fine youngsters among our 1916 stock. We shall be glad to correspond regarding your individual needs.

Write at once for our Summer Sale of bargains containing special prices on Show Birds and Breeders. On sale for six weeks only.

SUNSWICK POULTRY FARM · Rufus Delafield, Owner · Box J, SOUTH PLAINFIELD, N. J.



Barred Plymouth Rocks

BUY your eggs at reduced prices from a firm that has been in the business for 25 years. No matter what you pay, no one can furnish you better quality than we can. Our quality is wonderful, yet our prices are the lowest of any of the big breeders.

For July and August Only

Eggs \$1.00 per 15 \$2.75 per 50
Eggs \$1.75 " 30 \$5.00 " 100

9 Firsts, 8 Seconds, 7 Thirds, 2 fourths and 3 fifths premiums at the big Ky. State Fair and great Armory Show, Louisville, prove our unapproachable quality. Exceptionally low prices on yearling breeders. Send us your order today for what eggs you need.

POPE & POPE, - Box A, Louisville, Kentucky

Rancho Del Martino—Panama-Pacific First Prize Winners

SINGLE COMB WHITE LEGHORNS

Exhibition Stock for the Early Shows

Write for Free Illustrated Catalog.

MRS. E. B. MARTIN

DOWNEY, (Los Angeles County), CALIFORNIA



Diamond Corn Gluten Meal

A hen becomes a profitable investment when it starts to lay. Your pullets should begin to lay when they are four and a half to five months old

Protein fed in the right proportion is indispensable for the development of the young stock. Diamond Corn Gluten Meal contains the necessary protein.

Try this formula for your young stock:—

50 lbs. of Wheat Bran	50 lbs. of Diamond Corn Gluten Meal
50 lbs. of Middlings	35 lbs. of Beef Scraps
50 lbs. of Corn Meal	15 lbs. of Bone Meal

In one case where this dry mash was fed a pullet laid her first egg four months and 10 days after she was hatched. The rest of the same lot were all laying before they were five months old.

The way for you to obtain the same results is to get Diamond Corn Gluten Meal from your dealer, and start feeding your young stock this mash.

CORN PRODUCTS REFINING COMPANY
New York



CHICKS 400,000 S. C. & R. C. White Leghorns & S. C. Brown

FOR 1916 Leghorns \$10 per 100; \$5.50 per 50; \$3 per 25. Barred P. Rocks, White P. Rocks, S. C. & R. C. Black Minorcas, White Wyandottes, S. C. & R. C. Reds, S. C. Anconas \$12.50 per 100; \$6.50 per 50; \$3.50 per 25. Our ninth season. Safe arrival and satisfaction guaranteed.

Cleveland Hatchery, 7916-18 West Madison Avenue, Cleveland, Ohio

The F. & H. BLUE PLYMOUTH ROCKS

—THE FOWL FOR EVERYBODY—

EGGS HALF-PRICE NOW. Few selected breeders for sale at reduced prices. List free.

Fishel & Hasselman 34th and Central Ave. Indianapolis, Ind.

Special Sale for June of TRAP-NESTED S. C. WHITE LEGHORNS

Fine breeders, one and two years old, from high record pens, at one-half catalog prices. Also half prices on Hatching Eggs and Chicks. Write at once and get first chance. Our Hens with records of 150 and up, at \$1.00 each. We have lots of 1,000.

LILY WHITE POULTRY FARM J. F. BEST, MGR. SAGINAW, MICH.

KEELER'S WHITE WYANDOTTES

The ideal show and utility strain. Five Firsts, Chicago, 1916. Egg-record up to 265. Peace time prices on adult stock during June, July and August. Send for special Sales List. 2000 February, March and April chix growing. CHAS. V. KEELER - R. F. D. No. 11 - Winamac, Ind.

Gensch's S. C. White Orpingtons

Won 1st old pen, 2nd and 7th cockerels, 3d cock, 3rd and 7th pullet and 6th hen, at the Coliseum show at Chicago, December, 1915. Eggs half price. Breeders for sale at a bargain, including 1st pen cock.

F. M. GENSCH Box G OMRO, WIS.

HANOVER FAIR POULTRY SHOW.

From every indication the coming poultry exhibition, September 12-13-14-15, will be the largest and best in quality of any previous exhibition held by this well known Fair Association. Manager C. N. Myers and assistant Jas. T. Huston, two of the best known poultrymen of the East, are bending every effort to this end, which, with the earnest co-operation of the many fanciers of that section, cannot help but draw a quality exhibit to Hanover, Pa.

The poultry building is one of the finest in the country, fully equipped with empire coops, the best of lighting facilities, and every care given to sanitation.

The management announce the following judges: J. Harry Wolsieffer, Vineland, N. J.; Geo. L. Young, Brooklyn, N. Y.; Chas. Wells, Stratford, Conn., and Chas. Nixon, Washington, N. J. This alone should bring out a record entry, as these men are recognized as among the country's best judges.

Premium list is now ready for mailing, and shows in addition to most liberal regular premiums a long list of special cash and cup prizes.

Better write to day for premium list and plan to make your entry early. Address P. O. Box 286, Hanover, Pa.

GREAT CHANGES AT ALLENTOWN.

The Premium List of the Great Allentown Fair which will be ready some time next month will show some great changes in the poultry department. Changes that are sure to please breeders and exhibitors and that will keep Allentown in the forefront as one of the very biggest and best poultry shows in America.

To start with, all requirements as to filling a class are removed. Or, even if only one bird is shown in a class and is awarded a first prize it will get first money. Next, three cash prizes will be paid on all varieties, all classes, singles and pens. Lastly, there will be a complete new list of judges this year, each one a judge of national reputation and with such things as game bantams, ornamental bantams, water fowl, market eggs, etc., each having its own specialty judge.

Outside of this Allentown, under Supt. Wittman, has always been in the forefront in its up-to-date management and conduct of its poultry show and the rules have been still further amended to continue this work forward.

GEORGIA STATE FAIR.

Preparations are being made to give the poultry and pigeon departments of the 1916 Georgia State Fair to be held in Macon, November 5-11, especial attention, according to information received from the fair association by B. E. Adams, who was recently appointed manager for this department.

A number of improvements will be made in this department and large cash specials will be offered, it is announced. The annual catalog of the fair is now ready for mailing and contains complete classification on all varieties of poultry and pigeons. It is expected that a special premium list on poultry will be issued some time in August; this list will contain all rules governing the show and also have a list of the many specials which will be offered in this department.

TO SHOW SECRETARIES.

The National Partridge Wyandotte Club offers to its members gold, silver and bronze fob medals, also special ribbons to each first cock, hen, cockerel, pullet, pen, old pen and young pen. Breeders desiring to join the club can do so by sending \$1.50 to J. F. Tallinger, secretary-treasurer, Barnard, N. Y., membership fee and dues for year ending October 1st, 1917.



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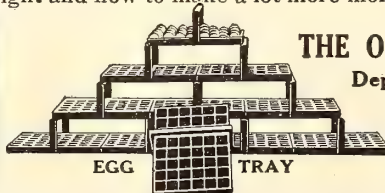
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FOR SALE—SINGLE COMB Anconas exclusively. Large, dark, nicely mottled birds; in fine condition. Grand egg producers. Cocks, hens, pullets and cockerels at reasonable prices. Eggs \$1.50 per 15; \$7 per 100. Geo. C. Schwegman, Richmond, Indiana. 4-7

SHEPPARD'S WORLD renowned Anconas, the birds that all Anconas are judged by. See display ad inside front cover. H. Cecil Sheppard, Box 112, Berea, Ohio. 11-15 1 yr

BANTAMS.

BANTAMS—SEVERAL VARIETIES. Old and young. For coming fairs. Mrs. C. W. Osborne, Youngstown, Ohio, Route 2. 7

EXHIBITION JAPANESE Bantams—Black Tails, Blacks, Golden Sebrights, Black Cochins. Eggs, \$2.00 per setting. Satisfaction guaranteed. Hez. Kinter, Dillsburg, Pa. 7-9

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BANTAMS bring profit and pleasure. Our monthly tells how and why. Send 50c for a year's subscription or ten cents for a three months' trial. American Bantam Fancier, 933 Advertising Bldg., Chicago. 1-14 tf

BANTAM SPECIALIST. Buff, Black, Part-ridge Cochins, Light and Dark Brahmas. I ship on approval. Circular free. Geo. C. Salmon, Port Dickinson, N. Y. 1-14 tf

BRAHMAS.

THOROBRED LIGHT BRAHMAS—Eggs, 15, \$1.25; 50, \$3.00; 100, \$5.00. Chas. O. Leeper, Heyworth, Ill. 7

BUTTERCUPS.

BUTTERCUPS—THE BEST. The kind that lay and win. Write for booklet. Wm. Freise, La Crosse, Wis. 5-7

GOLD COIN BUTTERCUPS. Winners at Chicago. Stock and eggs for sale. Booklet free. O. B. Disenroth, Lawrence, Mich. 7-9

BUTTERCUP HATCHING EGGS from excellent layers, \$2 and \$3 per 15. Knodel, Port Jefferson Station, L. I., N. Y. 1-7

CAMPINES.

PRIZE-WINNING SILVER, Golden Campines. This ad worth \$1.00 with each setting. Write for catalog. Dr. Prudhomme, Desk A, Thurmont, Md. 5-7

SILVER CAMPINES. Grand birds reasonably priced. Rev. W. Berberich, Groton, New York. 11-15 tf

SILVER AND GOLDEN CAMPINES—Stock for sale. Chas. Abel, Johnstown, N. Y. 2-7

CORNISH.

AT THE PALACE SHOW—Every first, second and third but one, with eight exhibitors showing sixty birds. White Cornish only. Catalog for stamp. Mountsville Farms, Mountville, Virginia. 2-16 tf

DORKINGS.

WESTFALL'S CHAMPION DORKINGS. Exclusive breeder 27 years. More first prizes, silver cups and specials last 17 years than all competitors combined. Eggs reduced to \$2.00 per 15; \$3.50 per 30; from very best females we own. Can spare several pens of birds fit for show or any other purpose, at reasonable prices. Watson Westfall, Sayre, Pa. 2-16-lyr

HAMBURGS.

SILVER SPANGLED HAMBURGS. Black Diamond strain. Highest honors at Madison Square and leading shows of America. Eggs, \$3.00 and \$5.00 per 15. If you want the best and birds that can win in any competition, you should order stock or eggs from Will L. Clark, Sullivan, Ohio. 3-16tf

HOUDANS.

HOUDANS. Proprietor all Peterson's. Also book. 20c. Eggs, stock. Dr. Wight, Bolster's Mills, Me. 11-13 tf

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FINE PEN LAKENVELDERS—Must be sold. Crans, 14 New St., East Orange, N. J. 7

LAKENVELDERS—GOOD yearling fowls and fine young stock at reasonable prices. C. E. Patterson, Cardington, Ohio. 7

LANGSHANS.

BLACK LANGSHANS—Eggs from high scoring, winter laying stock, \$2.00 per 15. Dr. W. J. Morgan, Seaton, Ill. 3-7

S. C. WHITE LEGHORNS.

WYCKOFF COCKERELS FROM our 260-egg strain. The kind we sell for \$3.00 and \$5.00 in the spring. 50 cents and \$1.00 each now. Cockerels three and four months old. Yearling hens, \$1.50 and \$2.00. Eggs, \$1.00 per 15. Brookwood Poultry Farm, Cary Station, Ill. 7-8

FOR SALE—Corning and Young strain S. C. White Leghorn yearling hens, laying, fancy breeders, \$1.00 and up. Ravenswood Poultry Farm, 3357 Foster Ave., Chicago, Ill. 7

2000 PULLETS AND COCKERELS. White Leghorns; Young and Tom Barron strains. Order now for fall delivery. Also several hundred yearling hens, in fine shape, for sale. Write for pamphlet. Blue Mountain Poultry Farm, P. O. Columbia, N. J. 7-9

S. C. WHITE LEGHORNS. Young strain. 500 yearling hens, 1000 April hatched pullets. Prices reasonable. Satisfaction guaranteed. Miller Poultry Farm, Box T, Lancaster, Mo. 7-9

24 EGGS \$1.00. Blanchard-Wyckoff Single Comb White Leghorns. 100 chicks \$8.50. Hens, cocks, cockerels. Send for circular. W. Albers, Lombard, Ill. 7-9

PULLETS! HENS! COCKERELS! Welday's celebrated English-American S. C. White Leghorns. World's leading layers. Big catalog. Welday, Seville, Ohio. 7-9

HAWKEYE SINGLE COMB White Leghorn Farm, Oskaloosa, Iowa, has 1500 pullets, 800 yearling hens. This stock has been bred for the past 10 years for egg production. 75 cents to \$1.00 each. W. L. Woodrow. 7-9

PULLETS, YEARLING HENS, any number. Wyckoff Single Comb White Leghorns. 25 years in this business. Hundreds of customers, largest plants say I furnish greatest layers possible. Circulars, low prices, full information. C. N. Reynolds, Canton, Pa. 7-10

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WHITE LEGHORN YEARLING pullets, \$1.25 and \$1.50 each. Exceptional quality. Early hatched cockerels \$1 each. Satisfaction guaranteed. Woodford Poultry Farm, Route 10, Cincinnati. 6-8

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R. C. BROWN LEGHORNS.

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S. C. BROWN LEGHORNS.

\$3.50 PER HUNDRED fertile eggs—Welday's 256-egg S. C. Brown Leghorns. Fine cockerels. Special eggs guaranteed to produce winners at any show. World's Leading Breeder. Catalog. Welday, Seville, O. 5-7

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ZULAUF'S FAMOUS BLACK Leghorns, the greatest of all winter layers. Eggs for hatching \$2 per 15, or \$5 per 50. Edward Zulauf, Uby, Mich. 4-7

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SINGLE COMB BUFF Leghorns—the kind that lay and win at Palace and Madison Square Garden Shows. Eggs, \$3 per 15; \$5 for 30. Glenwood Poultry Yards, Rutherford, N. J. 4-7

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ROSE COMB WHITE Minorcas. Blue ribbon winners at Chicago Coliseum and Melrose Park, Ill. Stock and eggs for sale. E. Fetzner, Melrose Park, Ill. 5-7

BUFF MINORCAS.

BUFF MINORCAS. Won 5 firsts at Chicago last winter. July special, 10 choice females and male, \$40.00. Edward Schmidt, Hazelrigg, Ind. 7

BUFF MINORCAS. Eggs and stock half price. E. Schmidt, Hazelrigg, Ind. 5-7

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50 **EGGS** \$3. **WELDAY'S** 200-egg Black Orpingtons. 15 eggs guaranteed to produce winners at any show, \$3. Cockerels, hens. Startling catalog. Welday, Seville, O. 3-8

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MARCH HATCH BUFF Orpington cockerels. Owen prize winning strain, \$2 to \$5. Blithewood Poultry Farm, Irwin, Va. 7

SINGLE COMB BUFF ORPINGTON cockerels and hens. Eggs from pen, \$2 per 15; range, \$6 per 100. Baby chicks, 20 cents. Mrs. W. T. Garner, Crossville, Ill. 5-7

BLUE ORPINGTONS.

BLUE ORPINGTONS. Extra fine birds reasonable. Rev. W. Berberich, Groton, New York. 11-15-tf

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ALDRICH AND OWEN Farms White Orpingtons. All eggs half price. Breeders after June. Art F. Linders, Box 106, Baldwin, Ill. 6-8

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BEAUTIFUL BLUE AND Partridge Orpingtons. This ad worth \$1.00 with each setting. Write today for catalog. Dr. Prudhomme, Desk A, Thurmont, Md. 5-7

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PRIZE WINNING HATCHING EGGS. Golden Nonbearded Polish, \$2.50 per 13. Silver Nonbearded Polish, \$3.50 per 13. L. H. Gartz, 542 N. Monticello Ave., Chicago, Illinois. 7

RHODE ISLAND REDS.

BABY CHICKS AT SPECIAL prices from Rhode Island Reds that averaged over fifty per cent egg production all winter—the only kind that pay. Both combs. Anderson's "Penn View" Farm, Pattenburg, N. J. 3-7

MY SINGLE COMB REDS, winners at Evansville, Louisville and Mt. Carmel. Great layers. Mating list free. Philip A. Seifert, Mt. Vernon, Indiana. 3-9

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THE GREATEST RHODE ISLAND White farm. Eggs reduced. Utility, 75 cents per 15. Pens, \$1.50 per 15. Also baby chicks. Rose and Single Comb. Stock, \$6.00 per trio and \$10.00 per pen. Henry Elchelmann, R. 4, Waterloo, Ill. 6-8

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THOMPSON'S BARRED ROCKS. Pullets, yearlings, cockerels. Catalog. Failing Poultry Farm, La Fargeville, N. Y. 7-9

BARRED PLYMOUTH ROCKS—Pure bred E. B. Thompson's Ringlet strain. 26 eggs, \$1.50; \$4.50 per 100. Address Ben Custer, Route 9, Madison, Ind. 6-7

BARRED ROCKS—RINGLETS. Thompson's winning lines direct. Eggs, exhibition matings, \$3 per 30. Breeding stock sale now on. Write for special list. Satisfaction guaranteed. F. L. Gould, Table Grove, Ill. 6-7

ROSEMOUNT BARRED ROCKS — Ever better; Cleveland first prize winners. Illustrated catalog now ready. Let's get acquainted. Franklin, Pa. 2-7

BARRED ROCK BREEDERS—Learn more about your variety, subscribe for National Barred Rock Journal, Union City, Mich., issued monthly and devoted exclusively to the Grand Old Breed. 50c a year, 3 years \$1, sample 5c. 3-16-1yr

WHITE PLYMOUTH ROCKS.

WHITE ROCKS—Fishel direct. Eggs and stock. Reasonable. George Boye, St. Peter, Ill. 6-9

WHITE ROCK YEARLING pullets, \$1.50 and \$2.00 each. Exceptional quality. Woodford Poultry Farm, Route 10, Cincinnati. 6-8

COLFAX WHITE ROCKS—The strain of pure worth. Eight-week-old chicks in hundred lots. Write today. T. F. Richardson, "Colfax," Evanston, Ill. 6-8

40 **WHITE ROCK** hens for sale cheap. Fishel strain direct. 30 eggs, \$1.50; 100, \$4.00. Henry Heitkamp, New Bremen, O. 7

WHITE ROCKS, Halbach strain direct; bargain prices on my heavy layers to make room for young stock. Write your wants. Harvey Thomas, Upper Sandusky, O. 7-9

FISHEL WHITE ROCKS direct. Farm raised. Prominent winners under prominent judges. In health, constitutional vigor and standard requirements. They will please you. They are white, shapely, neat combed, and sure to please. A few good breeding and exhibition hens at \$2.00, \$3.00 and \$5.00 each. Booklet free. Plummer McCullough, Poultry Judge, Mercer, Pa. 12-15-1yr

WHITE ROCKS—GALEBACH'S quality White Rocks are bred for egg production, as well as for fancy show points, and prove to be of the best. Stock for sale. Satisfaction guaranteed. R. K. Galebach, R. 6, Manheim, Pa. 7-8

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COLUMBIAN PLYMOUTH ROCKS—Enslin strain. T. J. Enslin, Hackettstown, N. J. 1-16-1yr

PARTRIDGE PLYMOUTH ROCKS.

AMERICA'S PROVEN CHAMPION Partridge Rocks and Bronze Turkeys. See our adv. on page 928. 5-15-tf

RED SUSSEX.

COBURN'S RED AND SPECKLED Sussex. Biggest winners at New York and Chicago Club shows. June 1st, breeders half price. Great reduction on eggs. Red Sussex Farm, St. Clair, Mich. 2-16-tf

RED SUSSEX — Exhibition and utility cocks, hens, pullets, \$2 up. Parker, 194 Young St., Winnipeg, Canada. 5-7

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SPECKLED SUSSEX. Choice stock priced reasonably. Rev. W. Berberich, Groton, New York. 11-15-tf

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RED AND SPECKLED Sussex. All my breeding stock for sale. Reasonable. P. H. Jones, 64 Forest St., Akron, O. 7

ENGLISH RED AND SPECKLED Sussex. This ad worth \$1.00 with each order. Write today for catalog. Dr. Prudhomme, Desk A, Thurmont, Md. 5-7

COLUMBIAN WYANDOTTES.

COLUMBIAN WYANDOTTES that showed their superior quality by winning more first, second and third prizes this season at Chicago, Minneapolis, Winnipeg and Minnesota State Fair, than all my competitors combined. Mating list free. Geo. A. Kersten, Washburn Park, Minneapolis, Minn. 4-16-1yr

PURE BRED COLUMBIAN Wyandottes. Must reduce my stock—old and young—as I am overcrowded. Half price. Alfred W. Budd, North Brookfield, Mass. 7

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STERLING SILVERS—"The quality kind." Consistent winners, persistent layers. Chas. B. Wright, Marcellus, N. Y. 6-8

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WHITE WYANDOTTES.

HIGH CLASS WHITE Wyandottes—Martin strain. Choice yearling stock and hatching eggs at reduced prices. Wm. Remmert, St. Peter, Ill. 7

100 **WHITE WYANDOTTE** hens for sale at \$1.50 each. C. E. Van Buren, Victoria, Illinois. 7

SPRING BROOK FARM White Wyandottes, famous laying strain. Eggs from choice matings of splendid layers, \$1.50 per 15; \$8.50 per 100. N. E. Robart, Caledonia, Mich. 5-7

WHITE WYANDOTTES — Fishel Strain. Eggs, young and old stock for sale. Edw. C. Wiesenborn, Grand Chain, Illinois. 5-7

WHITE WYANDOTTES. Utility stock, standard breeders and exhibition birds. Prices reasonable. G. A. Haper, R. 8, Batchtown, Ill. 5-7

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BARGAIN EXTRAORDINARY. At the Milwaukee Show, January 21st to 26th, 1916, a show that compared favorably with The Coliseum, in White Wyandottes I won 5 out of 6 firsts in the second largest class in the show. I won 1st and 5th cocks; 1st and 2nd hens; 1st cockerel; 1st and 2nd pullet, and 1st old pen. If you question the quality of my Wyandottes, write Judges W. C. Pierce, Theodore Hewes, or Mr. Wells. I have 8 pens mated of the very best Wyandottes in the country, and I will sell eggs from these pens in limited numbers at \$3.50 per setting of 15 eggs—not more than 2 settings to any one customer. If you are interested, place your order early. Frank E. Hering, South Bend, Ind.

WYANDOTTES—SEVERAL VARIETIES.

SPECIAL OFFER THIS MONTH — Buff and Partridge Wyandotte stock and eggs. Coffin & Sons, Waverly, Iowa. 5-7

SEVERAL BREEDS.

SUMATRAS, ORPINGTONS, White Rocks. James A. Daley, Licensed Poultry Judge, Mohawk, Mich. 11-15-1 yr

BABY CHICKS.

CHICKS 6C AND UP—White Wyandottes, Rocks, Leghorns, Minorcas, etc. Safe delivery guaranteed. Circular free. Reliable Hatchery, McAlisterville, Pa. 5-7

S. C. WHITE LEGHORN chicks, \$12 per 100. Wyckoff's, the world's greatest strain. Mauerhof, 5150 S. Artesian Ave., Chicago, Illinois. 5-7

BABY CHICKS AND eggs from high scoring birds. Heavy egg production Laken-velders, Black Minorcas, White Leghorns, Anconas, Hamburgs, White Rocks, Barred Rocks. Price reasonable. Catalog free. John Geiger, Chatfield, Ohio. 4-7

S. C. WHITE LEGHORN CHIX. Ten and 20-day-old chicks. Month-old pullets. Entirely past danger period. You cannot afford to place your order for chix before writing for our illustrated book on the down-to-the-minute way. We raise them for you till they need no artificial heat. We tell how you can clear over \$11.00 per day on 500 of our strain of pullets by next November. Smaller flocks yield better averages. Positive proof. No fancy figures. Twelve years in perfecting one strain. Write now. Kerlins' Grand View Poultry Farm, Center Hall, Pennsylvania. 7

5,000 DAY-OLD WHITE Leghorn chicks, ready for immediate delivery, from our Barren strain, at 7 cents each. Order direct from this ad. Guarantee satisfaction. Free catalog. Devries Leghorn Farm and Hatchery, Zeeland, Michigan, Box 202. 7

CHEAPEST HATCHERY—EXPRESS prepaid. Baby chicks and three months old pullets. Eight best varieties. Book orders now for early pullets. Bargains by hundred. Twenty years experience. Cedar Hill Farm, Saugerties, N. Y. 7-8

50,000 BABY CHICKS. Three weeks chicks, S. C. White, Buff, Brown Leghorns; Black Minorcas; Barred Rocks. Catalog, stamp. Failing Poultry Farm, La Fargeville, New York. 7

TURKEYS.

AMERICA'S BEST Breeding Giant Bronze Turkeys. See our advertisement on page 928. 2-15-1f

AMERICA'S LEADING WINNERS in Giant Bronze Turkeys and Partridge Plymouth Rocks. See our adv. on page 928. 2-1f

DUCKS.

HATCHING EGGS AND DUCKLINGS—White and Colored Muscovy ducks. Blue ribbon winners. Pens headed by 14-lb. drakes. L. Hammond, Burnt Hills, N. Y. 7-8

EGGS FROM ENGLISH Penciled Indian Runner Ducks, \$1 per 15. George Hagedorn, Linn Grove, Ia. 5-7

ENGLISH PENCILED AMERICAN Indian Runner Ducks. Extra good layers. 30 eggs, \$1.25; 100 eggs, \$4.00. J. H. Blood, Windsor, Vermont. 5-7

ROSEMOUNT DUCKS! DUCKS!! DUCKS!. Six varieties. Catalog now ready. Franklin, Pa. 2-7

PIGEONS.

WANTED—5,000 COMMON or Homer Pigeons. Pay at least 25c pair. Market Poultry wanted. D. Gilbert, 1128 Palmer St., Philadelphia, Pa. 1

"PIGEONS"—the finest pigeon magazine, \$1.00 a year, or send 25 cents for four months' trial. Pigeons Magazine, 953 Advertising Bldg., Chicago. 5-14-1f

BELGIAN CARNEAUX PIGEONS — The big ones, the good ones. Free booklet. C. D. Hevenor Co., Tonawanda, N. Y. 7-8

I OFFER GUARANTEED mated Homers in any quantity at \$1 pair and challenge squab companies or dealers to produce better stock at twice this price. Beautiful white Homers, \$1.50 pair. Get my prices on Runts, Carneaux, Maltese Hens and save dollars. Squab Manuel 25c. Charles A. Gilbert, 346 N. American St., Philadelphia, Pa. 4

PHEASANTS.

FOR SALE—A SUPERB lot of Golden, Silver and Amherst pheasants just right for breeding this Spring and Summer. I am now also booking orders for eggs of the following varieties, Mongolian, Ringneck, Chinese, Golden, Silver, Amherst and Reeves. Wood duck, Mallard and Gray Call duck eggs. All the eggs I ship are guaranteed to be from non-related, pure bred, strong, healthy birds, correctly mated; all eggs are guaranteed not to be over three days old when they leave my farm. I also manufacture a full line of special foods for the successful raising of young pheasants and wild water fowl, also for feeding the old birds all the year round. Write for prices. Wallace Evans Game Farm, St. Charles, Ill. Largest and most successful breeders of pheasants, wild water fowl, deer, etc., in the world. 7-15-1f

RABBITS AND HARES.

FOR SALE—PEDIGREED Flemish Giants, Rufus Red Belgians, Checkered Giants, Albinoes, Grey Belgians. Satisfaction guaranteed. Belgian Yards, Poughkeepsie, N. Y. 5-7

BLACK SIBERIAN HARE — The most profitable fur-bearing animal. Send 25 cents for booklet and price list. Siberian Hare Co., Hamilton, Canada. 5-7

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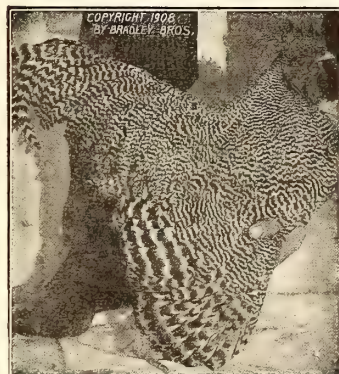
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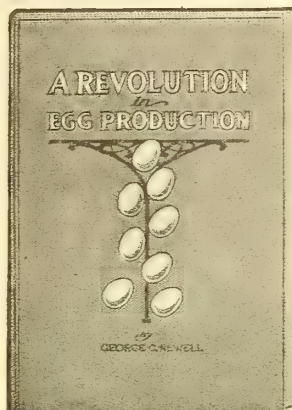
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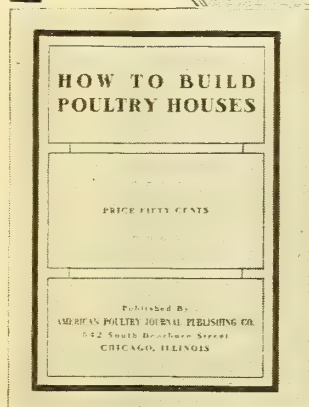
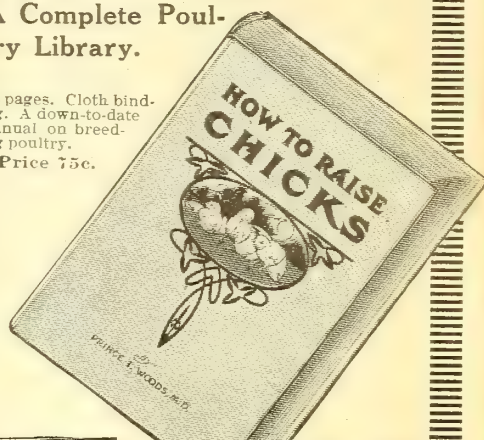


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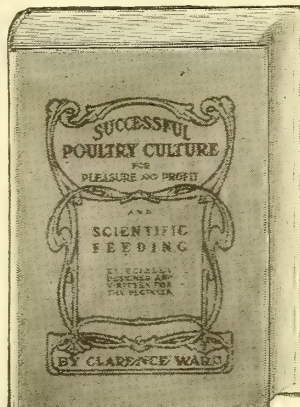
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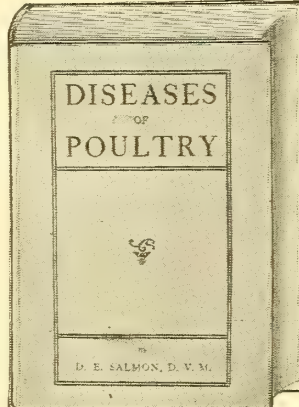
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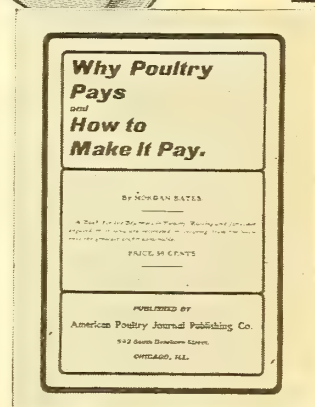
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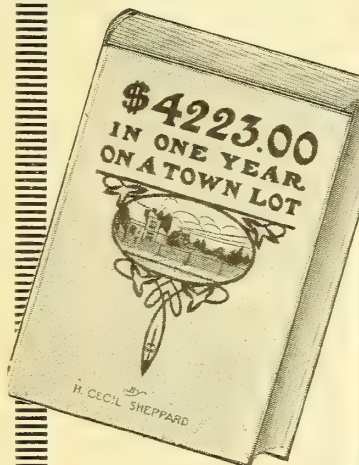


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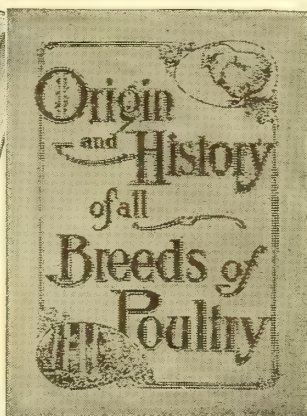


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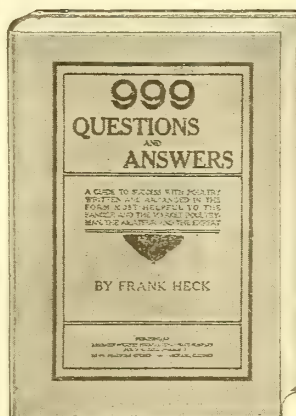
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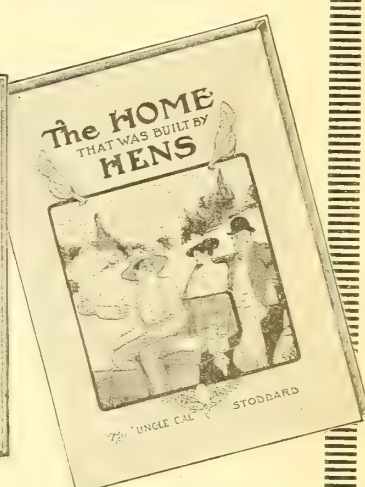
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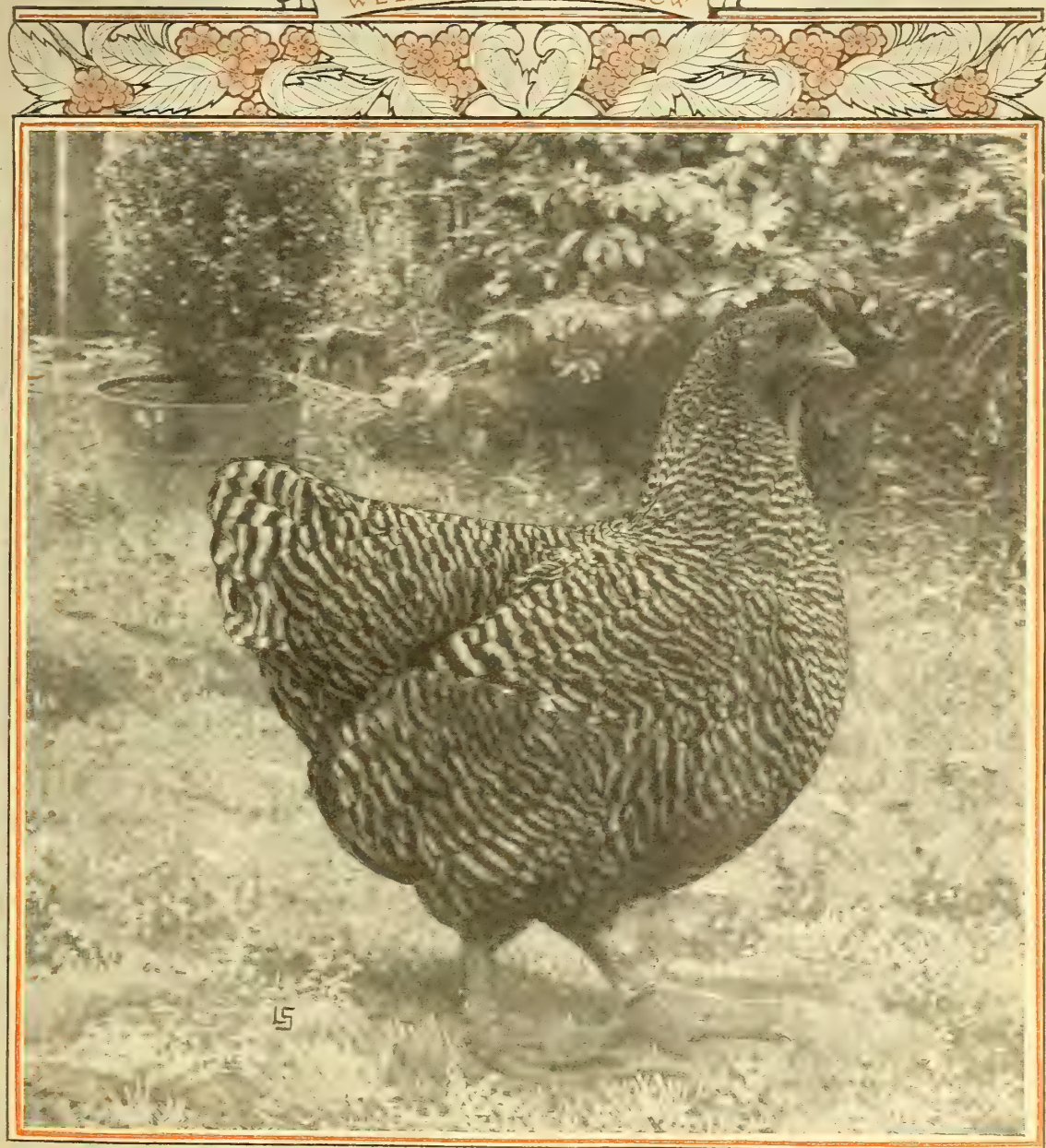
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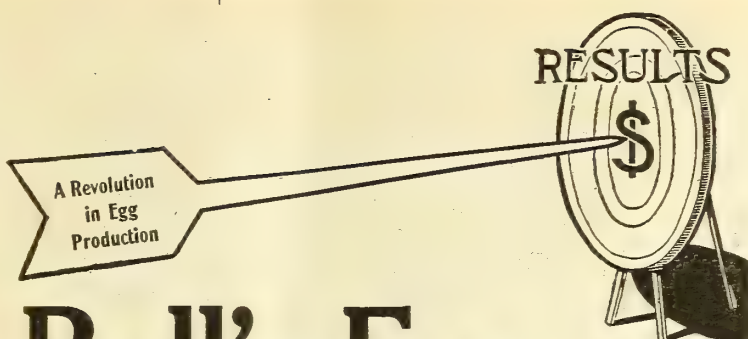
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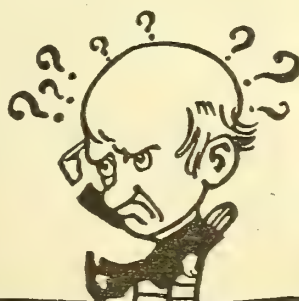
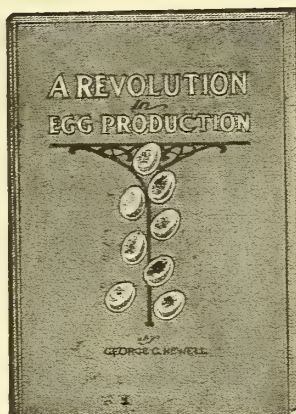
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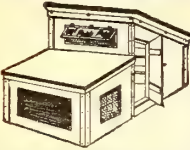


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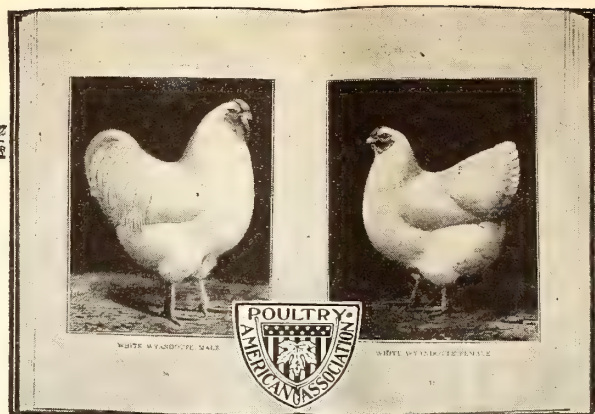
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TABLE OF CONTENTS

	PAGE
W. W. KULP—PIONEER POULTRYMAN.....	981
WHAT "UNCLE SAM" IS DOING FOR POULTRY.....	Prince T. Woods, M. D. 982
SEX CONTROL IN POULTRY BREEDING.....	Herb. E. Sharp 987
DUCK FARMING A PROFITABLE OCCUPATION.....	Earle William Gage, Ashville, N. Y. 991
THE SINGLE COMB RHODE ISLAND RED—WHY?.....	Maud E. Chase 995
EDITORIAL	996
Back Lot Poultry Threatened—Uncle Sam's Poultry Work—Prepare for Fall Fairs—Noteworthy Achievement—Look for Summer Bargains—Beef Scrap—Prospects—Our Cover.	
DR. WOODS' NOTES AND COMMENT.....	999
PROGRESSIVE ACTION OF POULTRY ASSOCIATION.....	999
RECENT INVENTIONS FOR POULTRYMEN.....	Lester L. Sargent 1006
HORTICULTURE FOR POULTRY KEEPERS.....	Thos. F. Rigg 1007
QUESTIONS AND ANSWERS.....	1014
READERS' EXPERIENCE DEPARTMENT.....	1021
HOME AND THE TABLE.....	Helen T. Woods 1024
WOMAN'S SUCCESS WITH POULTRY.....	1027
A CITY GIRL BECOMES A POULTRY KEEPER.....	Laura L. Thrash 1027
MONTHLY PRIZE CONTEST DEPARTMENT.....	1029
OUT OF THE EAST.....	P. K. White 1031
SEEN AND HEARD IN THE MID-WEST.....	Shepard Strong 1032
ASSOCIATIONS AND SHOWS.....	1033

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INDEX TO GUARANTEED ADVERTISERS

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"A" and "D" Mfg. Co., Chicago, Ill.....1028	Cudahy Packing Co., Chicago, Ill.....1024	Johnson, Frank, Chicago, Ill.....1032
Abbott, O. M., Whiteland, Ind.....1030	Curtiss, E. G., Atsion, N. J.....1029	Johnson Co., M. M., Clay Center, Nebr.....1026
Aldrich Poultry Farm, Columbus, O.....1002	Curtiss Co., W. R., Ransomville, N. Y.....1016	Kaup, F. A., Glen Ellyn, Ill.....1028
Allen Co., S. L., Philadelphia, Pa.....1011	Cyphers Incubator Co., Buffalo, N. Y.....1033	Keefer, C. A., Muskegon, Mich.....1031
Allentown Fair, Allentown, Pa.....1014	Darling & Co., Chicago, Ill.....1032	Keeler, Chas. V., Winamac, Ind.....1027
Almendinger, A. F., Buffalo, N. Y.....1031	Davis, M. C., Woodstock, Ill.....1031	Keipper Cooping Co., Milwaukee, Wis.....1010
Am. Poultry Advocate, Syracuse, N. Y.....1025	Dawdy & Dawdy, Greenville, Ill.....1010	Keller, Ira C., Prospect, Ohio.....1019
American Poultry Journal, Chicago, Ill.....1012-976-Inside back cover-975-977	Deege, Grover, Quincy, Ill.....1038	Kennedy, J. Fred N., Ont., Canada.....1032
Am. School of Poultry Husbandry, Mo.....1018	Deem's Buckeye Yards, Eaton, Ohio.....1026	Keyes-Davis Co., Battle Creek, Mich.....1016
Andrews, J. W., Dighton, Mass.....1031	Demberger, L. J., Stewartsville, Ind.....1023	Kitselman Bros., Muncie, Ind.....976
Andrews, S. H., Mineola, N. Y.....1038	Des Moines Inc. Co., Des Moines, Iowa.....976	Klein-Lambert Co., Chicago, Ill.....976
Andrews Co., O. B., Chattanooga, Tenn.....1039	Devoe's, Dodgeville, Wis.....1022	Korman's Cafe & Buffet Lunch, Ohio.....1033
Applegate Poultry Farm, Delavan, Wis.....1020	Doerhoefer, Lewes P., Anchorage, Ky.....1025	Kulp, W. W., Pottstown, Pa.....1004
Arcady Farm Milling Co., Rondout, Ill.....1025	Eakin, F. M., Bucyrus, Ohio.....1016	Lakewood Farms, Holland, Mich.....979
Astle, Milan C., Muncie, Ind.....1023	Elec. Specialty Co., Salt Lake City, Utah.....1020	Lange, J. G., Detroit, Mich.....1010
Atherton, W. B., Randolph, Mass.....1022	Elliott Poul. & Fruit Farm, Mansfield, O.....1016	Latham, C. H., Lancaster, Mass.....999
Atlas Company, Lincoln, N. J.....1016	Empire Poultry Assn., Mineola, N. Y.....1034	Lauver, C. M., McAlisterville, Pa.....1029
Automatic Trap Nest Co., Kenosha, Wis.....1016	Everfresh Egg Farm, Ionia, Mich.....1031	Lee Co., Geo. H., Omaha, Nebr.....1024
Balch & Brown, Manchester, Conn.....1018	Faha, Jr., Frank, Dyersville, Iowa.....979	Leitner, C. H., Elgin, Ill.....1000
Bales, J. S., Springfield, Ill.....1025	Felch, I. K., Natick, Mass.....976	Liberty Stove Co., Philadelphia, Pa.....979
Bail, W. J., Salem, Ohio.....1023	Fernbrook Farm, Albany, N. Y.....1026	Licene Co., Chicago, Ill.....1020
Banks, M. H., Dillsburg, Pa.....1028	Ferris, P. J., Cuyahoga Falls, Ohio.....1028	Liceoff Co., Green Bay, Wis.....1016
Barker, M. S., Thornton, Ind.....1020	Fishel & Son, J. C., Hope, Indiana.....1008	Lily White Poul. Farm, Saginaw, Mich.....1030
Barstow, Geo. N., Oneonta, N. Y.....980	Fishel, U. H., Hope, Indiana.....998	Lingeman, C., St. Louis, Mo.....1028
Bawden, John, Ridgetown, Ont., Can.....1010	Fogg, N. H., Mt. Sterling, Ky.....1029	Lo-Glo Elec. Incubator Co., New York.....1028
Bayerdorfer, M., Huguenot Park, N. Y.....1030	Fouche Mt. Poultry Farm, Arkansas.....1007	Longfield Poultry Farm, Bluffton, Ind.....1003
Beach, Geo. Watson, N. York City, N. Y.....1018	Foxhurst Farm, Lime Rock, Conn.....1026	Lord Farms, Methuen, Mass.....1026
Bear Brook Poultry Farm, Mass.....1031	Frantz, O. C., Rocky Ford, Colo.....1031	McClave, Chas., New London, Ohio.....1010
Belgian Hare, Holmes Park, Mo.....1022	Fraser, W. F., East Akron, Ohio.....1031	McConnell, J. V., Garden Grove, Calif.....1010
Bella Vista Farm, Kimmswick, Mo.....1016	French Co., R. T., Rochester, N. Y.....1004	McConnell, W. A., Richmond, Ill.....1010
Belle City Incubator Co., Racine, Wis.....1018	Friesner & Son, J. W., Bremen, Ohio.....1016	Mackey Farms, Gilboa, N. Y.....1025
Beherich, Rev. W., Groton, N. Y.....1022	Fulton Novelty Co., Fulton, N. Y.....1021	Mahon, Elton C., Norwood, Tenn.....1020
Besse, C. W., Jefferson, Me.....1028	Gamewell, J. A., Little Silver, N. J.....1012	Mann Co., F. W., Milford, Mass.....1025
Beuoy, Geo., Cedar Vale, Kansas.....1014	Garbutt, Cora B., Darien, Wis.....1031	Martin, Mrs. E. B., Downey, Calif.....1021
Bird Bros., Meyersdale, Pa.....1002	Gassmann, Henry, Olney, Ill.....1029	Martin, John S., Port Dover, Ont., Can.....1000
Blatchford's Calf Meal Fcty., Ill.....1025-1031	Gensch, F. M., Omro, Wis.....1004	Martz & Son, A. E., Arcadia, Ind.....998
Bloese, Aug., Chicago, Ill.....1031	Geneser Bros., Cerston, Ohio.....1019	Mazelin, Jos., Berne, Ind.....1032
Blum, Barbara, New Washington, O.....1022	Gerber, G. J., Dalton, Ohio.....1023	Meadow Lark Farm, Elgin, Ill.....1021
Blum, Frank, New Washington, O.....1023	Gilbert Poultry Farm, Haverhill, Mass.....1029	Meadow Lawn Poul. Yds., Michigan.....1004
Bock, Oscar L., Council Bluffs, Iowa.....1019	Globe Elevator Co., Buffalo, N. Y.....1030	Merchants Drug Company Easton, Md.....1012
Bourne Mfg. Co., Melrose, Mass.....1022	Glory-Anna Poultry Yds., Louisville, Ky.....1016	Merrell, Arthur, Solon Mills, Ill.....1016
Bradley Bros., Lee, Mass.....1038	Goddard & Sons, W. H., Muncie, Ind.....979	Metzger Mfg. Co., Quincy, Ill.....1008
Brogden, Thos., Rush Lake, Wis.....1028	Gordon, Jessie F., Spring Valley, Minn.....1021	Minch, Philip J., Cleveland, Ohio.....1026
Brown Fence & Wire Co., Cleveland, O.....1018	Grant, John, Richmond, Ill.....1016	Mirimichi Poultry Farms, Foxboro, Mass.....980
Brown, John L., Anderson, Ind.....1019	Grove Hill Poul. Yds., Waltham, Mass.....1026	Mittendorf O. F., Lincoln, Ill.....1013
Bruorton, M. M., Wakefield, Mass.....1016	Halbach, H. W., Watford, Wis.....1001	Model Incubator Co., Buffalo, N. Y.....1025
Buckeye Incubator Co., Springfield, O.....1006	Hales & Edwards Co., Ill. Inside front cover	Monmouth Farms, Freeau, N. J.....979
Buell, Mrs. L. R., Lake Geneva, Wis.....1028	Hanover Fair, Hanover, Pa.....977	Moore, R. H., Nellie, Ohio.....1026
Burdin, S. K., Toronto, Ont., Can.....1005	Harbin, Edmond J., Riverside, Ill.....1030	Morris Poultry Farm, Lebanon, Ohio.....1004
Cadwallader, T. Salem, Ohio.....1031	Harnly, Mrs. J. H., Zion City, Ill.....1007	Morse's White Leghorn Farm, Mich.....1010
Cairngorm Farm, Nottingham, Ohio.....1030	Hayward, W. F., Westboro, Mass.....1032	Mountville Farm, Mountville, Va.....1016
Candee Incubator & Brooder Co., N. Y.....1009	Haywood Tire & Equipmt. Co., Indiana.....1023	Muskwadosa Stock Farm, Pembine, Wis.....1004
Carbola Chemical Co., N. York City, N. Y.....1005	Heasley, Dr. L. E., Holland, Mich.....1014	Myers, C. Guy, Siddonsburg, Pa.....1019
Carbolineum Wood Preserving Co., Wis.....1025	Henderson, W. W., Bridgeton, Mo.....1022	Myers, C. N., Hanover, Pa.....999
Carl, E. G., Shreve, Ohio.....1004	Hering, Frank E., South Bend, Ind.....1017	Myers, Frank, Freeport, Ill.....976
Carpenter, W. W., East Providence, R. I.....1026	Hess & Clark, Ashland, Ohio.....1028	National Crate Co., Brooklyn, N. Y.....1007
Carr Bros., Vineland, N. J.....1019	Hewes, Theo., Indianapolis, Indiana.....1039	National Poultry Band Co., Newport, Ky.....1038
Carter's Poultry Farm, Jonesdale, Wis.....1031	H. I. Company, Salem, Va.....1012	Natural Hen Incubator Co., California.....1025
Carver, A. A., Seville, Ohio.....999	H. O. Company, Buffalo, N. Y.....1016	Nelson, Walter P., Bayone, N. J.....1031
Cherrycroft Farm, Omaha, Nebr.....1030	Hodgson Co., E. F., Boston, Mass.....1003	Neusitz Co., W. A., St. Louis, Mo.....1018
Chicago & Alton R. R., Chicago, Ill.....1010	Hof Brau, The, Cleveland, Ohio.....1034	Newell & Gordinier, Troy, N. Y.....1008
Chiles & Company, Mt. Sterling, Ky.....976	Hollenden Hotel, The, Cleveland, Ohio.....1034	Newtown Giant Inc. Co., Harrison's g, Va.....1013
Clark Co., Newton, Mass.....1007	Holtermann, W. D., Fort Wayne, Ind.....1002	Niemann Bros. Mfg. Co., Mt. Olive, Ill.....1028
Cleveland Hatchery, Cleveland, Ohio.....1016	Homestead Campine Fm., Way'd, Mass.....1012	Nixon, Chas., Washington, N. J.....1032
Coburn's Red Sussex Farms, Michigan.....1008	Hooker, Henrietta E., S. Hadley, Mass.....1022	Norwich Auto Feeder Co., Conn.....1018
Cole, Frank C., Van Wert, Ohio.....1022	Houston & Hofius, S. Charleston, Ohio.....1028	Novak Poultry Farm, Racine, Wis.....1030
Collins, W. H., New York City, N. Y.....1018	Howison, Chas., Sandwich, Ill.....1016	Nye, C. C., Harristown, Ill.....1010
Conkey Co., G. E., Cleveland, Ohio.....1011	Hubbard, C. H., Lime Rock, Conn.....1016	Oakes Mfg. Co., Tipton, Ind.....1019
Conrad, E. K., Hackensack, N. J.....1029	Hummel, S. A., Freeport, Ill.....1031	Ohio Marble Co., Fiqua, Ohio.....1011
Cook, L. Oakville, Iowa.....976	Illinois State Fair, Springfield, Ill.....1005	O. K. Co., New York City, N. Y.....1020
Cooke, Geo., Racine, Wis.....1030	International Glue Co., Boston, Mass.....1005	Old Forge Poul. Farm, Spring Grove Pa.....1014
Co-Op. Breeding & Hatch. Co., Tiro, O.....1019	Ironclad Incubator Co., Racine, Wis.....1025	Olle, P. J., Racine, Wis.....1010
Cornell Co. Great Barrington, Mass.....1011	Ives, Ives & Ives, Guilford, Conn.....1032	Orchard Farm, Noroton Heights, Conn.....1030
Corning Egg Farm, Bound Brook, N. J.....1020	Jacobus, M. R., Ridgefield, N. J.....1026	Owen Farms, Vineyard Haven, Mass.....980
Corn Products Refg. Co., New York.....1027	Jensen, Carl J., Waukegan, Ill.....1016	Pabst Stock Farm, Oconomowoc, Wis.....1007
Crane, Chas. M., Elkhorn, Wis.....1027		Pagel, Fred, Rockford, Ill.....1010
Cross, Frank, Montague, Mass.....1016		
Crotser, E. A., Fulton, Mich.....1029		



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Parke, Davis & Co., Detroit, Mich.	1011
Parks, J. W., Altoona, Pa.	1008
Pasteur Laboratories of America, N. Y.	1025
Peerless Hatchery, Chicago, Ill.	1022
Pennington, J. S., Plainfield, Ill.	1004
Pennsylvania Poul. Farm, Lancaster, Pa.	1026
Perfection Poul. House Co., Ill.	1032
Perry, Louis H., Clay, N. Y.	1030
Philo, E. W., Elmira, N. Y.	1028
Pilling & Son Co., Philadelphia, Pa.	1026
Pittsfield Poultry Farms Co., Mass.	1038
Platt, F. L., Swanton, Ohio.	998
Plymouth Rock Squab Co., Mass.	1031
Poorman, John G., Tinley Park, Ill.	980
Pope & Pope, Louisville, Ky.	1024
Porter, A. B., La Salle, Ill.	1020
Potter & Co., Downers Grove, Ill.	1018
Pottinger, Joseph, Peru, Ill.	1028
Powers, J. H., Chicago, Ill.	1004
Prairie State Inc. Co., Homer City, Pa.	1018
Pratt Food Co., Philadelphia, Pa.	1029
Process Mfg. Co., Salina, Kans.	1016
Progressive Incubator Co., Racine, Wis.	1011
Purina Mills, St. Louis, Mo.	1020
Puritan Lunch Co., Cleveland, Ohio.	1034
Putnam, I., Elmira, N. Y.	1031
Quaker Oats Co., Chicago, Ill.	1023
Queen Incubator Co., Lincoln, Nebr.	1038
Quincy Poultry Farms, Quincy, Ill.	1029
Rathskeller, The, Cleveland, Ohio.	1034
Rau, Fred, Indianapolis, Ind.	1022
Ravnsley-Shields Poultry Farm, Ohio.	1019
Read, W. E., Maywood, Ill.	1030
Read Poultry Farm, Watervliet, N. Y.	1023
Red Feather Farm Rhode Island.	977
Reed, Mrs. Hattie D., Marcellus, N. Y.	1016
Reliable Incubator & Brooder Co., Ill.	976
Reliable Poultry Journal, Quincy, Ill.	1028
Reliance Incubator Co., Freeport, Ill.	1031
Riley, H. J., Bryan, Ohio.	1026
Rippley Mfg. Co., Grafton, Ill.	1018
Rockford Poul. Sup. Co., Rockford, Ill.	1031
Rock Ledge Farm, Southboro, Mass.	1012
Rockwood Farm, Norwalk, Ohio.	1020
Rosedale Egg Farm, Port Huron, Mich.	1019
Rosemount Farms, Franklin, Pa.	1039
Rudy, Geo. H., Mattoon, Ill.	1032
Ruf, Fred A., Crown Point, Ind.	1028
Sanborn, Dr. N. W., Holden, Mass.	1026
Sanford, Geo. P., Wheaton, Ill.	1030
Sargent, Lester L., Washington, D. C.	1006
Schabell, John, Chicago, Ill.	1004
Schultz, W. F., Cuyahoga Falls, Ohio.	1004
Schwalbe-Smith Co., Elmhurst, Ill.	977
Scranton, B. H., Rising Sun, Ind.	1031
Sears, Howard O., Garden Prairie, Ill.	1032
Sefton Mfg. Co., Chicago, Ill.	1022
Seward, R. M., Lewistown, Ill.	1028
Sharp, Herb. E., Spokane, Wash.	1004
Sheer Co., H. M., Quincy, Ill.	1023
Sheffield Farm, Glendale, Ohio.	1003
Sheppard, H. Cecil, Berea, Ohio.	975
Shoemaker, C. C., Freeport, Ill.	1029
Shoenhard, G. H., Freeport, Ill.	1010
Simmonds, Chas. A., Camp Point, Ill.	1034
Simplex Supply House, Ill.	1010-1020-1025
Sixt, H. C. & C. W., West Park, Ohio.	1029
Smith, Eugene C., Aurora, Ill.	999
Smith, F. S., Hamilton, Ohio.	1019
Smith Specialty Co., Mansfield, Ohio.	1032
Somers, J. O., Bedford, Ohio.	976
Spahr, Albert G., Xenia, Ohio.	1038
Spencer, John G., Sharpsburg, Pa.	1019
Spiller, A. P., Beverly, Mass.	1020
Sprague, P. H., Maywood, Ill.	1038
Sprecher Bros., Rohrerstown, Pa.	1022
Stahmer, Louis A., Chicago, Ill.	1037
Starks, M. L., Starks, Wis.	1022
Stiarwait, John, Decatur, Ill.	1030
Stiles, Chas. L., Columbus, Ohio.	1011-1018
Stratton Mfg. Co., Erie, Pa.	1011
Struble, Z. D., Bascom, Ohio.	1023

Sturman, Grant, Mt. Carmel, Ill.	1026
Sunlight Poultry Fm., Lynchburg, Ohio.	979
Sunnyside Poultry Farm, Bristol, Vt.	980
Sunset Poultry Yds., Olneyville, R. I.	1026
Sunswick, Poul. Fm., S. Plainfield, N. J.	1024
Tarbox, A. & E., Yorkville, Ill.	1007
Taylor, Geo., Urbana, Ill.	1029
Taylor Instrument Co., Rochester, N. Y.	1031
Tenacre Poultry Farm, Princeton, N. J.	1032
The 1733 Ranch, Kearney, Nebr.	1015
Thompson, E. B., Amenia, N. Y.	Back cover
Thompson & Co., E. A., Detroit, Mich.	1004
Tiffin Poul. Farms & Hatchery, Ohio.	1004
Tompkins, Harold, Concord, Mass.	1019
Tremper, S. N., Sandwich, Ill.	1022
Trethaway, Arthur, Wilkes-Barre, Pa.	1025
United Brooder Co., Trenton, N. J.	1026
Urban Farms, Buffalo, N. Y.	1010
Walker, G. A., Polo, Ill.	1031
Ward, Jr., John W., Pennington, N. J.	1016
Ward, R. W., Normal, Ill.	1006
Ward, W. H., Nickerson, Kansas.	1031
Watson Mfg. Co., Lancaster, Pa.	1022
Waugh, M. H., Peoria, Ill.	1016
Wellcome, F. O., Yarmouth, Maine.	1032
Wendell Incubator Co., Holly, Mich.	1018

Whatglen Farm, Lancaster, Pa.	978
White City Egg Farm, Seville, Ohio.	1028
White Wyandotte Poultry Yds., Mass.	1027
Wiebke, W. H., Fort Wayne, Ind.	1006
Wilburtha Poul. Fms., Trenton Jct., N. J.	1020
Williams, A. C., Ravenna, Ohio.	1032
Willow Tree Poultry Farm, Mass.	1020
Wilson Bros., Easton, Pa.	1025
Witte, Ed. H., Kansas City, Mo.	1006
Wolf, Mrs. John, Merrifield, N. Dak.	1030
Woods, H. M., Carlville, Ill.	1028
Woodward, Ralph, Grafton, Mass.	1028
Woolery Farm, Bloomington, Ind.	1010
Wyckoff Son, C. H., Aurora, N. Y.	1003

X-Ray Incubator Co., Des Moines, Iowa 1011
 Yesterlaid Egg Farms Co., Pacific, Mo. 1023
 Young, D. W., Monroe, N. Y. 1002
 Young Co., E. C., Randolph, Mass. 976

20th Cent'y Hatchery, New Wash., Ohio. 1003

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In the Brooder and Colony Houses

The "Ideal" Ventilator, automatic in operation, requires no attention. Opens and closes whenever the temperature needs adjusting; noon or midnight. Prevents overheating and avoids chilling draughts from open windows. Eliminating brooder troubles, makes more healthy chicks. Prevents crowding. Adapted for every type of poultry house or any brooding system. Releases the foul air in Barns, Stables, Garages, etc. Price \$4.50. Parcel Post or Express, prepaid. Satisfaction guaranteed or money refunded. Mail orders solicited.

LIBERTY STOVE COMPANY

102 South Third Street

Philadelphia, Pennsylvania

Bargain Birds

You'll find some real bargains among our yearlings and two-year olds. Both males and females. Breeding birds of quality that could not have been purchased at any price a few weeks ago. Now offered at attractive prices in order to make room for new stock.

S. C. LEGHORNS S. C. Buff White

"The Twentieth Century Dual Purpose Fowl"

We also have a grand collection of young stock in both varieties—some already fully matured. Book orders new for Show Birds and get into the winning class at the early shows.

Write at Once for Special List and Prices.

Watts Bros., Owners
 John Lockwood, Supt.

Monmouth Farms

Box 23
 Freneau, New Jersey

LAYERS or SHOW BIRDS

We can supply you birds that cannot be excelled for type, color, or as egg producers. Our birds have free range on a 300 acre orchard, meaning sturdy, vigorous fowls; 265 trap-nests in operation, so we know what these birds will do. Wh. Wyandottes and S. C. Wh. Leghorns. Baby Chicks and Eggs for hatching. Strains established 1906.

LAKEWOOD FARM, HOLLAND, MICHIGAN

BARRED PLYMOUTH ROCKS

EVERY BIRD AT A LOW PRICE TO CLOSE OUT.

W. H. GODDARD & SONS

Orchard Place

RIVERSIDE, MUNCIE, IND.

"SUNLIGHT" POULTRY FARM S.C.W. LEGHORNS

Greatest Known Layers. Young Strain.

Reduced Prices on Breeding Stock

THE Hatching Season is over for this year and I will offer a large lot of my breeding stock at prices that will surprise you, while they last. I have a large number of youngsters coming on and consequently will have to have the room for them. Here is your chance to get some fine breeders and layers at reduced prices. Also have a nice bunch of early hatched cockerels to offer at very reasonable prices. Let me have your order for some of the birds; it will receive my careful attention, prompt shipment, and your approval. Write me your wants. Catalog free.

SUNLIGHT POULTRY FARM - E. N. LEMON, Owner - Lynchburg, Ohio





"Lady Alfarata," 301 Eggs

Stock, Eggs or Baby Chicks

from my improved Laying Strains of

S. C. and R. C. Rhode Island Reds
White and Barred Plym. Rocks
White and Buff Orpingtons
White Wyandottes
White Leghorns

and your careful attention means your success. This is your opportunity to procure a start from strains that have given entire satisfaction to over 4,500 customers in this and foreign countries.

Summer Prices

Grade A Eggs...20c	Grade A Chicks...30c
Grade B Eggs...12c	Grade B Chicks...20c
Grade C Eggs...6c	Grade C Chicks...12c

My guarantee on eggs and chicks during this special sale is arrival of eggs in good hatching condition, and the arrival of chicks in perfect health. Have your express agent give you a statement describing condition of eggs or chicks if received otherwise than as above guaranteed. Can make immediate shipment of eggs. Can usually ship chicks within 5 days after receipt of order.

Special Stock Sale

In all my breeds I have some exceptionally good breeders (hens and cocks) to offer for the first time. This is stock that I would not sell during the past four months. It is the stock that has produced the eggs and chicks for over 4,500 satisfied customers. My regular prices are very reasonable. This sale gives you the opportunity of buying real layers, a foundation for your future success. I have some very good cockerels and pullets growing nicely. You may want some of them. Advise me of your wants. I will be pleased to quote your prices on same for late summer and early fall delivery. Do not overlook the advantage of booking your order now. It means a reserved selection and mutual benefits.

Write for my instructive illustrated catalog. It has helped others and will undoubtedly help you.

JOHN G. POORMAN

Box 100 Tinley Park, Illinois, U. S. A.

10 to 12 WEEKS Pullets and Cockerels

out of my "trap-nest" stock, 200 to 249 eggs record. Aug. delivery. Order at once. Sales exceed all former years.

RECORD YEARLINGS

Aug. delivery. Out of my best pens. Low for quality breeders. \$5 values at \$2 to \$3; a few for less.

BABY CHICKS out of this stock, \$15 to \$20 per 100, August delivery.

Barred, Buff and White Rocks, Reds, Wyandottes, Orpingtons, Leghorns. Catalog.

SUNNYSIDE POULTRY FARM
Box 1002 Bristol, Vt.

Owen Farms

SPECIAL SALE OF ADULT

Buff and White Orpingtons
S. C. Rhode Island Reds
White Plymouth Rocks
White Wyandottes and
S. C. White Leghorns

CLOSES AUGUST THIRTY-FIRST

Scores of customers look forward to this sale as being their opportunity to secure Breeding Stock for the following season of a higher quality than their money will buy at any other time of the year.

You can buy one and two-year old males and females for just half the price the same birds would have cost you prior to the breeding season. You can buy part of my birds of any quality from the highest to the lowest; so you have a wide range of prices and can secure just the quality you desire. Birds that will WIN FOR YOU next winter and birds that will BREED YOU WINNERS.

You know about OWEN FARMS AND ITS BIRDS. If you have not seen the NEW CATALOG you have a real treat in store when you send for it and read it. You will appreciate the importance to yourself of basing your future success on OWEN FARMS ESTABLISHED LINE-BRED STRAINS.

Madison Square Garden Winners

393 OWEN FARMS BIRDS have won FIRST PRIZES at MADISON SQUARE GARDEN, NEW YORK, as far as competition from other breeders is concerned. NO SIMILAR RECORD HAS BEEN MADE BY THE BIRDS OF ANY OTHER BREEDER IN ALL THE WORLD.

1916 YOUNGSTERS

You can buy OWEN FARMS EARLY COCKERELS and PULLETS for your FALL FAIRS at very moderate prices and MAKE YOUR WINNING CERTAIN. My early January pullets commenced laying May 29th, so, as you can see, my youngsters will be mature for you. Will only raise the cream of my early cockerels, and can give you SURE WINNERS for your FAIR from these SELECTED BIRDS. Tell me about your competition and let me quote you.

MY NEW CATALOG

You will find in this profusely illustrated 56-page book, complete descriptions of MY FARMS, FLOCKS, WONDERFUL WINNINGS, UNEXCELLED UTILITY QUALITIES, etc. A careful reading of this book will make you an Owen Farms customer. The results you will obtain from stock or eggs will make you my permanent customer.

OWEN FARMS

107 William Street,
VINEYARD HAVEN, MASS.

MAURICE F. DELANO, Prop. FRANK H. DAVEY, Supt.

Barstow's Anconas

Bred for heavy winter egg production as well as exhibition qualities. Trap-nested stock. Greatest egg record 284. Winners of the blue at New York, Allentown, Pa., N. Y. State Fair, Syracuse, and Hagerstown, Md.

Chix, stock and eggs from these large dark birds. Catalog free.

GEO. N. BARSTOW, Box A, Oneonta, N. Y.

New York State Vice-President United Ancona Club

A Fancier's Pride in His Work

Year by year, as our business has grown, we have discovered new and better methods of breeding, mating, feeding and housing. The four factors that go towards making blue ribbon winners. We want you to know all about "Mirimichi Quality," about our wonderful winnings at the World's Fair, New York, Boston and other shows, so we have prepared a catalog that gives you an insight into our "Quality." S. C. Rhode Island Reds, White Rocks and White Wyandottes. This book is free, so write for it today.

Breeders of Birds that Win, Lay and Pay

MIRIMICHI POULTRY FARM

W. H. Saart, Box 100, FOXBORO, MASS.

AMERICAN POULTRY JOURNAL



VOL. XLVII No. 8

AUGUST, 1916

W. W. KULP—PIONEER POULTRYMAN

W. W. KULP, Pottstown, Pa., was born in 1861 near his present home. After attending Juniata College he taught school for two years, when his health failed in 1884 and he returned to the home farm to take charge of the poultry under an agreement with his father. He worked under this agreement for ten years, all the while starting flocks of standard-bred Rose and Single Comb Brown and White Leghorns, Barred Plymouth Rocks and White Wyandottes. He began advertising poultry in 1885

and exhibited first at Philadelphia in 1891, winning eleven prizes on ten entries. In 1892 he married, bought out his father's farm and established his home there. From then on he began to push exhibiting and advertising his varieties of standard-bred poultry. He does an extensive business in this country and as an exporter. Good-sized birds for the variety and large eggs with a good yield are always in demand, and Mr. Kulp says: "It pays to breed what the people want, and I always try to do it."



United States Dept. of Agriculture poultry exhibit at Madison Sq. Garden, New York City, December 1915 and January 1916.

What "Uncle Sam" Is Doing for Poultry

Effective Organization of Girls and Boys for Helpful, Useful and Interesting Home Work and Promotion of Pure Bred Poultry Interests. *By Prince T. Woods, M. D.*



OUR "UNCLE SAM" comes in for a good deal of criticism, some of it just and some unjust, for this is a country of free speech and it is easy to criticize,—particularly so when the responsibility rests very lightly, if at all, on the shoulders of the critics. On numerous occasions "Uncle Sam" has been criticized because he was assumed to be doing so much for farm animals and so little for the children, who are to be our future citizens and who stand in need of much practical education to fit them for efficient and useful citizenship.

Without discussion or further comment on the plaint of the critics, we propose to tell our readers a little about the work our "Uncle Sam" is quietly doing for our girls and boys, helping them to help themselves, but chiefly as it affects poultry interests.

Government work thrives only when it is met with real appreciation and effective co-operation on the part of the People, for in reality the People, the Country and the Government are *one*. For a long time the United States Department of Agriculture, in the employ of the People, has been endeavoring to find a way to keep the girls and boys at home on the farm, to interest them in home work and to better conditions of farm life, as well as to improve the farms and increase their productiveness. It has been slow work, necessarily quiet work, and work which, for obvious reasons, had to be promoted with tact and discretion. Before one criticizes this work he should consider that the amount and quality of work an employee turns out, and the speed with which he accomplishes his task, depends in very large measure upon the attitude, the interest and co-operation of the employer,—and in this case *you*, Friend Reader, are the employer.

Girls' and Boys' Corn Clubs were organized thru the efforts of agents of the Department of Agriculture. As these proved successful, Canning Clubs and other clubs followed.

When Pig Clubs began to grow the elders developed a more lively interest. Then came the organization of Poultry Clubs and it is of these particularly that we wish to tell our readers.

Late in June we spent the greater part of a week in Washington, D. C., as the guest of Harry M. Lamon, Senior Animal Husbandman in charge of Poultry Investigations, Animal Husbandry Division, Bureau of Animal Husbandry, United States Department of Agriculture. That is a long title but we thought we would give it all here in case any of our readers want to write to Mr. Lamon for further information about Girls' and Boys' Poultry Clubs and the work "Uncle Sam" is doing for more and better poultry. He already has a big army of correspondents, but we know he will welcome more, and he is right on deck with a great store of useful poultry information which is freely given to all citizens for the promotion of pure-bred poultry interests. We had a very interesting, instructive and pleasant visit with our "Uncle Sam's" poultry investigators and we brought home a considerable amount of material and many photographs, which will require several articles to present, so that this may be considered the first of a series on "What 'Uncle Sam' Is Doing for Poultry." Of course we spent a day at the Government poultry farm at Beltsville, Maryland, but that story will have to be told in another chapter,—this one has to do with the Poultry Club work, which is a big work, a worthy one, and is benefitting many girls and boys and encouraging them to engage in wholesome helpful work at home.

The Chief of the Animal Husbandry Division is George M. Rommel, a man of wide experience, who has a keen interest in farm animals, the betterment of farm conditions, increased productiveness, and the keeping of girls and boys at home on our farms, with better opportunities and greater incentive to become producers. He is taking an active interest in pure-bred poultry, "bred to a written standard," as a valuable farm asset both as moderate cost food for the home and as a source of increase in income for the farmer and his family. All poultry club work is conducted in this

division and all practical experimental work in poultry husbandry; mating, breeding, housing, feeding, care and management, hatching, rearing, etc., which are all included in the "Poultry Investigations" branch of this division, in charge of Harry M. Lamon and his associates; Alfred R. Lee, Robert R. Slocum and Joseph W. Kinghorn.

The Girls' and Boys' Poultry Club work was first started in Virginia in 1912 and, as with all new projects, was handled as an experiment during the first year. It was necessary to formulate new methods of procedure to fit practical and existing conditions. The attitude of the people and the manner in which suggested methods were met had to be carefully studied and observed. At the close of 1913 the project was not only found to be practical in accomplishing its principal object,—to improve farm poultry and farm poultry methods, but it could be clearly seen in practically every instance that the children, as well as the older people, realized the importance of the work and, so far as local conditions permitted, followed the methods and suggestions outlined by the U. S. Department of Agriculture. As a result of this apparent success, the Poultry Club work was extended during 1914 to five other Southern states,—Georgia, Kentucky, North Carolina, South Carolina and Tennessee. In 1916 Oklahoma was added. In taking up the work in these states the object was to start the poultry instruction where there existed the greatest need for it. The results have been very satisfactory and everywhere great interest is being shown by children and parents in the Poultry Club work. Member-

RELATIVE LOSS OF FERTILE vs. INFERTILE EGGS.

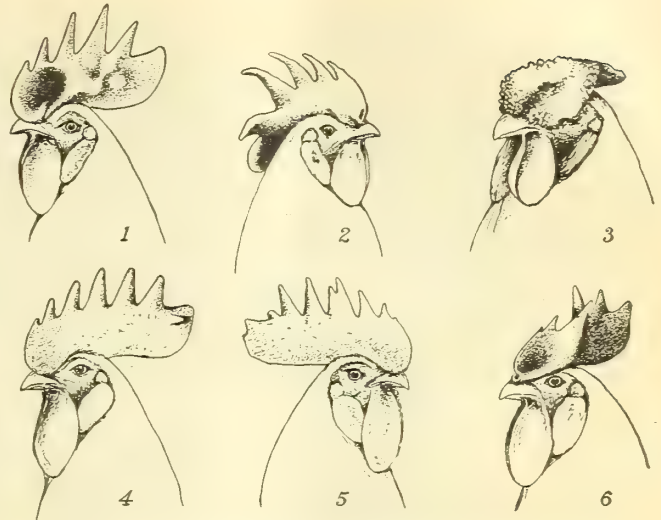
FERTILE EGGS	ON THE FARM.....	29.0%
	AT COUNTRY STORE.....	7.1%
	TRANSPORTATION TO PACKING HOUSE.....	6.4%
	TOTAL.....	42.5%
INFERTILE EGGS	ON THE FARM.....	15.5%
	AT COUNTRY STORE.....	4.0%
	TRANSPORTATION TO PACKING HOUSE.....	4.7%
	TOTAL.....	24.2%

Poster used by U. S. Dept of Agriculture in Poultry Instruction work.

ship has greatly increased. The figures for 1916 are not yet available for publication, but from the records shown us, we believe that the "Poultry Investigations" branch of "Uncle Sam's" Dept. of Agriculture can show one of the largest, most helpful and useful, practical, educational organizations for the promotion of legitimate poultry interests that is now in existence.

Poultry Club results for 1915 show organization in six states, including ninety-nine counties. 351 Girls' and Boys' Poultry Clubs were organized, giving a total membership of 3,922. The members of these clubs set 23,227 eggs, hatched 16,941 chicks and raised 13,745 of them. 2,969 pounds of chickens were sold for \$822.96. Average price per pound 27.7 cents. 248 head of breeding stock were sold for \$475.87. 1607.5 dozen eggs were sold for \$429.34 at market prices. 155.6 sittings were sold for \$92.59. Value of stock on hand owned by club members January 1, 1916, was \$7,331.81, and value of equipment was \$2,094.19. During 1915 forty exhibitions were held by club members; 3,322 fowls were shown; 151 dozen eggs were exhibited; cash prize awards amounted to \$1,476.74. When the figures for 1916 are published we believe that a very considerable increase will be shown.

At the present time the state organization work of poultry clubs is locally conducted by the following agents of the U. S. Dept. of Agriculture: Virginia, N. E. B. Talcott, Burkeville, Va.; North Carolina, A. G. Oliver, West Raleigh, N. C.; South Carolina, C. C. Cleveland, Rock Hill, S. C.; Georgia, D. J. Taylor, Athens, Ga.; Tennessee, R. N. Crane, Knoxville, Tenn.; Kentucky, A. S. Chapin, Lexington, Ky.; Oklahoma, H. Embleton, Stillwater, Okla. It is expected that the work will soon be extended to other states. At regular periods the State Agents are brought to Washington and given a thoro course of instruction and practical demon-



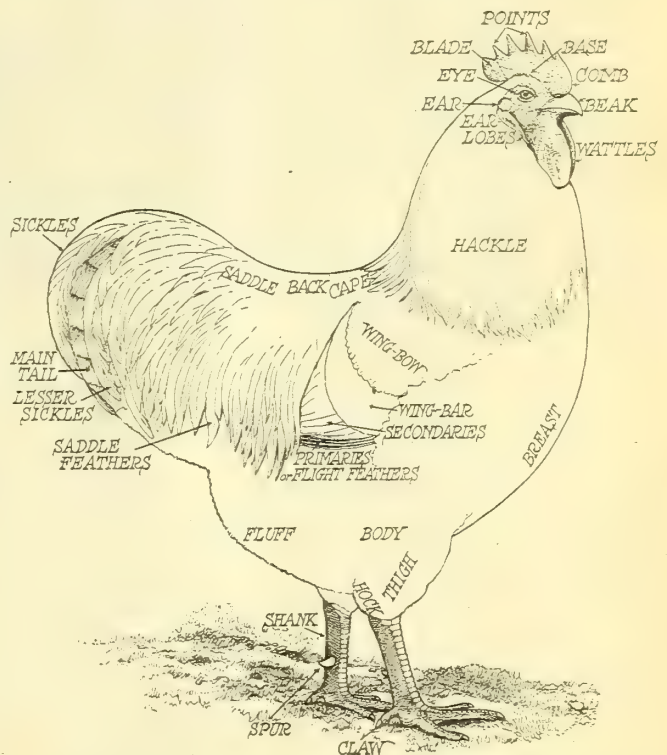
MALE HEADS SHOWING DEFECTIVE COMBS.

- 1 THUMB MARK. 2 LOPPED (SINGLE) 3 HOLLOW CENTER.
4 SIDE SPRIG 5 UNEVEN SERRATIONS 6 TWISTED.

Chart used in Poultry Instruction work by U. S. Dept. of Agriculture.

stration work at the Government Experimental Farm. Effective team work is encouraged.

State Agents make regular weekly reports of Poultry Club work to the U. S. Department of Agriculture and these reports are very complete including, points visited, miles traveled, letters written, lectures given, subjects discussed, extent and interest in poultry in counties visited, market conditions, prospects of next year for organizing, members' homes visited for home instruction, nature of work done, farms and poultry plants visited with report of results, demonstrations given, attendance at lectures and make up of audiences, other meetings attended, clubs organized, members secured, member's reports received, club exhibits made, community breeding associations organized, articles published in local press, circulars distributed, names of schools where poultry work is being conducted, poultry houses planned and



Poultry Instruction chart of U. S. Dept. of Agriculture used by poultry club agents in their work. See "What 'Uncle Sam' Is Doing for Poultry."



"WHAT 'UNCLE SAM' IS DOING FOR POULTRY."

Top—Egg exhibit of the Girls' and Boys' Poultry Clubs at Raleigh, North Carolina. Bottom—Poultry exhibit at State Fair, Georgia.

building, extent to which pure-bred stock and eggs are being distributed, experiences and suggestions for promoting the poultry work. We had the pleasure of reading a number of these weekly reports and we found them very interesting, and to the Department they will undoubtedly prove a source of much valuable poultry data as well as a means of keeping in close touch with the work of the State Agents.

The State Agent not only organizes poultry clubs, but he visits schools and encourages interest in poultry work, gives home instruction in poultry keeping, investigates and reports matters of poultry interest and he is supplied with material for interesting and practical poultry lectures. The Department of Agriculture furnishes a fine line of lantern slides, charts, poultry data and poultry moving picture films which are loaned for instruction work. Available for use of each agent are many blue prints of poultry house plans and practical poultry equipment and a wonderfully fine collection of

poultry photographs, including some remarkable feather plates. Agents also receive practical instruction in the comparative study of the standards of the several popular pure-bred varieties of poultry and are prepared to interest and instruct local public school teachers in teaching poultry husbandry. Wherever possible an effort is made to interest the teachers and to secure their co-operation in making poultry instruction a part of the regular school work and in the organization of poultry clubs. The co-operation of the teachers is held to be necessary to produce best results and in many cases the teachers and school superintendents are found to be greatly interested in poultry.

Before organizing the Girls' and Boys' Poultry Clubs the importance of the poultry industry is explained and the children are shown how boys and girls, thru poultry work, can establish for themselves a pleasant and profitable business. The object of the poultry club is to give the girls and boys

worth while employment at home, to interest them in increasing the home supply of poultry and eggs for food, to improve farm poultry and place poultry keeping on a higher plane on our farms. The production of pure-bred poultry is encouraged and where it is desired to use the common farm flocks the owner is advised to grade up these flocks by the use of pure-bred males. Arrangements are made with local breeders of poultry to supply members of poultry clubs with hatching eggs and breeding stock at much reduced prices to encourage the use of pure-breds.

Meetings of the poultry clubs are held at least once a month and oftener when the interest warrants it. Members are required to write compositions on poultry work and an effort is made to have such compositions credited as a part of regular school work. Thruout the year the agents in charge of the poultry club work assist the members and their parents in every possible way by means of instructive talks before the clubs, giving practical demonstrations embracing the fundamental principles of poultry keeping and by visiting members' homes and giving practical help. The parents are educated in the importance of the work and the value of poultry thru the practical demonstrations of successful work by the children and, invariably, the result of club work is great improvement in poultry conditions, in-



School at Church Road, Virginia, first school at which the U. S. Dept. of Agriculture presented poultry club work. See "What 'Uncle Sam' Is doing for Poultry."

terest is developed and a source of wholesome food and increased revenue is added to the farm home.

In poultry club work it has been noticed that frequently the parents are prone to disregard the interest taken by their

children when they first start with poultry club work, presumably due to lack of appreciation of the importance of poultry on a well-balanced farm. However, as the children become more interested and develop enthusiasm, the parents get into the spirit of the work and heartily co-operate, giving the youngsters a chance to make the most of their opportunity. Often they encourage the children by remodeling old poultry houses or helping to build new ones. In practically all cases the establishment of pure-bred poultry on a farm has developed a greater appreciation of poultry, and particularly pure-bred poultry, as a source of farm food supply and income. In communities where poultry clubs have been organized, it is an established fact that farmers now look on poultry as a source of revenue on the farm instead of a "necessary nuisance" as formerly. The development of Girls' and Boys' Poultry Clubs has resulted in the establishment of Community Breeding Associations, a demonstration of adult interest developed thru the initial steps taken by the children and their great enthusiasm in the work.

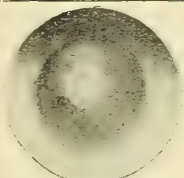
Community Breeding Associations, the object of which is to establish in one community an interest in one particular breed or variety of fowls, have proved practical and have met with considerable favor in each section where they have been organized. By closely associating with other members, all breeding the same variety, each member becomes stronger as a breeder of the club breed, greater uniformity is secured and the quality of the stock is improved. For both breeding stock and market poultry production, and its several branches, the advantages of successful community co-operation are secured.

Several schools have been encouraged to develop and operate a school poultry plant and examples might be cited where high schools and graded schools have added a course in poultry husbandry to the regular curriculum, using Government bulletins and circulars as text books and managing a practical poultry plant on the school grounds so that the

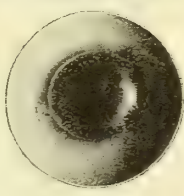
POSTMASTER: You are directed to post this placard in the lobby of your post office.—A. S. HURLESON, Postmaster General.

PRODUCE INFERTILE EGGS!

FERTILE EGGS SPOIL QUICKLY
IN SUMMER WEATHER.

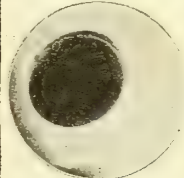


No. 1. Fertile egg after 24 hours at 103° F.
FERTILE EGGS BEGINNING TO HATCH.
BUT FERTILE'S EYE POOL.

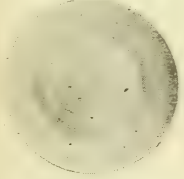


FRESH EGG.

INFERTILE EGGS KEEP BEST AND
MARKET BEST IN SUMMER HEAT.



1A. Infertile egg after 24 hours at 103° F.
NO FERTILE GERM. NO BLOOD RING. STILL GOOD
POOD. IT WOULD BE STILL BETTER IF ADDED COOL.



No. 2. Fertile egg after 36 hours at 103° F.
BLOOD RING FORMING. NOT GOOD FOR POOD.

FERTILE EGGS COST THE FARMER \$15,000,000 A YEAR.

Farmers lose \$45,000,000 annually from bad methods of producing and handling eggs. One-third of this loss is preventable, because it is due to the partial hatching of fertile eggs which have been allowed to become warm enough to begin to incubate.

*The rooster makes the egg fertile.
The fertile egg makes the blood ring.*

You can save the \$15,000,000 now lost from blood rings by keeping the male bird from your flock after the hatching season is over.

The rooster does not help the hens to lay. He merely fertilizes the germ of the egg. The fertile germ in hot weather quickly becomes a blood ring, which spoils the egg for food and market. Summer heat has the same effect on fertile eggs as the hen or incubator.

INFERTILE EGGS WILL NOT BECOME BLOOD RINGS.

After the hatching season cook, sell, or pen your rooster. Your hens not running with a male bird will produce infertile eggs—quality eggs that keep best and market best.

RULES FOR HANDLING EGGS ON THE FARM.

Heat is the great enemy of eggs, both fertile and infertile. Farmers are urged to follow these simple rules, which cost nothing but time and thought and will add dollars to the poultry yard returns:

1. Keep the nests clean; provide one nest for every four hens.
2. Gather the eggs twice daily.
3. Keep the eggs in a cool, dry room or cellar.
4. Market the eggs at least twice a week.
5. Sell, kill, or confine all male birds as soon as the hatching season is over.

NOTICE.

Valuable published information on the raising and care of poultry and eggs and individual advice on these subjects may be obtained by writing to the Bureau of Animal Industry, U. S. Department of Agriculture, Washington, D. C.

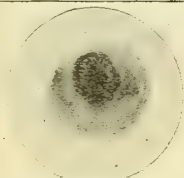
Approved:

D. F. HOUSTON, Secretary of Agriculture.

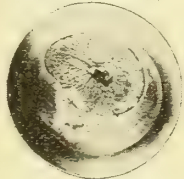
A. D. MELVIN,

Chief, Bureau of Animal Industry.

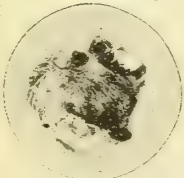
WASHINGTON, D. C., May 5, 1915.



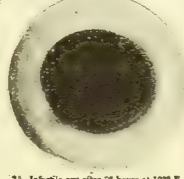
No. 3. Fertile egg after 48 hours at 103° F.
BLOOD RING FULLY DEVELOPED. "POOD" FOR MARKET.
WILL BE TURNED OUT BY CULIVER.



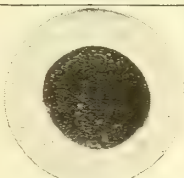
No. 4. Fertile egg after 72 hours at 103° F.
BLOOD TUBES OF EMBRYO CHORD VISIBLE THROUGH.



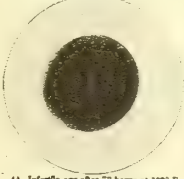
No. 5. Fertile egg after 7 days at 103° F.
COMPARE WITH INFERTILE EGG AND FRESH EGG.



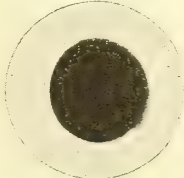
2A. Infertile egg after 36 hours at 103° F.
COMPARE WITH FERTILE EGG UNDER THE
SAME CONDITIONS.



3A. Infertile egg after 48 hours at 103° F.
STILL GOOD POOD.



4A. Infertile egg after 72 hours at 103° F.
NOT AN UNUSUALLY FRESH EGG.
BUT A LOSS TO FARMER.



5A. Infertile egg after 7 days at 103° F.
STILL A VERY FINE POOD. IT WOULD BE A PERFECT
EGG IF IT HAD BEEN KEPT FRESH.
COMPARE WITH FRESH EGG AND FERTILE EGG.

Egg placard of United States Dept. of Agriculture which Post Office Department is ordering posted in all Post Offices.



Top—Thomas Spain, winner of silver cup donated by Virginia Fair Association, 1914, for best exhibit by a Poultry Club member. Paw Creek Poultry Club, Mecklenberg County, North Carolina. Bottom—St. Paul Poultry Club, Catawba County, North Carolina.

children can take an active part in the improvement of the school flocks and the establishment of a practical poultry farm on a small scale that serves as a model to farmers of the community.

"Uncle Sam," thru his Girls' and Boys' Poultry Clubs and their exhibits, is helping to secure better quality in market eggs and to prevent the losses which result from shipment of fertilized eggs in warm weather. The infertile egg is recommended as most desirable for marketing and the least liable to be spoiled by shipping and market conditions before it reaches the consumers. Egg placards which explain the advantages of producing and marketing infertile eggs are broadcasted by poultry club agents and thru the Post Office Department. This department issued an order which placed the egg placards in the post offices of Virginia, North Carolina, South Carolina, Georgia, Florida, Tennessee, Kentucky, Texas, Alabama, Mississippi, Michigan, Kansas and Oklahoma, and it is probable that other states will be added when a greater supply of placards is available. Southern railroads, banks, stores, creameries and packing houses have taken a hand in the distribution of egg placards, for it is believed that a more general production of infertile eggs for

warm weather shipments will result in the saving of many millions of dollars annually, now lost thru spoiled fertile eggs.

The work of promoting poultry interests through Girls' and Boys' Poultry Clubs under the direction of the United States Dept. of Agriculture is a great work and one that is well worth while. We hope to see it developed to a still wider field of usefulness and extended to every state in the Union. At the present time there is a great deal of difficulty in securing experienced and competent demonstrators to serve as state agents. It is a work that calls for a broad practical knowledge of the various branches of the poultry business and a comprehensive understanding of the many popular breeds and varieties, as well as a good foundation of experience in actual poultry work.



Sex Control in Poultry Breeding

CHAPTER V—A Practical Application. *By Herb E. Sharp*

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ANY DISCOVERY, method or invention, to be of value, must be of some practical use, and to be of practical use, must be of such a nature as to permit of its being pretty generally applied, and while a universal application is not to be expected, yet a very general application is greatly to be desired, and in the question of Sex Control this much we hope to make possible.

No matter how perfect an idea may be, no matter how complete, and clear the directions may be given, if the experimenter fails to follow the right method of procedure, he should not be disappointed in his results, and if his efforts end in failure, he cannot condemn the principle which he may have tried to demonstrate.

Two plus two makes four; two multiplied by two makes four, thus it matters not which method we apply, the results are the same, and in breeding livestock the same thing is found to be true, no matter how we mate some individuals we get only indifferent results. Four plus four makes eight; four multiplied by four makes sixteen; here we have made use of exactly the same two formulas, with a different foundation numeral, and we have accomplished vastly different results, and this illustrates very plainly the differences that breeders will secure from different individuals when breeding in exactly the same manner.

It is as important to secure the right foundation stock as it is to follow the correct methods of mating, and caring for the stock. For instance in some families of fowls, and larger stock, the very finest individuals are produced by the mating together of close relatives, that is: mother and son, father and daughter, or brother and sister; at the same time, in many families, such matings have been found to yield only destructive results. For this reason let us present here a word of caution, before taking up the actual work of breeding for sex control let us make sure that the foundation stock has been selected from a family that will not lose some valuable character from the mating of close relatives; such families will most likely be found in the fowls of solid color, and perhaps in those breeds that have been developed from wild or native ancestors, without resort to crossing two or more lines of blood, such as the Leghorns, Hamburgs, Minorcas, and Langshans.

The surest test of whether or not a family will withstand the effects of close in-breeding is the amount of in-breeding behind them. Here cattle breeders have a great advantage over the poultry breeders in their registered pedigrees, that reveal unerringly the exact degree of relationship, between any two individuals, much more faithfully than the records of even the human family do, especially where the family relationship is somewhat remote.

It is not enough that a bird or animal conforms closely to the type of the breed it represents, but it must be backed by long lines of pure breeding. The mere fact that an animal is registered in the herd book of a breeder's club does not insure the purity of the breeding behind the animal, it does insure that all of the ancestors were known to be of that breed, but in Jersey cattle there will be found great families, "Flying Foxes," "St. Lamberts," and "Golden Ferns," and many others. If an animal traces all ancestors to one of these families, then that animal is pure bred, but if it traces to two or more, then it is as certainly cross-bred, as tho its parents were from different breeds.

Registration makes the pedigree authentic, and the pedigree reveals the quality of the ancestors, and their relationships to each other.

Poultry breeders, lacking these authentic records to refer to, must depend solely on the word of the producer, when buying supposedly line-bred or in-bred stock, but there are many breeders in all breeds whose word is as good as a government bond, so far as their information goes. And from such as these can be secured foundation stock that

has been more or less intensely line-bred, selecting from these the hen that produces mostly females in her chicks is only the work of a single year, if there be such a one in the flock.

To mate such a hen to her own sire, or brother, is the easiest thing for the poultryman to do, and to follow this with the mating of the same hen to her son, and the third year mate her to the son of her son, these chicks will be $\frac{7}{8}$ the blood of the dam, and can be depended upon to follow very closely after the performance of the dam, save in those cases where the dam herself is a "sport" or "freak", when the chicks will most likely present the family trait, instead of the traits of the dam. If the family be one that has shown no stability, by vacillating from one extreme to the other, or if the remote ancestors were of two or more distinct types, then we need hardly expect to secure uniformity in the results of our work.

Many thousands of years were required to develop the Leghorn, and many more thousands were required to develop the Langshans, and we need not hope to produce their equals in the matter of uniform breeding results in a few months, or half a dozen years. The Holstein breed of cows has been kept pure for at least a thousand years, but no intelligent effort has ever been made to secure uniform markings as was done in the Dutch Belted cattle and the Herefords.

In these breeds the effort was made by following an intense series of matings of close relatives, and the marks were made a basis of selection, and if we make Sex Control the basis of selection and then follow the same method of mating close relatives, we cannot fail. If we should cross the Hereford and the Dutch Belt, does any one suppose that all calves would have white faces, and white belts?

Some of them would, no doubt, but these could by no means be expected to reproduce their own likenesses, and selecting from such a foundation any female because she had dropped mostly female calves, and breeding her to her own closest male relative, would not cause the sex trait to be inherited by the progeny, any more than the white face and the belt; the results would be mongrels, and they would only give the appearances and performances of mongrels, so in the breeding of fowls, if we select one of the many cross-bred breeds, we cannot reasonably hope for success.

If it should eventually be shown that Sex Control is not for these cross-bred breeds, then it will not be the fault of the underlying principle, but the fault of the foundation stock selected.

If two plus two make four, and four plus four make eight, then the live stock breeder must as surely select the right individuals, to find any definite and certain results, as the mathematician must select the correct numerals, in order to find the correct answer.

In mating fowls, where certain combinations of color markings are required to maintain the breed, it has often been found that the mating of sire and daughter, or dam and son, tends to weaken, or strengthen—some one color at the expense of another, and if selection is made only for the desired sex, and then the close mating is followed in one of these breeds, we will perhaps have the desired sex control, but the color will have been permanently lost, the breed destroyed.

As the sire does not influence the sex of his own progeny, we can only find the tendency of a sire, by watching the performance of his closely related females, his dam, his sisters, and the dam of his sire, etc., after these will come his daughters, and when he has produced a large number of daughters from different dams, and they have lived long enough to indicate their sex tendencies their sire will probably have gone into retirement.

In those breeds that have been developed by domesticating some wild form, and never breeding in any foreign

blood, where the color combinations are simple, it will readily become possible to build, establish and maintain families, flocks, herds, and strains, that will transmit from generation to generation the trait of producing progeny very largely of one sex.

We must first select the breed, then the family, then the individual in that family, that has been intensely line-bred, and that has shown a strong predominance of the desired sex in her progeny.

Now in selecting the line-bred individual, we must watch for another condition, that is where the pedigree traces back thru several generations of line-breeding, where no very close relatives have been mated, and we find that two

PUREST 13730.	{ Sire.	{ Mercury 432. ...	{ Jupiter 93.	{ Saturn 94.	{ Rhea 166.	
						{ Alpheia 171. ...
	{ Dam	{ Nymphaea 5141.	{ Mercury 432. ...	{ Leda 799.	{ Jupiter 93.	
						{ Phaedra 2561. ...

individuals have appeared an equal number of times. If these two individuals were not in perfect harmony in *all* characters, that is if they were not closely related, then the progeny of that line of breeding is very likely to be erratic in their performance, sometimes following the characters of one of these parents, and sometimes the other and very often compromising by exhibiting neither.

In dairy cattle, where we have the advantage of records there are many just such pedigrees, and the owners of indifferent specimens are continually wondering why their stock does not develop as it should, when it has two such wonderful individuals as foundation. The answer lies in the lack of perfect harmony of the invisible characters. Those two individuals did not "nick" perfectly; they could not because they were not closely related.

In selecting the individuals for our breeding yards we are selecting the ancestors for posterity, and if we pay close attention to the selection of the ancestors now, we will give to posterity the kind of ancestors we desire.

Let us, then, select for example a cow that is known for her milk and butter production, and for the fact that she has dropped, say eight heifer calves, and only one bull, and her daughters also showed the power of their inheritance by dropping from four to eight heifers, and from two to three bulls each. Now if the old cow's bull calf was dropped while she was young, it would be possible, and correct to mate him to his mother, but, as frequently has occurred, the lone bull did not appear till late in the life of the cow, and she may have quit breeding before he was of age to use; then we must have recourse to some other method of mating. If the sisters are from a sire closely related to the old cow, or from different sires we can mate the young bull to these sisters, and so increase, or strengthen the proportion of the blood of the original dam, in the progeny, and this will serve to increase to some extent the proportion of the predominating sex shown in the offspring.

We can next mate this bull to his own daughters from his sisters, so increasing the blood and characters once more, and we will by now probably have produced another bull, son of his sire's daughter from his own sister, and as the blood of the original dam has increased in proportion as the later generations have come, this younger bull is stronger than his sire, and we can well retire the older one, and breed the younger to his dam and her sisters, and again to his daughters, etc.

The same method will be found applicable in the poultry yards as well, only that we have not the records to refer to in making selections and much more must be chanced on the selection of the foundation stock.

But the poultry breeder has a great advantage in that he can produce a much larger number of individuals from a single specimen in one year, than the cattle breeder can produce in an entire lifetime. A single hen will readily produce 20 to 30 chicks in a single season, but a cow will hardly produce a dozen calves in her life time, tho some rare ex-

ceptions have done far better than that, thus the poultry breeder can observe the performance of two or three generations, in his own yards while the cattle breeder is raising a couple of selected individuals.

As an ideal example of the correct method of breeding, I will present the pedigree of the Jersey cow "Purest" 13730. While there are perhaps no definite records of her performance as a sex control specimen, if her ancestor, "Rhea" 166 had dropped six or more heifers, and not more than two bulls, and her mate "Saturn" 94 had been a closely related animal, no student of the laws of heredity would question that "Purest" should have dropped more heifers than bulls, if she had lived to a good old age.

It will be readily admitted that she could not have inherited any traits or characters not possessed by her sire "Mercury." Here the sire was not merely half of the herd, "Purest" being considered as a herd, but he was positively all of it, and as he was the product of a brother-sister mating and hence a double grand son of "Saturn" and "Rhea," he could not have possessed any traits and characters not possessed by them, and could not transmit to his progeny any other traits or characters; "the fewer number of characters a sire may possess the greater strength he will show in transmitting them," is a practical law, and in the case of the cow "Purest" we would normally expect her to show great prepotency, as a result of the fact that absolutely all of her ancestors for several generations were in perfect harmony in all characters.

So rare is, such a pedigree, and so intense is the degree of in-breeding, I have been tempted to make use of a separate designation for it, and have used the term "Straight Bred" as the cow was bred right straight in, and was $\frac{7}{8}$ the blood of her sire.

It is not possible to secure foundation animals bred as was the cow "Purest," at all times, and we have recourse to one other system of breeding that is as certain in its results, tho somewhat slower in its application, and known as "Line Breeding." In this case, sometimes by tracing the records back for seven or more generations we occasionally find that some one individual appears several times, as in the case of the Guernsey Bull "McDonald's Prince." On his sire's side he traces to "Loyal of the Hunguets" once in the fifth generation, and twice in the sixth; while on the side of his dam he traces to "Loyal" three times in the fifth generation back, and each time thru a different son or daughter, so that "Loyal of the Hunguets" shows six times in the pedigree, while no other remote individual, shows even twice, and it is clear that if "Loyal" was equally as strong in his breeding powers as the rest of the ancestors of "Prince", then "Loyal" will dominate the entire pedigree, and so his traits and characters, will be very apparent in "Prince" and in his descendants.

With this pedigree before us, if we have an adequate idea of the breeding powers of "Loyal" we will be able to reasonably forecast the breeding powers of "Prince" tho there are five generations between them. If "Loyal" was an exceptional animal, "Prince" is very likely to duplicate his work.

Poultry breeders generally have not access to such records, but by taking such a pedigree as a pattern, we can shortly establish a similar line of breeding in our own yards, but in selecting foundation stock we are solely dependent upon the intelligence of those breeders who have carried on their line breeding operations over some considerable period of time, and have been able to present some definite results; trap nests have not yet been invented with an attachment on the side for measuring the breeding ability of the individual. Any fowl may lay 300 eggs in a year, but that does not indicate that her daughter will do likewise, or

that her son will produce a flock of daughters that will.

The Babcock Test, and the Milk Scales, in the dairy, show very clearly what a cow has done, but they do not show what the ability of her daughter will be, or what she will transmit to her sons; these are things which we may estimate from a study of the pedigree only, and it matters not how many high records may be possessed by the ancestors, if there is no blood relationship between them the posterity will not be uniform, in appearance, performance, or production.

The pedigree must reveal a definite degree of line breeding, or as in the case of the cow "Purest," Straight Breeding. It must trace directly to a practically perfect individual, that has inherited from his ancestors the qualities desired, and where Sex Control is the quality desired the pedigree must trace to an individual female that has produced a great preponderance of the sex desired.

With the foundation female in our hands we are ready to apply the principle, by mating her to her son, if she produces one, and if she fail then to the son of her daughter, selecting of course the daughter which comes closest to our ideal, and where there is opportunity to choose, select the male that comes the nearest in external appearances.

Mate then to the closest female relatives, until we have produced a male that carries more of the blood of the foundation female, in displacing the older male, also reserve the female that is most closely related to him, for the close family relationship is as necessary to insure harmony in invisible characters as records of performance are to show desirable individuals.

Perhaps this illustration will drive home the argument as well as pages of words. There is no possible registration for an animal with such a pedigree as this; his power to reproduce his own likeness is positively nil, even tho his grandparents all be the choicest of their breeds.

MONGREL	{	Shortsey.	{	Shorthorn.
				Jersey.
		Herestein.		Hereford.
				Holstein.

There is nothing wrong with the animal except that he has lost the power to transmit the characters of his parents. Such an animal may have the highest records of the world *behind* him, but he has *nothing before* him, simply because his family ties have been broken up by the matings of non-related individuals.

Sex Control will be entirely dependent on the ability of the individual to transmit to his or her progeny the traits and characters inherited from the ancestors, and inheritance depends so wholly on the mating of close relatives, a practice that has been condemned both loudly and long, by both great and small, that it will be with many misgivings that the average breeder will be brought to make the attempt, with even a small number of individuals, yet when we think of the vast number of fine males sacrificed every year, "to avoid in-breeding", we are compelled to wonder why no one has ever dared to try this out before.

Beginning with a practically perfect individual, and breeding back to that individual, be it of either sex, we are increasing the prepotency and, if the stock be not forced beyond the limits of endurance in the making of high records, we will produce stock capable of making greater and greater returns on the feed invested. This will be evidenced first by the greater size of the individuals, and second by the greater normal yield of the females, whether in milk, butter or eggs.

As a concrete, present day example of the power of inheritance, which may be built up by a long series of matings of close relatives I wish to cite the following record:

Phillip Dauncey, of England, in 1826, purchased a foundation herd of Jersey Cattle, and began a systematic course of line breeding, which has been continued down to the present time in the hands of various breeders, and the results are apparent, and can be viewed by any one interested.

After 46 years of his work he bred the bull "Young Rioter" to his own daughter, "Essay," and she dropped a

bull calf, ever since known as "Stoke Pogis." This bull was brought to America with the cow "Marjoram," whose pedigree showed two sires from the Dauncey herd, so that she was closely related to "Stoke Pogis." They produced the bulls "Stoke Pogis III" and "V," and the cow "LeClair's Marjoram," and several others.

"LeClair's Marjoram" was bred to her full brother "Stoke Pogis V.," and produced the bull "One Hundred Per Cent." she was then bred to this son, and produced "Two Hundred Per Cent," another bull.

Meanwhile "Stoke Pogis III" had been bred to the cow "Kathleen of St. Lambert," and produced the cow "Ida of St. Lambert;" she was bred to the full brother of her sire, "Stoke Pogis V.," and produced the cow "Pomona's Ida of St. Lambert."

This cow was then bred to the bull "Two Hundred Per Cent" and produced the cow "Idaletta of Glen Rouge;" she was bred to the bull "Rioter of St. Lambert Jr." also a line bred descendant of "Stoke Pogis III" and they produced the cow "Idaletta's Riotress," that made 17 lbs. 8 oz. of butter in seven days.

"Idaletta of Glen Rouge" 141141, was also bred out of the family line to the imported bull "Eminent" 69631, and this time she produced the bull "Eminent's Pilot," a bull that showed every trait and character of his dam, and her family, not only in himself, but also in his get. The bull "Eminent" sold for \$10,000 at auction and has given a good account of himself when bred to ordinary good Jersey cows, but when bred to the intensely in-bred "Idaletta of Glen Rouge," the calf resembled the dam more than the sire and the characters of the dam have showed up in the calves of the next generation. Sons as well as daughters of the bull "Eminent's Pilot," are now in their prime and are making their own records in the world. I have viewed closely a number of them from different cows and can state positively that so far as I have found them, they are a uniform lot and of good promise; those that are in milk are making good records.

It is just 90 years since Phillip Dauncey began in-breeding this stock and there has been only about two introductions of foreign blood and both times this was a detriment to the family, even tho it was the best that money could buy.

This record is not cited as evidence of the transmission of the sex trait as sufficient information is not at hand for the purpose, but it is cited merely to substantiate what has been said as to the increase in breeding ability due to in-breeding. It further shows that more than *five generations* will have to be carried before the stock will "run out," where the foundation stock is right and reasonably good care is given the breeding animals.

Poultry breeders have so much greater opportunity to test out such a system of breeding that it is a great wonder to me that some one has not come forward with an authentic record of similar work many years before.

Such a system of breeding, if long continued, beginning with a hen whose chicks are mostly females is certain to eventually establish a family or strain of fowls whose chicks will be usually from 75% to 95% or an even 100% females, especially if care be taken to breed from those females that produce the greatest preponderance of females in their chicks. Cattle breeders have an advantage in their registered pedigrees, in the selection of foundation stock, but the poultry breeders have an equally great advantage in the shorter period of time required to secure results, and the larger number of progeny to be secured from a single individual. This gives a much wider range of selection, and a better opportunity to figure an average from which to make a foundation or basis for selection.

The pedigree is, of itself, of no value, but it will reveal the real value as a breeder, of the individual and in a far better degree than will any other test. An individual may look all right to the competent judge, and then be all wrong in the breeding yards or an individual may hold all the world's records for its particular line of work and yet be worthless in the breeding pens; but never yet was an intensely line bred individual with a long line of correct ancestry behind it, that was not able to produce good stock, if properly raised.

The frump of good parentage, is of more value than the perfect specimen of poor breeding or mixed parentage.

Many breeders discard very carefully the individual that is not near perfect in appearances, while many others discard the individual that has not been forced to the limits of endurance, simply because there is no record with it. Many a bull has been slaughtered because his dam was not tested and there was not time to test his daughters. "Stoke Pogis III" was killed; "Because he made such a nice piece of meat. He dressed 1700 pounds," and shortly afterwards his daughter, "Mary Anne of St. Lambert" made 36 pounds of butter in seven days and 867 pounds of butter in 365 days, as a four year old. Can any one say what her daughter would have done, could she have been bred to her own sire after she became a mature cow?

An intelligent examination of the pedigree of "Stoke Pogis III" must have revealed his great prepotency and saved him from an ignominious death. He was condemned by the scales, as would be practically all of our best breeding animals, yet the animal with high record ancestors is being sought for with a Babcock Test, and the milk scales, while the same thing is going on religiously in the poultry yards by the aid of a trap nest, that cannot and does not show the breeding power of any bird, male or female.



Dr. and Mrs. Prince T. Woods, of American Poultry Journal editorial staff, and Miss Dorothy T. Woods, The Anchorage Farm, Silver Lake, Mass. June, 1916. Photo by Master Robert P. Woods.

The only reason I cannot write up the "Stoke Pogises" of the poultry yard is because we have no system of registration, nor records, not because they are not killed regularly, for we go right on merrily killing our best birds to suit the idle fancy of some fellow with a loud voice and a cheerful slogan, "Swat the rooster," regardless of his ability or his ancestry, before we know what his daughters will do or whether he should live to be mated to his best daughter or not.

The bird whose ancestry is unknown may or may not be of value, he may or may not be the line bred descendant of some strong individual we would prize very highly; he may or may not have the ability to give us the kind of descendants we want in our yards, and so we may or may not be making a mistake when we send him to the shambles.

But taking the country over, the campaign perhaps should be extended to include not only the rooster but also his sisters and all their kind, for the bird that fails to produce progeny better than himself, is not the kind of bird we all desire to keep; but that bird whose daughters regularly lay a uniform lot of fair sized eggs, which usually hatch out a strong preponderance of female chicks, can well be preserved and mated to its own nearest of kin. Then to the second and third generations, and as long as his age permits and his chicks continue to show improvement.

Careful attention to the selection of the females used, and the retention of those that produce the greatest percentage of females is certain to bring the desired results.

There was a time when the poultry breeder cared not

whether his hen laid two eggs a year or two hundred, so long as she could produce a better fowl than herself and those breeders were far wiser in their ignorance than are some of the trap nest enthusiasts in their wisdom. For in those days the breeder did produce some degree of uniformity, and with it some prepotency, which was followed in due course by the ability to produce as many eggs in a year as any of our fowls today will produce under identical conditions of feed and care.

Under the lash of the trap nest records, attention is being drawn to what the ancestors have done and away from what the progeny will do, the selling point becomes the number of eggs laid, or supposed to have been laid, while no attention is given to what kind of a chick will be produced by the hen, whereas the real value of any specimen lies in the quality of the progeny it will produce.

If a hen would lay six hundred eggs in a year, and none of them could be hatched, she would be worth just as much as the grocer would pay for her eggs; but if she lays a dozen eggs that can be hatched and each egg contains a pullet capable of laying 150 eggs, then that hen has a value as a breeder, far in excess of anything that her dozen eggs could bring at the grocer's.

If a hen will produce a flock of chicks of uniform appearance and performance, then careful feeding will make possible any high record that may be desired, more high records are made by feeding than there are made by breeding. It is admitted that the best of stock will not produce without feed, but the most indifferent stock can be fed into producing a substantial number of eggs.

For fifty years we have had records of hens laying 300 eggs or more in a single year, and one record was recently published of a hen that laid four eggs a day in a trap nest, but no one has yet claimed to have secured these great record hens without scientific feeding, and on this account, the high record should be entirely ignored, when selecting breeding stock for if the stock is good and intelligently handled, the records will follow, while if the record has been made, the stock may be worn out and no amount of intelligent handling will bring back their former vitality. Mating such a hen to the son of another high record hen without regard to color, shape, weight or relationship, and we have absolutely no assurance of what the progeny will look like, or act like, in the breeding yards, or in the feeding test, nor anywhere else.

Selecting a female because of the sex shown by her chicks when we view all the chicks, then mating her to her son, or her daughters to their brother, we have every assurance that the chicks will look like, and act like their strongest ancestor, and if all ancestors are uniform in appearance and similar in performance, then we will have a uniform flock of birds that will stand up under a reasonable amount of high pressure work and give a good account of themselves. And in the breeding pens such stock will give us an ever increasing proportion of female chicks.

Our trap nest friends who are ever giving us greater, and greater records for their fowls fail to consider the steady advance they are themselves making in the art of forcing hens to do their utmost by manipulation of the feed rations. They would attribute all the advance to the hidden laws of inheritance; because a certain hen has laid 200 eggs is no indication her daughter or son's daughter will do as well. If they will once take such a hen, breed her to her own sire, then to her son, and then to the son of that son, and produce a daughter that will make such a record, without the excessive high feeding, then we will have some grounds for crediting their claims of inheritance.

Then by line breeding to secure the type desired, increase the prepotency and producing ability, and with these the proportion of the sex desired.

Editors have quite uniformly cautioned breeders against line breeding or in-breeding their stock, but I would say that if a sire is not good enough to be mated with his own daughters, he is not good enough to be used at all, for if he is right, his daughters will be better than their dams and another infusion of the same blood will make them better still, if he is wrong, no one wants him anyway. There is no use going even a short distance in the wrong direction.



Laying Ducks and Their House on the Niagara Farm, Ransomville, N. Y.

Duck Farming A Profitable Occupation

A Good Variety of Ducks Properly Fed and Cared For Will Convert Foodstuff into a Highly Finished Product, More Economically and in Less Time Than Any Bird Sold for Meat Purposes.

By Earle William Gage, Ashville, New York



RAISING DUCKS HAS BECOME one of the well established and highly specialized lines of modern poultry raising. Many duck raisers are making excellent returns supplying the increasing demand for this tender, juicy and luscious meat, which commands high prices at all seasons of the year, due to the fact that there exists a shortage of meats of other kinds. But a few years ago, ducks were looked upon as a mysterious member of the bird family, being kept on most farms

as a novelty. With a close study of the need of the birds under domestication and with the application of commercial principles in duck breeding, has followed such progress as exists in few farm endeavors.

Formerly the duck was cataloged under the list of game birds. With very few exceptions they are strictly aquatic birds, characteristic of northern regions, where some 90 of the 180 species are found. There are from five to 10 sub-families recognized in fowl lore, yet there are but half a dozen that have been brought up to a high rank of domestication, being raised under the same conditions as other poultry.

As table delicacies water fowl have long been held in high regard and they are grown in large numbers in all parts of the civilized world. In China, especially, duck breeding has been carried on for many centuries, while the goose was the sacred bird of Egypt fully 4,000 years ago. It is most interesting to note that though the bird has been bred in domestication for such a long period it has been modified but little as regards external characteristics, while the duck is practically the same bird so highly valued by the ancients.

Wild ducks of all breeds are found in all parts of the world, and display a wonderful variation in size, color and markings. The plumage of certain types is exquisite,

in many cases having a wonderful brilliancy that cannot be described, but which commands instant admiration.

To America's list of domesticated ducks, Europe, Asia and Australia have made contributions. The present interest in breeding wild varieties bids fair to add many valuable species to those already domesticated. Many of these wild birds are particularly attractive because of their wonderful plumage and these will naturally appeal to the fancier. Others have a distinct value for table use and because of this will undoubtedly appeal to the commercial poultry grower. In fact, the American Poultry Association today recognizes as pure bred, 11 distinct breeds of ducks, and two of these are bred in two varieties. The most popular are those which, because of their size, are useful as table poultry. The widely bred table kinds are the Pekin, the Aylesbury, the Rouen and the Muscovy. The Indian Runner is the world's greatest egg-producing duck, and is being kept more and more for this use, some high-blooded fowls having a record of 325 eggs per year, while a few flocks of a dozen birds have laid 15 eggs in one day, thus showing that individual ducks may lay two eggs in one day.

According to the 1910 census, nearly \$2,000,000 was invested in ducks in the United States. Ducks were reported on nearly 8 per cent of the farms, being most numerous in the following States, according to duck population: Iowa, Illinois, New York, Pennsylvania, Missouri, Tennessee, Indiana, Kansas, Oklahoma, Arkansas and Ohio, the number ranging from about 225,000 head in Iowa to 106,000 in Ohio.

Because of the increased demand, among city consumers, for duck meat, New York State was the only State which shows an increase in the number of ducks, while in other States the figures show decreases. Long Island contains the world's largest and most specialized duck farms, managed upon a commercial scale, in which fortunes are individually represented. Here duck raising has attained a position of success seldom reached.

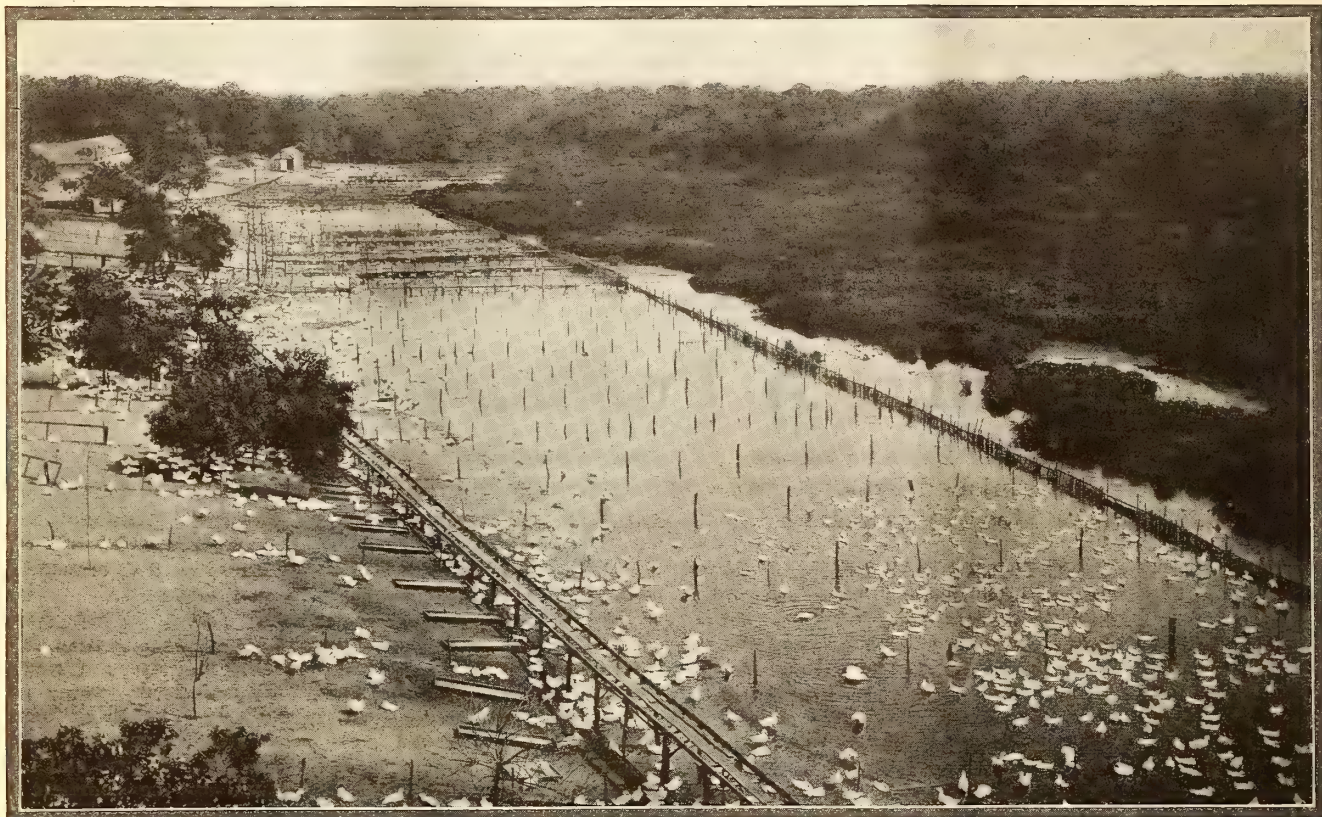
Duck raising on a commercial scale is practiced near Buf-

falo, the Curtiss Brothers' poultry farm at Ransomville, Niagara county, New York, being one of the world's largest general poultry farms, where approximately 150,000 ducks are marketed annually. This farm aims to supply breeders and the meat trade, the light and heavy strains being bred of pure-blood type. Certain sections of New England, particularly close to Boston, have specialized duck ranches, where thousands of ducks are produced during the growing season, and are profitably sold on large eastern markets. New Jersey, Pennsylvania, New York, Maryland, Virginia, and neighboring states, represent locations in which ducking raising may become profitably established upon commercial proportions.

Alfred R. Lee, of the United States Department of Agriculture, animal bureau, after an exhaustive investigation into the proper methods to pursue in duck raising, and methods employed, is of the opinion that duck growing in the

a good pasture, and for those varieties demanding water, where a stream or running water abounds. But farmers usually fail to gain all the profit and pleasure out of duck raising possible, due to lack in care and attention.

The Department of Agriculture recommends that duck farms be located on light, sandy soil, sloping, where the droppings leach away freely, thus insuring the land keeping sweet and sanitary. It is vital that the duck farm have a location allowing frequent and good shipping facilities, both in sending products to market and securing grain for the rations. The buildings should be so located and planned as to allow economy in labor and future development. Where the business is carried on a large scale, the incubator cellar is an important factor and should be located conveniently to the brooder houses, the brooder house to the growing house, pens and killing room. The pens in the houses, the outside yards and the arrangement of the buildings, it is



View of a Commercial Duck Farm on Long Island

United States is in its infancy, and that the future holds bright prospects for those who enter the industry upon a common sense basis.

Duck raising on a large scale has been developed as a special business to a more considerable extent on Long Island than elsewhere, because of the exceptionally good location as regards markets and climatic requirements. This location is within close shipping distance of New York, Boston, Philadelphia and hundreds of smaller consuming centers. Intensive duck farming on a large scale has, in fact, been more successfully developed than intensive chicken raising, since Pekin ducks, especially, stand confinement well, being more easily and economically brooded, and being subject to so few ailments and diseases as to increase the production to a high mark. Advanced and improved methods of artificial hatching and rearing ducks, with a list of labor-saving devices have successfully been used on duck farms.

Duck raising is adapted to general farms, and on many farms success has been achieved and profit made by using the duck flock as a side line. Not only does the duck add variety, both in meat and eggs, to the farmer's table, but proves a source of income. Breeds of ducks which are good layers are profitable on farms, particularly where there is

urged, should be planned so that the ducks may be easily driven from one house to another. The feed room or house must be centrally located for best results. Convenient watering arrangements are very essential if the flock be large, as ducks require large quantities of drinking water.

Altho it is possible to successfully produce ducks on intensive systems, yet it is more advisable to allow large yard spaces. Double yards, allowing the rotating of the flock from one to another, the soil planted to some quick-growing succulent plant such as rape, oats, wheat and rye, grant more intensive methods. A pond or stream is best for the breeding flock as they usually will lay a higher percentage of fertile eggs when allowed free exercise on range and water. Many successful duck farms are located many miles from a stream and these dry-land duck farms furnish a part of the food supply of many cities.

Producing green ducks has become one of the features of duck raising. These are dressed according to the market demand, at a comparatively young age and are not allowed to have access to a pond, being developed in pens and runs.

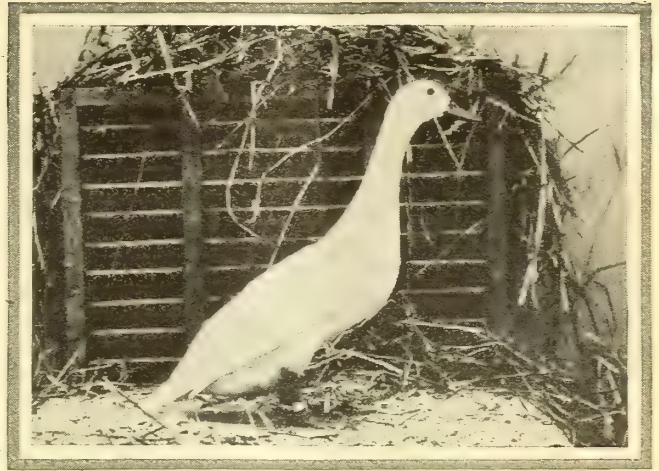
A good variety of ducks properly fed and cared for will convert feed into a highly finished product, more economically and in less time than any bird sold for meat purposes. Prolific egg production spells success for the Indian

Runner duck. Income from poultry may be divided into three classes—eggs, market and fancy, and this type of fowl meets all three requirements.

This variety start laying when very young, and inasmuch as nearly every duck proves a good layer except during molt, with proper feed and care, makes this duck the more profitable. They not only lay one year but several and do not cease their best productive age after one season's continuous laying. Even in extremely cold winter weather, when many hens stop laying, ducks lay well. "The bird that lays is the bird that pays."

With good management, ducklings are easy to raise, reaching marketable age at eight or 11 weeks of age. The meat, owing to rapid development, is both juicy and tender and of fine flavor. The great consuming centers of the country are demanding green ducks at the highest prevailing meat prices, during the summer months averaging between 30 and 40 cents per pound, and as a dressed duck weighs from four to six pounds, this makes a neat profit for the raiser.

Some have not succeeded with ducks, due to the fact that they did not understand the demands of this variety of poultry, for few of the rules that apply to hens will succeed with ducks. Ducks are consumers of food in great quantities during their developing stage. While they may eat 8 ounces of food at three weeks of age, they consume from



Pure Blooded Indian Runner Duck

good hatching eggs. A western New York poultryman uses a novel and sensible method of selecting ducks for laying hatching eggs. After having selected the birds with broad breast and back, deep in the keel, not too large in head and neck, medium length in body, and sharp alert eye, from the flock, he drives those selected a distance of about half a mile, giving them their time to waddle along. Those that fall behind and cannot keep up with the flock are never used for breeding, while those that withstand the trip are sure to produce vigorous and healthy stock for the next season. This is a very simple suggestion that has helped in the success of this farmer.

When the ducklings have been hatched 36 hours they may have a little feed and water. Either bread and cracker crumbs, hard boiled eggs or oatmeal slightly moistened and sprinkled with sand. Feed only a very little at a time, about every two hours starting at six in the morning and stopping at six at night, allowing a liberal feed at last time. But never allow them to have all the feed they want until they are ten days old. Give warm water for drinking when they are young after each feeding, but do not allow them to play in it and get wet. Gradually add bran to their bread crumbs, and when three weeks old a mash of four parts bran, two parts shorts, one part corn meal, one-half part beef scrap and one-fourth part fine sand, mix with water or milk to a thick, crumbly mass and feed four times each day what they will consume clean. Give plenty of drinking water, keep housed on rainy days and keep their bedding dry. Plenty of shade should be provided at all times.

One of the great items in favor of profit-bearing with Runners is that expensive buildings and high fences are not necessary. Open front sheds will be very satisfactory for breeders, while they will do equally as well penned as when roaming on open range. But on range they pick up most of their living during the spring, summer and fall.



Beautiful Rouen Duck of France

12 to 20 ounces the week previous to dressing. Indian Runner ducks being dry-land fowls, do not demand water as some varieties, and must not have it except in protected dishes when very young, as the danger from becoming damp and catching fatal cold is great. When older they should be given sufficient water for drinking and this fresh twice a day.

It is possible to raise Runners after it is too late to safely hatch chicks and insure maturity early enough to make satisfactory layers. In this way the same incubators and hens may be used to raise the ducklings used earlier in the season. They will develop fast in warm weather with very little care—practically no lice, mites or disease to battle against as with chicks, so that the ducklings put in all their time just growing into money, just as the mother duck puts in her time laying eggs. June, July and August are satisfactory months to hatch and raise ducklings, in fact, the eggs may be placed in the machines or under the hens just as soon as the chick hatching is over. Any time from spring to fall is opportune duck raising time.

Much will depend on the parent stock in the success with the ducklings. If the eggs for the start are purchased, it is best to know that the party you buy them of has good stock, but there is no need to worry about the fertile eggs withstanding a shipment of several hundred miles. I once bought some rare Indian Runner hatching eggs 1,500 miles away, and they hatched out with but one loss, and that was due to my fault. The parent birds should be vigorous and rightly mated and cared for to insure producing



A Pair of Pekin Ducks



Duck Brooder House

During winter weather they must be kept off snowy ground, in a dry place with plenty of bedding. The mash consists of four parts bran, three parts shorts, one part beef-scrap moistened. Give the mash mornings, what they will clean up nicely. At noon a feed of some sort of green—alfalfa, clover, rape, etc.—and at night corn, wheat or oats. Keep plenty of fresh water, fine ground oyster shells and grit before them at all times, and they will produce eggs at all seasons.

With good foundation Runners, it will not be difficult to please customers and give each and every one their money's worth. Green ducks are in great demand in nearly every town. On the farm, ducks can be raised with profit. The reason why farmers have failed to secure profitable returns from their green ducks has been that they have not paid enough attention to feeding and care to secure a share of the market demand for fancy green duck. The Indian Runner makes a prime light weight, which develops at lower cost and earlier date, thus making it a desirable breed to keep.

Pekin ducks are kept almost exclusively by commercial duck farmers in this country who make a specialty of producing "green ducks," and prove a popular breed on farms. This variety originated in China and was introduced into this country about 1875, where it soon became the most popular breed on commercial duck farms. The introduction of the Pekin variety practically marks the opening of the era of intensive commercial duck farming in this country. This breed has a creamy white plumage, a long, broad and deep body, with a full breast and deep keel. The attractive carcass makes it a very desirable article to offer on markets. The standard weights of the adult drake and duck are nine and eight pounds each, respectively. This variety is very hardy, good egg producers, practically nonsitters and are especially adapted to meat production. They are docile, easily confined, needing only low fences, are well suited to either commercial duck farming or as a side line on general farms.

The Aylesbury breed is a native of England, in which country it is more popular than any other kind. It is a

large, white duck having the same standard weights and general shape as the Pekin. This breed resembles the Pekin in many respects. It makes an ideal market flesh producing bird, and having white plumage, would supply aside from eggs and meat, a profitable feather for plumage houses.

In the Muscovy duck, several varieties of the breed have become established. This breed originated in South America and is considered by many specialists to be of a different species from our other ducks, the head and face of the true Muscovy being partly bare, with red, rough carunculated skin. It has a long, broad body, with greater breadth, but less depth and less keel development than the Pekin. The drake is usually a third larger than the hen, the drake's standard weight being about ten pounds, and that of the hen seven pounds.



Ducks Dressed Ready for Market

The Rouen duck originated in northern France and has been developed to its present high standard through systematic line breeding. This breed has very handsome markings, but inasmuch as it does not mature as early as the Pekin, Indian Runner or Aylesbury, is not as desirable for duck farm purposes.

There are three general methods employed in preparing ducks for market, namely dry picking, scalding and steaming. The ducks are usually killed by sticking in the mouth or through the throat with a pointed knife, and then stunned by a blow on the back of the head with a short club. The wings are picked to the first joint and the neck halfway to the head. Long pin feathers usually are removed with a dull knife and the down sometimes is rubbed off with the moistened hand of the picker, shaved with a keen knife, or burned with alcohol flame. On the larger duck farms, pickers work every day except Saturday and are continually engaged in preparing stock for the market.



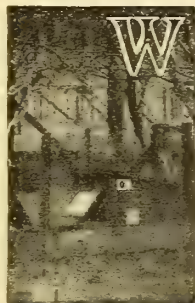
A practical Duck Breeding House

Duck feathers on the large farms represent added income, as duck feathers are of fine texture and much sought after by the commercial feather dealers. Therefore, dry

picking is very popular here, thus allowing the feathers remaining in the most desirable condition. Feathers sell for 40 to 50 cents a pound when dried.

The Single Comb Rhode Island Red—Why?

I Overheard a Man Say He Never Saw a Novice with a Good Looking Flock of Reds. From a Child I Was Always Fond of Knotty Problems, and That Decided Me. What Satisfaction in Getting a Truly Fine Specimen! *By Maude E. Chase*



WHEN I WALKED INTO the building housing the poultry show at the Panama Pacific International Exposition, I was reminded of a great shop window filled with valentines, so great was the variety of color, shape and size. The delicacy of one was enhanced by the brilliancy of another. Fascinated by the attractive variety, I tried to select one that particularly suited my fancy—but with difficulty.

For two years or more I have been acquiring all the theoretical knowledge that I could from books, correspondence

course, etc., and I had now come to this show to make a selection of breeds and begin practical operations.

I found there was no particular best breed for a city lot—or for a large ranch for that matter. A few minutes conversation with any breeder and you will be convinced that *his* is the ideal breed and the one best adapted to the particular needs of the buyer. Had I not acquired a dislike for some of the small breeds, Mrs. Martin would surely have sold me some of her Leghorns after a few minutes talk with her. But when I thought of how she had won ribbons and had been in business but five years and in such a contested class as the White Leghorn class, I said, "It is not so much a case of breed as of the breeder behind the breed" or the woman behind the breed in that case, for *she* would make a success with any breed she undertook to raise.

To the average American, no matter how attractive a bird may be to the eye, unless he can make it show a profit, he will not long continue with it. If we have a valuable bird, the more we can raise like her, the more valuable the bird. Therefore we want her to lay eggs. But prolific egg laying is a matter of management and breeding rather than that of breed, for has not every breed represented, won a prize at some time or other in the egg laying contests?

There was one question that bothered me—and that was the matter of confinement in close quarters, until I met a breeder who made this statement: "One breed will stand confinement as well as another, if you but study its requirements. Know your birds, their natural characteristics, their wants, and care for them accordingly." That was the fairest statement I received from any one and that man has my confidence. I know he will give a square deal.

As a photographer and colorist, my test for a good picture is: The picture when thrown upon the screen which calls forth applause is good, but the one which causes an involuntary exclamation from the audience is good indeed. And so I watched the people here. The Rhode Island Reds, and the Buffs—Orpington, Wyandotte and Rock—seemed to call forth involuntary praise. There is something about red and yellow that touches one. For instance if you step into the room of an acquaintance for the first time, and that room is done in a deep rich red and an open fire is blazing on the hearth, you will involuntarily exclaim, "Oh, how cozy you are here", and you will feel at home and on an intimate footing with the occupant. But no matter how cheerful the fire, if the room is white, you feel a little cold and distant. Is this not so, or did you ever think of it? Thus while you may stand at some distance and admire the snow-white plumage, the red will impell you to take it in your hands and fondle it. Take another instance of a young man sending his lady flowers. He starts with emotional white carnations, then selects violets and finally irresistible red roses.

I noticed that while there was a large class of Rhode Island Reds, there seemed to be many not worthy of a high class

show. Is it then so difficult to get fine feathers in the Reds? What satisfaction there must be then in getting a truly fine specimen. I overheard a man say that he never saw a novice with a good looking flock of Rhode Island Reds. From a child I was always fond of knotty problems—and that decided me. Rhode Island Reds for mine, with perhaps later some Buckeyes, seeing that I am a native of the Buckeye state.

I still greatly admire all the Buffs but many of them are not so popular here and it would be more difficult getting new blood, and as I am essentially an American, other things being equal, I have decided to stick to the American breeds. I purchased a pen of White Wyandottes owing to the popularity of white, and found that while the cockerel was from Missouri, the hens were imported from Barron in England. What's the difference between an American hen raised in England and an English hen raised in America? So I am back again with the Rhode Island Reds—an American hen raised by Americans for Americans.

I have been told that to make a success of the poultry business, one must be possessed of capital, experience, enthusiasm, energy and a vast amount of patience. Well, to test out my brooder system, I purchased a bunch of birds of a smaller breed because they were cheap, altho I could not resist the temptation to add a few Rhode Island Reds to the lot. Well, I have discovered where the vast amount of patience comes in, for while the Reds endear themselves to me more and more as the days go by, the others strain my patience to the breaking point and I vow, "Never again".

Summing up my reasons for selecting the Reds, let me say that to secure a "rare"—and I understand that rare is a good descriptive word for the breed—fine specimen gives one the feeling of a difficult task well done for the following reasons:

The breed is typically American; when it comes to quality as a market fowl (the true test of popularity in America) the Reds hold their own both for laying eggs and for fine quality meat; and here in California where our climate is so hard on white and buff plumaged birds, and where it is not always easy to find a sandy soil, the Rhode Island Red is the coming bird. At any rate I am convinced that it will be, just as soon as people forget that foolish precedent demanding white shelled eggs, as they have already done in the matter of yellow legs in market fowls.

Since taking up the study of poultry culture I have been greatly interested in reading breed articles which appear from time to time. It is somewhat like reading the same story over and over with different names substituted. Each claims the best winter layers. Each says they require less food. Each states they will stand confinement best. Each claims the best dual purpose, and so on thruout the list of good points. And to select a breed for beauty alone is like trying to pick the winner at a baby show—you are sure to be accused by someone of showing partiality. I attended a baby show once as I had made sittings of some four hundred babies entered in the contest, and believe me, I felt sure they would be compelled to send in a riot call, after the prizes were announced. And the very baby who had caused me the most trouble, trying my patience to the utmost, took first prize! I thought him anything but beautiful, so you see there is no accounting for tastes.

Personally, I am well satisfied with my choice of the Rhode Island Reds and when I undertake a hard task, I like to stick it out until I win, so in the future, my friends will find me at the shows beside a pen of Rhode Island Reds.

"WE LEAD, OTHERS FOLLOW"

EDITORIAL

American Poultry Journal

Entered as Second-Class Matter August 9, 1886, at the Postoffice at Chicago, Ill., under Act of March 3, 1879

65,000 American Poultry Journals for
August, 1916.

State of Illinois, County of Cook, ss.:

G. M. Atwell, president of the Atwell
Printing House, Chicago, being duly sworn,
certifies that the American Poultry Journal
has contracted for printing and binding
65,000 copies of the August, 1916, issue.

G. M. ATWELL.

Subscribed and sworn to before me this
18th day of July, 1916.

(SEAL)

ALICE A. SHEHAN
Notary Public.

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any display advertisement appearing in the
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subscriber when ordering the fowls or mer-
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country.



Very few people realize the great
numbers of fowls kept on city and
town back lots, or the very consider-
able importance of the poultry work
of "back-lotters" in the production of
food poultry and eggs.

Recent agitation of an ordinance
prohibiting the keeping of poultry
within the city limits, brought to
light the fact that not less than 3,000,000 fowls and
chickens are kept by Chicago poultry keepers. One
feed store on the West Side was reported as hand-
ling \$5,000 worth of feed a month for poultry
keepers in that neighborhood. Numerous cases were
cited where the back-lot poultry played an import-
ant part in the support of the family, supplied de-
sirable poultry meat and eggs for the home table,
furnished new-laid eggs for the sick, and showed
substantial weekly sales thruout the neighborhood.

Chicago has many poultry keepers, both fanciers
and the "just eggs and meat" kind. But this city
does not stand alone in this respect and nearly every
large or small city and town has a large percentage
of back-lot poultry keepers. In two big cities we
know of a few fair sized broiler and egg plants that
are conducted on the roofs of sky-scrapers. Not
very large plants to be sure, but of sufficient size
to have importance as a source of wholesome food
supply and to afford a comfortable addition to the
income of the owners, who are modest wage earners.

In most cities and large towns fowls can only be
kept within certain limits by special permit of the
Board of Health. Fairly strict sanitary regulations
are imposed. That is all well enough, for certainly
it is necessary that in congested residential or busi-
ness sections any live stock should be kept under

strictly cleanly and sanitary conditions.

In some places the anti-hen sentiment is strong
and city ordinances interfere seriously with the
keeping of poultry. The anti-noise crusade is a seri-
ous menace to back-lot poultry keeping, unless it
is possible to find a way to make cocks crowless and
to silence the cackling of the hens. Nervous folks,
who seem able to peacefully abide the noise of L-
trains, the racket of flat-wheeled street cars, the
shrieking trolley grinding on ill-greased curves, the
roar and turmoil of ordinary business traffic, and
the siren voices of steamers in the harbor, appear
to be unduly annoyed and prostrated by "the cock's
shrill clarion" announcing the dawn, or the cackle
of excited "biddy."

City poultry keepers will have to be up and doing
if they wish to stay in business and they will have
to keep on fairly good terms with their neighbors
to avoid protests against a "noisy chicken yard."
Cock-crow shortly after midnight or at 3 a. m.,
has a serious and alarming effect upon the delicate
nervous system of "neighbors," who think nothing
of staying up all night to sing the latest popular
songs or play ragtime on pianola or phonograph,
while the guests trip the "light fantastic." In this
anti-noise campaign, much seems to depend upon
"whose ox is gored." We do not believe that an
ordinary city flock will really make sufficient noise
to seriously affect the nervous system of the av-
erage city dweller. Of course back-lot poultry yards
should be kept in a scrupulously clean and sanitary
condition, unnecessary noise should be avoided; as
few males as are absolutely required should be kept,
to minimize the annoyance caused by crowing, and
it will be wise to keep the more quiet and peaceable
varieties.

But we do think that a great deal of this anti-poultry movement, directed against city and town lot poultry keeping, is unfair and unjust. There are far greater noise evils and unsanitary city conditions that should be regulated before legislating against the city poultry raisers. In this, as in other matters, organization and political influence plays an important part and if city dwellers would continue to pursue poultry keeping for both pleasure and profit, they must be up and doing and bring their influence to bear on the "city fathers."

Get busy, back-lotters, get busy!!



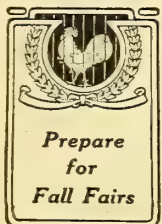
During the latter part of June we had a very agreeable and interesting visit with "Uncle Sam's" Poultry Investigators in Washington and at the Government Experimental Farm at Beltsville, Maryland.

On pages 982 to 986 of this issue of A. P. J. will be found an illustrated report of the work for poultry

"Uncle Sam" is doing thru his Girls' and Boys' Poultry Clubs, a big and useful work, well begun. In the September American Poultry Journal we hope to present a well illustrated report of our visit to "Uncle Sam's" farm and believe it will be of interest to all our readers. It is probable that, from time to time, we will present further articles on "What 'Uncle Sam' Is Doing for Poultry," which series will endeavor to show our readers what a big work for the betterment of pure-bred poultry and poultry conditions has been undertaken by the Animal Husbandry Division of the Bureau of Animal Industry, U. S. Dept. of Agriculture.

The Poultry Investigations work is directly in charge of Harry M. Lamon, who is well and favorably known to the poultry fraternity. He is ably assisted by a corps of efficient associates who pull together and do good team work. We were impressed with the fact that these investigators go at their poultry experimental work with open minds, seeking whatever may be found, rather than attempting to prove or discover any certain thing. That is a mighty good way to do experimental work, for an investigator who starts out to prove any one thing in animal husbandry, usually ends by "proving it."

The records of the Poultry Investigations are very complete, not only written records of the farm work but reports from state and county agents and of breeders who are co-operating with the department and a very fine collection of photographs and drawings. The information in Uncle Sam's possession is available for all interested citizens who ask for it. We believe that all progressive breeders and associations of poultrymen will find it decidedly to their advantage to co-operate with "Uncle Sam" in this work.

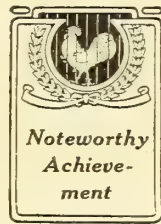


While preparation of young and old stock for exhibition should be a continuous process, one of keeping the birds in the best of health and condition, it will be well to begin special preparations now to fit specimens for the fall fairs and shows.

Plan to make a showing at your next local exhibit. Show your birds in clean, attractive coops and be sure to have them

tame and in the pink of condition. Train and handle your birds until they will stand and pose to advantage. A wild frightened specimen in a show coop has a mighty slim chance of ever winning a prize.

Help your local fall shows and they will help you. A win at the fall exhibition means sales of breeding stock, and of hatching eggs, or chicks, later on. Here is an opportunity to secure good advertising values with little effort and with much good to all concerned. Go to it!



Whether one's sympathies are strictly neutral—as they should be—or whether they are pro-Ally or pro-German, he cannot help feeling admiration for the noteworthy achievement of the people of the hard pressed Central Power, and particularly for Capt. Paul Koenig and his crew, in bringing the great under-sea merchant ship Deutschland safely from Bremen to the port of Baltimore, with a cargo of much-needed dyestuffs.

It is too early to determine whether or not mammoth submarine merchantmen will prove practical in establishing under-sea trade between Germany and the United States and it is probable that the return trip of this new type of merchant ship will prove exceedingly hazardous. If it is true that there are several more of these ships in commission and on the way to the United States, with much-to-be-desired freight, and these ships succeed in establishing fairly regular communication, then the result will be epoch making.

Whatever the outcome may be, we must take our hats off to the enterprise, pluck and perseverance of the people who made this first voyage of a big submarine trading ship a success.

According to the reports, the ship made 4,100 miles between Bremen and Baltimore, less than 100 miles of which was actually made while the vessel was completely submerged. When one is familiar with the vast empty stretches of ocean encountered even on brief voyages, the fact that this history-making craft, sailing with decks practically awash, remained unseen and unreported is not difficult to understand.

Could Jules Verne come back to review this event, he might say: "I told you so."



Read the advertising columns carefully for summer bargains. Within the next few weeks many fine breeding specimens will sell at bargain prices to enable the breeder to make room for growing stock. Do not miss your opportunity.

You will also find summer offerings of hatching eggs at attractively low figures. August hatched chicks, if well reared in comfortable quarters, make prime quality capons and soft roasting chickens, bringing good prices in the early spring and summer. Properly managed, early fall chickens will make full growth in from 22 to 24 weeks from the shell. Some excellent breeding specimens, doing good work as two-year olds, were late summer and fall hatched. Day-old chicks are being offered at very low prices, quality considered.

You should have no difficulty in securing what

you need from the summer offerings at prices that are half, or less than half, those asked in the early spring. Write and ask advertisers for special summer prices on adult stock, early hatched youngsters, eggs, or chicks. When you write, be sure to mention AMERICAN POULTRY JOURNAL; it will help you, the advertiser, and ourselves.

Beef Scrap

NITROGENOUS matter (protein) from vegetable sources will not, as poultry food, take the place of animal protein, such as is supplied in a good beef scrap, meat meal, fish scrap or milk and milk byproducts. Some wholesome form of animal protein is necessary for poultry feeding,—it promotes healthy growth, lessens mortality and increases productivity.

On natural range, where insects and worms are plenty, the fowls and chickens may do very well with little prepared animal food supplied; but when the natural supply falls short, or the birds are kept on limited range, or in confinement, then beef scrap, or some other form of animal food, becomes a necessity.

Good beef scrap is prepared from wholesome waste meat and bones from the butcher's. The proportion of bone varies, but this bone, of itself, is a valuable food as it supplies mineral matter necessary for good frame, strong body, and for well-developed tissues and nerves. Beef scrap should not have an offensive odor, but should have a sweet, wholesome, strong, meaty odor. It should not contain an excessive amount of fat or bone. It should be free from wool, bristles, ground sacking, wood splinters and other foreign matter. It is wise to screen beef scrap and remove undesirable foreign substances, for bristles, wool and ground sacking may kill chicks or even adult fowls.

Good fish scrap is made from fresh, wholesome, waste fish and is excellent for poultry feeding. Both of these products are prepared commercially in

large laboratories, and care must be taken by the buyer to see that he gets freshly prepared, wholesome, unspoiled scrap. If the scrap is lumpy, has a foul odor, and if lumps on being broken show white or green centers, the scrap is unfit for feeding.

In experiments conducted by Purdue Agricultural Experiment Station, testing the efficiency of beef scrap, fish scrap and skim-milk in feeding rations for poultry, the following facts were noted:

1. Beef scrap pen averaged 135 eggs per pullet; fish scrap pen, 128 eggs per pullet; skim-milk pen, 135.4 eggs per pullet; pen having no animal food whatever, 32.5 eggs per pullet.
2. The amount of dry matter in food to produce one pound of eggs in beef scrap pen was, 3.7 pounds; in fish scrap pen, 4.02 pounds; in skim-milk pen, 3.7 pounds; in pen having no animal food, 13.53 pounds.
3. The average food cost per dozen eggs in beef scrap pen was about one cent less per dozen than in fish or milk pens.
4. Beef scrap was shown to greatly increase the efficiency of the grain and dry mash fed.
5. The beef scrap pen produced slightly better fertility and hatchability than the other pens.
6. The birds kept without animal food showed a loss.

Supplied animal food is necessary to success with fowls or ducks and is absolutely essential to securing good growth and health in growing chickens or ducklings. Be sure that the beef scrap, fish scrap, meat meal or milk products you buy are sweet, wholesome and unspoiled. To avoid waste use the fine ground sorts in mash and the coarser sort in a hopper by itself or fed with scratch grains.

Prospects

THE United States Department of Agriculture, on July 1, reported an improvement in crop conditions during

We are getting the Red Sussex GOOD. Mr. S. C. Wood Rocky Ford, Colorado, writes: "I have a 98½ point pullet out of the eggs I got of you last year. Our local judge says she is the best female he ever handled." Write, F. L. PLATT, SWANTON, OHIO.

the preceding month and stated that the total acreage in cultivated crops is slightly less than last year. The following forecast is made for the whole United States, as compiled by the Bureau of Crop Estimates:

Corn—July 1 forecast, 2,870,000,000 bushels; production last year, final estimate, 3,054,535,000 bushels.

All Wheat—July 1 forecast, 759,000,000 bushels; production last year, final estimate, 1,011,505,000 bushels.

Oats—July 1 forecast, 1,320,000,000 bushels; production last year, final estimate, 1,540,362,000 bushels.

Barley—July 1 forecast, 206,000,000 bushels; production last year, final estimate, 237,009,000 bushels.

Rye—July 1 forecast, 44,000,000 bushels; production last year, final estimate, 49,190,000 bushels.

Tobacco—July 1 forecast, 1,190,000,000 pounds; production last year, final estimate, 1,060,587,000 pounds.

Potatoes—July forecast, 369,000,000 bushels; production last year, final estimate, 359,103,000 bushels.

Hay—July 1 condition 93.4, compared with the eight-year average of 82.2.

Pasture—July 1 condition 97.7, compared with the ten-year average of 85.7.

Apples—July 1 forecast, 72,500,000 barrels; production last year, final estimate, 76,670,000 barrels.

Prices—The first price given below is the average on July 1 this year, and the second, the average on July 1 last year. Wheat, 92.9 and 102.8 cents per bushel. Corn, 75.4 and 77.7 cents. Oats, 40.5 and 46.7 cents. Potatoes, 102 and 52.1 cents. Hay, \$12.10 and \$11.70 per ton. Cotton, 12.5 and 8.6 per pound. Eggs, 19.7 and 16.8 cents per dozen.

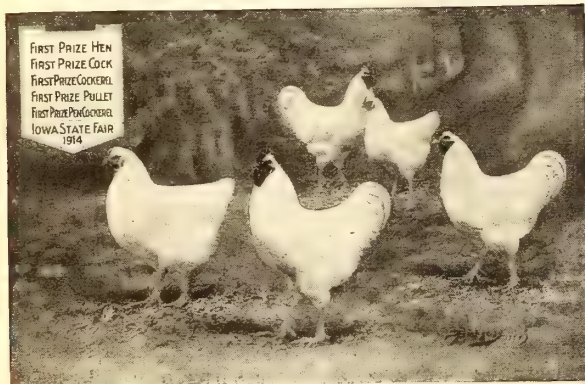
We have, thus far, had a wet season, thruout a greater part of the country, comparable to the similar wet season of 1915. Just what the effect on crops will be remains to be seen. It is quite likely tho, we may have "bumper crops" rather less than those of last year; that there will be a good deal of soft corn and poor quality oats. With somewhat smaller crops and the continued "war demand," we are not likely to experience any lower prices for grain and poultry supplies, in fact we may look for an upward trend in the retail markets.

In such sections as we have visited, or received reports from, there appears to be a scarcity of fowls and the flocks of growing chicks are smaller than common. There is, at present, a slight upward tendency in market prices offered for poultry and eggs and these should improve as the season advances.

RED SUSSEX

I have a wonderful lot of chickens this year.

Write, F. L. PLATT, SWANTON, OHIO.



U. R. FISHEL'S

White Plymouth Rocks

have won at five International Expositions, seven State Expositions and many of the largest Poultry Shows. Our winning First Prize Cockerel, the most coveted prize at every show we exhibited for the past two years is a record unequaled.

Exhibition Birds, Selected Breeders and Utility Fowls that carry blood lines no one else can give you. *Better Quality* than ever for our customers. Write me your wants please.

Eggs for Hatching at All Times

U. R. FISHEL - Box A - HOPE, INDIANA



Fashion Plate Buff Orpingtons

Eggs at half price—\$2.50 and \$5.00 per 15 from yards worth more than twice the cost

Breeding Pens \$15, \$20 and \$25—one male and four females. Don't put off longer what you have promised yourself for years.

A. E. MARTZ, BUFF ORPINGTON SPECIALIST AND JUDGE Box A, ARCADIA, IND.

Our Cover

MR O. B. Andrews, of Chattanooga, Tenn., has been a great booster for Barred Rocks down South. We take great pleasure in showing one of his fine birds of the Premier Strain on our cover this month. The picture represents the bird just as we found it in Mr Andrews' yards on Lookout Mountain and for the reason of being a natural photograph it tells the story better than a column of descriptive matter. Mr. Andrews' birds have made a very creditable showing by winning in strong competition at Chicago, Memphis and Hagerstown.—L. A. S.

DR. WOODS' NOTES AND COMMENT

LIVING WATER

The fountain in its source
No drought of summer fears;
The farther it pursues its course,
The nobler it appears.
But shallow cisterns yield
A scanty, short supply:
The morning sees them amply filled,
At evening they are dry.
Madame Guyon.

* * *

Some shallow human cisterns remind us of the saying: "On the rampage, off the rampage; such is life—just one blamed thing after another."

* * *

But, as the farmer said, after he reached the shelter ahead of the tempest, "we should worry, we're here ahead of it."

* * *

After a cold wet spring and early summer, it looks as if the weather man intended to turn out some good old fashioned scorching mid-summer days, just to show us that he can if he wants to.

* * *

Be sure that stock birds, all growing flocks and summer hatched chicks have cool, comfortable, airy quarters. Shade is particularly necessary this month and so is shelter from tempests. Drinking water should be supplied often, be clean, cool, and kept in a shady place. To do well the birds must be comfortable. If you find the hot weather oppressive, consider your flocks, and be sure that they do not suffer during the heated term. It pays to make your feathered friends comfortable and it is cruelty to neglect them in hot, suffocating coops or buildings and bare sun-baked yards. Keep your flocks comfortable and they will help to keep you.

* * *

The business troubles of the poultry fraternity have been blamed on almost everything but the Administration and on careless business methods of individual poultrymen. Perhaps our "reformers" might obtain a hint from the following editorial comment of the *New York Tribune*: "How many rainy Sundays have come in succession we fail to remember, but this we know: there can be no such calamity during a Republican administration."

**Carver's
Rhode Island
Reds and Sussex**

Do You Wish to Win? Our February youngsters are wonderfully strong and large and *what quality* our Chicago Coliseum winners have produced. We invite you to visit us and see the wonderful color and type we have this year. If you cannot visit us, get our terms *before buying* which *saves you* from taking any risk whatsoever by mail. Our customers were among the big winners this season.
A. A. CARVER, Specialty Breeder - - - **SEVILLE, OHIO**

Progressive Action of Poultry Association

THE following resolutions were adopted by the Indiana State Poultry Association at their meeting on June 22, 1916:

Whereas: The widespread and continued publicity given to cases of alleged misconduct of a few prominent poultrymen has created a distrust in the minds of many wouldbe purchasers of Standard bred poultry and eggs for hatching;

Whereas: There seems to be a desire on the part of some editors to try said cases in the public press without admitting or submitting evidence from the party or parties accused;

Whereas: The said publicity and one-sided evidence is calculated to injure the reputation and business of all breeders;

Whereas: Much of the valuable time of the American Poultry Association at the annual meet and to its detriment is absorbed by discussion of grievances between members that should be settled in the courts;

The *Nashville Southern Lumberman* says: "It is to be hoped that the American manufacturers of rifles and ammunition will serve our soldiers as efficiently as they have prepared the Mexicans." It would seem that even the blindest jingo who declaims about "patriotism and national honor," might read a moral here. It is not pleasant to think of the flower of our young manhood as targets for American-made bullets and shells, fired from American-made guns. How about the "patriotism and honor" of those who deal in war material and promote wars?

* * *

There has been a good deal written in favor of the use of cottonseed meal for poultry feeding. From our experience with it, we believe it will be wise to go slow with this foodstuff. We

Whereas: All such personal fights act as a direct injury to the honor and integrity of the American Poultry Association and the breeders of pure bred poultry;

Therefore, be it resolved: That we earnestly request said editors to discontinue the publication of said articles until the courts have ruled on the evidence and a verdict rendered.

Be it further resolved: That we hereby petition all editors who deem it to be for the best interests of Standard Bred poultry to discontinue the advertising of any individual, farm, firm or corporation that said editor set forth the reason for such refusal, make plain his objections and one announcement in his journal close the case.

Be it further resolved: That we unqualifiedly condemn the practice of cartooning or holding up to ridicule men in public life who honestly defend their positions and have the courage of their convictions.

Be it further resolved: That a copy of this resolution be forwarded to the editors of all poultry journals, with the request that it be published at an early date.

have stopped using it altogether. When used in small percentages, some lots apparently do not prove injurious but other lots cause intestinal disturbance. Even where no more than 5% cottonseed meal is used in mash for laying fowls, we have had trouble with the eggs for table purposes and where larger quantities have been used the eggs have been seriously impaired in table quality. The tendency is to yield a pale oily ring about the yolks, or spots of pale greenish oil in yolks, together with an unpleasant flavor when the eggs are cooked and even an unpleasant odor when eggs

Smith's White Leghorns

Are the Most Consistent Winners in America. Catalog telling all about them sent upon request. Eugene C. Smith, 317 Galena Blvd., Aurora, Ill.

LATHAM'S BEAUTY AND UTILITY Barred Plymouth Rks.

Choice breeding females selected from my matings of this year at very low prices.

Eggs for Hatching

for balance of season at \$5 per 15, \$8 per 30 and \$10 per 45.

C. H. Latham, Box 145, Lancaster, Mass.



2nd Prize Pullet Bred Cockerel, Palace Show, 1915

Barred Plymouth Rocks

Lady Beautiful Strain. Wonderful records have been established by my birds at *Madison Square Garden, Philadelphia and Hagerstown.* This record includes many first and other prizes. **Eggs for Hatching from these winners** at reasonable prices. Now is the time to buy. Satisfaction guaranteed. Mention American Poultry Journal.

C. N. MYERS - Box E - HANOVER, PENNSYLVANIA

are fried. As we have not been able to secure any advantage through feeding cottonseed meal to poultry and have noted certain decided disadvantages from feeding it, particularly from continued feeding or moderately free use, we believe it best to discontinue it and not experiment further.

* * *

One of our readers wants to know how the short down and tiny feathers are removed from ducks when dressing them. There are certain periods of growth when ducks are more easily picked—more free from small pinfeathers—than at others. An experienced duck grower can readily tell when ducks are "ripe" for killing. In our locality dry picking is a regular occupation of certain skilled individuals—the going price

LEITNER'S S. C. BUFF LEGHORNS

Eggs are half price now. They are the real layers and winners. Satisfaction guaranteed. Circular free. C. H. LEITNER R. F. D. 4, Box 8 ELGIN, ILL.

for dressing being usually six cents per duck. Some few pickers use an alcohol flame for removing the fine down and small feathers. The more general practice is for the picker to rub over the carcass with hand well wet with water, then shaving the skin of the duck with a keen edged knife. Hereabout, a type known as a shoe-knife is used. Skill in dressing ducks can only be acquired through actual experience and it is wise to serve an apprenticeship with a skilled picker.

* * *

A Washington (state) correspondent sends in a lengthy query which was too late for the Questions and Answers department and requests reply in this issue; he writes:

"I have been raising S. C. White Leghorns for market eggs, will have about 1,000 this fall, but desire to increase my flock to about 2,500 layers in the future.

"I have had very poor luck in raising young stock. I have always hatched with incubators and this year brooded with colony brooders.

This season I was inclined to lay my trouble to my breeding stock until I began to make inquiries of people to whom I had sold hatching eggs. I sold a good many sittings, that were hatched and the chicks brooded under hens. Nearly every sitting gave my customers from 13 to 15 chicks and most of the chicks were raised, except those accidentally killed or taken by hawks.

"My own hatches ran from 53% to 75% and I raised less than 50% of those hatched. Although I don't know a great deal about the poultry business I have been hatching with incubators for several years. This year is by far the worst in my experience. In previous years I have used adaptable hovers and raised perhaps 60% of the chicks.

"I have never had any disease in my flocks and the chicks are free from lice and mites. No diarrhoea at all. The chicks just naturally get tired of life and quit. Yet egg customers get good hatches and have almost no rearing losses; the parent stock being the same.

"I have decided to buy from 100 to 200 S. C. Rhode Island Red hens this fall to use for hatching and brooding next spring. If these prove successful will use about 300 the following season and not use brooders at all. Have read your book "How to Raise Chicks" but would like a little further information to suit my particular case.

"My plan is to fence in a piece of land about 200 feet square with 7-foot fence all around and telephone wire stretched across the top, wires about a foot apart, to keep off hawks and turkey buzzards. Turkey buzzards made away with several hundred chicks for me this season.

"Expect to make brood coops about 3 feet square and 3 feet high, and allowing pullets to roost in same until ready to be transferred to laying houses. I can place 100 coops about 20 feet apart on this plot, allowing 25 chicks to the coop and figure that with good luck I should be able to rear about 1,000 pullets, which is the number I desire to raise each year. In every other row I propose to have alfalfa and in the others sunflowers for shade. These I will irrigate so should have an abundance of greens and shade. I realize that the more room the better, but this is about all the room I have to use. Do you think this plan will prove successful?

"For setting the hens I intend to fence a piece the length of the laying house (290 ft.) along the back of same. Will build the nests in one continuous row along back of house. Will the hens get mixed up on nests and quarrel over same? I note you recommend keeping hens shut in except when let out for feed and water. Would evening be best time to let them out? If not confined on the nests, would they make trouble? I have never yet set a hen and know nothing about the management of broodies. Will 300 hens be sufficient to raise 1,000 pullets annually. I plan on setting 15 eggs under each hen and give about 25 chicks to each hen to brood. People here take the chicks from two hens to make a brood and reset the other hen. I have thought I would do this way as others appear to be successful."

That is considerable question and success in this case, as in others, will depend more on the individual than on the method. The artificial hatching and rearing of Leghorns, herein reported, should have shown much better results. Reports of natural broods show that the breeding stock is not at fault. Other Leghorn breeders are getting very good results from artificial hatching and rearing. Evidently much of the fault lies in the care and management, but at this distance we can't say where.

We prefer the natural hen method of hatching and rearing and believe that most people find it easier and more uniformly successful, but the success of our correspondent's proposed plan will depend chiefly upon himself.

Broody hens are troublesome things and a great deal of patience is required in managing them. While Rhode Island Reds are almost invariably good sitters and can be depended upon to give a fair proportion of broodies at almost any season, we do not see how one is to figure definitely upon the size of flock required to meet the demand for brood hens in this case. To raise 1,000 pullets for layers one would need approximately 400 brood hens in the months of April and May. It would take quite a sizable flock to yield that number during the

Record Birds at Reduced Prices

For the first time in the history of Wilburtha Poultry Farms we have planned a summer sale. We offer some of our choicest birds at bargain prices. Many of these superb birds could not have been bought earlier in the season at any price.

S. C. White Leghorns	White Plymouth Rocks
S. C. Buff Leghorns	Columbian Plymouth Rocks
S. C. Rhode Island Reds	Columbian Wyandottes

This sale will include such *White Leghorns* as Harvester, 1st cockerel at Palace, New York, 1915. George 8th, 1st pen cock at Chicago, 1914. *Buff Leghorns*, Prince Charming, 1st cock at Boston, 1915, and 6 other record males. *Columbian Wyandottes*, Wilburtha Prince, 1st cock at Buffalo, 1915. Cock heading 1st pen, Madison Square Garden, 1915-16 and other equally noted birds. *Col. Rocks*, 1st cock at Palace, New York, 1915. 1st pen cockerel, Madison Square Garden, 1915-16, and many others.

We have at Wilburtha Farms, as many, perhaps more, record birds at important shows than any other farm in the world. Prices run from \$15.00 up. Write us today for our *Summer Sale List*.



M. L. Chapman,
Gen. Mgr.

Wilburtha
POULTRY FARMS

D. G. Keyler,
Supt.

Chas. J. Fisk, Owner

27 River Road

Trenton Junction, N. J.



"Regal Queen," First Boston Hen 1913

REGAL SUMMER SALE

IN ORDER to make room for my large flock of rapidly growing chicks, I am offering for sale 600 selected breeders at remarkably low prices. Here are a few bargains:

- No. 27. Breeding pen of Dorcas stock, consisting of six fine yearling hens and male. A good pen to build up a heavy laying flock. Sale price, \$25.
- No. 18. Well mated pen of five yearling hens and male, all bred from special matings. Value, \$50. Sale price, \$35.
- No. 7. 300 yrlg. hens, splendid value at \$2 each.

Send for Free Sale List, giving complete list of bargains. Eggs from prize matings, \$2.50 per 15; \$4.50 per 30; \$6.00 per 45; \$12.00 per 100. Utility matings, \$6.50 per 100.

Regal Cockerels and Pullets

This season I have over 2,000 early chicks—the best I ever owned. If you want to make a winning at your State Fair, let me quote you prices.

JOHN S. MARTIN, Box 51 Port Dover, Can.

desired period. In fact it is quite probable that one would have to scour the countryside for a supply of brood hens to supplement the home flock. Of course some hens could be reset when broods hatched were doubled up, but some could not be reset and quite a number of those first moved to the hatching nests might refuse to do duty or prove poor sitters.

We like to build nests for sitters in banks of four, eight and ten; made to set that number of hens at one time. Such nests have roofing fabric roofs, wire door fronts and wire bottoms and are placed on the ground in a sheltered place, with a fair sized runway for each group. We prefer to let hens off the nests in the morning and to keep them confined to the nest after they have fed and exercised. We do not like to have more than twenty in the same yard. That is about as many as we can keep from getting badly mixed up. They are liable to mix up on nests when they feel like it and have the opportunity. Even when set together from the same flock they are liable to fight, unless prevented, the first few days when they come off the nest. After they get well used to feeding together there is little trouble.

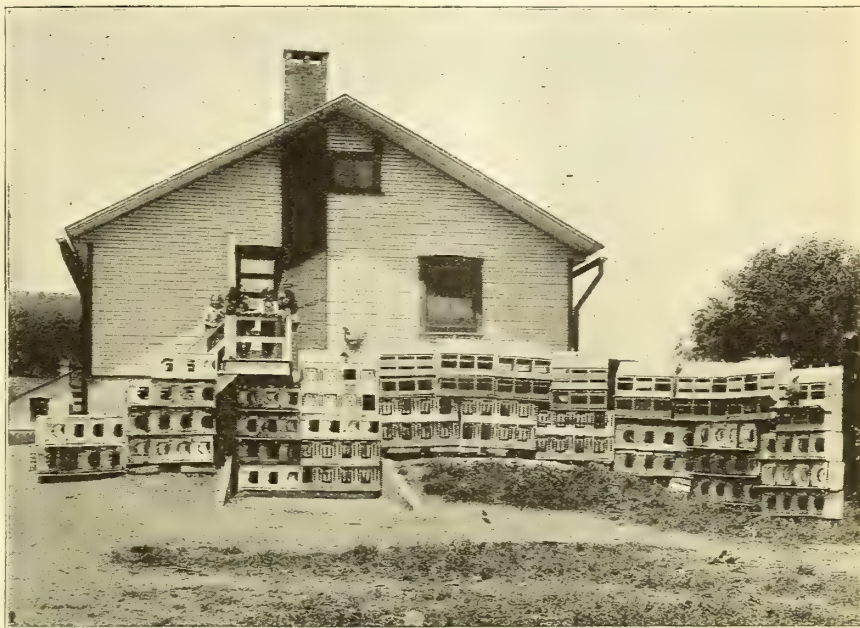
Twenty-five chicks to a brood hen is a comfortable number after the weather becomes settled, but in the cool, wet spring days a smaller flock is better to handle. The proposed rearing place is rather smaller than we should care to use continuously for growing so many chicks. To make best growth the chicks need more range. Unless the range is large, growing several broods on the same plot of ground is liable to be attended by poor results. If you average to hatch nine chicks per hen, you will be doing well. Even with irrigation and the fertile soil of the Pacific Coast, you will probably experience difficulty in growing greens and so many chickens on so small an area at the same time. We do not find an acre of grass range any too large for from 300 to 400 chicks with hens, although we have to cut the grass now and then during a wet season.

* * *

In our May issue we published a letter from C. D. Loehr of California telling of a pen of 11 White Rocks, scoring from 93 to 96 points, purchased of I. K. Felch for \$50. In the June *Item*, Editor Cornman jumped on this with both feet, questioned the score and the probability of anyone being able to buy 11 birds that would average about 94½ points each at an average price of \$4.54 each. In July *Item* "Uncle Isaac" comes back and says he did so score the birds *after he had sold them* and that "C. T. C." need not worry as there are other 95 and 96 point birds left in his yards. When we published Mr. Loehr's letter and the statement of the Felch score, we saw no reason to question it. Good specimens of the popular American class varieties are fairly common in New England and we believed that a veteran breeder and score card advocate, like I. K. Felch, would be apt to know what he was about when he delivered values for a customer's money, or when he scored such specimens by request. We were a bit surprised that anyone who has attended Eastern score card shows should question the paragraph as originally published. We have attended quite a number of score card shows hereabouts, where high scoring specimens have been sold at comparatively low prices, and some mighty good birds have

changed hands, even recently, at from \$3. to \$10. for females and \$5. to \$15. for males. We recall, a few years ago, an exhibit of Silver Laced Wyandottes at Beverly, Mass., where a string shown by a Mr. Simmonds, of Manchester, won all the blues and most of the other ribbons, including several specials. It so happened that Mr. Simmonds was in the market business and had picked up that string of birds as *market poultry* at a price (as we remember it) that was under 14 cents a pound, buying

New England have always been a favorite buying place of those who purchase quality poultry to sell again. Such conditions are not confined to New England, although probably there are more such sales here than elsewhere; we recall that at the last Palace Show in New York City, the blue ribbon pen in a fairly warm class sold for just \$25., on the floor of the exhibition hall, with all rights to the advertising value of the win: and those five birds would score pretty well anywhere—in fact, the buyer



Trap nests used on the Barred Plymouth Rock farm of J. W. Parks, Altoona, Pa.

from several growers. He was a pretty fair judge of quality and put his string into the show just for the fun of the thing to "help out the boys." We do not recall just what that string sold for, but we are under the impression that they were disposed of at an average price of less than \$5. each. It is probable that all had been reared from stock or eggs produced by a prominent Essex County specialist. In fact there are quite a few pure-bred specimens that are sold for long figures by some of our "prominent personages," that are picked up on little known New England poultry plants at prices around \$3. to \$5. each. We know of one instance where a male bird was sold by the grower for \$3. and later on brought \$50. and was considered well worth it by the purchaser. This is not "giving away state secrets," for it is a matter of common knowledge, among the well informed, that certain poultry sections of

considered one of the hens worth the price of the whole pen

* * *

J. A. Carruthers, of Colorado, who won the Buffalo cockerel as first prize in our Aldrich Orpington article contest, is mighty well pleased with the bird, he writes: "The cockerel arrived in the very pink of condition. He weighs ten pounds, is very white, has wonderful type and is pronounced by many visitors to be the best bird they have seen in this part of the country. His exceptional vigor and general fine condition, at this time of year after heading a breeding pen for nearly six months, is the highest testimonial to the condition of the Aldrich breeding yards."

* * *

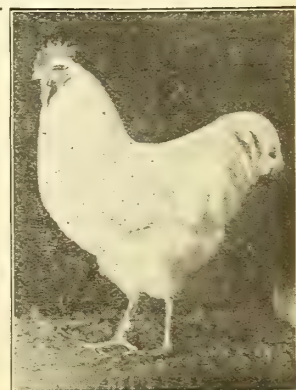
We do not often get a vacation, in fact have not had a real "two weeks leave with pay" for a good many years. Generally wherever we happen to go

HALBACH'S White Plymouth Rocks

WINNERS INVINCIBLE LEADERS

Sale Extraordinary. Get your copy of my great Half Price Sale. Never, anywhere, has any breeder offered such astonishingly outstanding bargains. Your opportunity.

H. W. Halbach, Route No. 1, Dept. E, Waterford, Wis.



there is somebody who wants to talk chicken or chicken troubles. The mail is heavy and is always full of chicken queries or articles about poultry and the American Poultry Journal has to be ready for the mails and delivery by the first of each month. One issue is never out of the way before it is time to hustle on the next number. Everybody takes it for granted that we are always eager and ready to discuss chicken topic—as a matter of fact we usually are—and we consume a considerable amount of chicken and eggs on the family table, besides conducting a modest poultry experimental farm. Yet, in common with most humans, strange as it may seem, we do have times when we would be glad to escape "talking shop." Odd isn't it that that fact should never seem to occur to our friends?—tho we will wager that if we tried to continually talk shop about their business to some of our friends, a howl of protest would go up in a hurry. Well, we had three days of absolute rest the last of June and we did enjoy it. Coming back from a trip to the Government Experimental Farm near Washington, D. C., we stopped over for the afternoon in Baltimore to see some friends. It was some hot that afternoon and we dreaded the thought of taking a train home. Then we discovered

that it was sailing day for the Baltimore and Boston steamship and decided then and there to take the ocean trip home. By great good luck we secured the only remaining stateroom on the ship and evening found us sailing down the bay toward Newport News, Va. We left Baltimore Friday evening and arrived at Boston Monday afternoon, over 10 hours late owing to storm and fog, but we certainly enjoyed the trip and would have been pleased if it had been longer. At Newport News and Norfolk, Va., we had time to look about a bit, altho it was too hot to stay long ashore and we found more enjoyment in watching the negroes stow the freight on the big boat. The ship carried several thousand barrels of new potatoes, cucumbers, green peas, snap-short beans and other early vegetables from Virginia growers to the Boston wholesale market.

Not a soul on board knew that we edit a poultry magazine or keep poultry. We met some very enjoyable and interesting people and had a delightful, restful and entertaining trip. Once outside the capes, we ran into several heavy thunder squalls and a few breezy blows that kicked up quite a sea, but most of the time we were able to stay on deck, on the lee side, snugly comfortable in a steamer chair and enjoying the storm

at sea. We do not believe we ever saw it rain harder, the heavy fall of rain pounded the choppy sea almost flat. A Southern candy manufacturer sat out one squall with us and entertained with a most interesting talk about the growth of his business, illustrating with some very delightful bonbons and chocolates. Sunday night we ran into a heavy fog and had to feel our way to an anchorage in Vineyard Sound, and on Monday we made 140 miles around Cape Cod by daylight on a beautifully calm sunshiny day. On this part of the trip we saw a big fin-back whale, which came quite close alongside and entertained the passengers by spouting twice before it sounded and disappeared. We can heartily recommend this short ocean trip to anyone with a good seafaring stomach and who is seeking just restful relaxation for a few days. We enjoyed it thoroughly, altho we have made the trip many times.

* * *

One of our readers complains of a lot of chick food bought at \$3. per bag, that it is "full of little insects, part of the granulated grain looks blueish and all has a faint musty smell," and he wants to know if it is fit to feed. We should return this lot of feed at once and demand our money back. It is evi-

Hundreds of Early Hatched

Aldrich White Orpingtons Ready to Win at the Fall Fairs

OUR early hatched birds are now ready to win at this season's shows, and the quality of our birds this season is better than ever. On account of the increased demand from our many customers, we have reduced our advertising one-half and this enables us to give better values than ever before. If you desire to get your share of the increasing business in the White Orpingtons during the coming season, you should make a good win at an Early Show.

In placing your order for your winners, remember that we are the largest farm in America devoted entirely to breeding the highest quality White Orpingtons and we have devoted our entire time and attention for many years to improve this one breed. With over \$50,000 invested in foundation stock and buildings, no detail is lacking that is necessary to breed the very best quality,

and at the least expense, thus enabling us to furnish our customers high quality at reasonable prices.

Aldrich White Orpingtons have been the largest winners at Madison Square, Chicago and all of America's best shows for years, and at thousands of other shows in all parts of America and Canada our customers have won the most coveted prizes, while their high egg-laying ability has been proven in the National Laying Contests.

Place your order early so we can reserve you a winner. A small deposit at this time will secure your birds and we will sell no one else for your show. Prices of fine Show Cockerels bred from Chicago and Madison Square winners, range from \$10.00 to \$50.00 and Pullets from \$7.50 to \$20.00. Pens, \$25.00 to \$100.00. Utility Cockerels \$5.00 and Pullets \$3.00 each.



FIRST COCK
Chicago Coliseum, 1915

If You Want to Win, Write Now

ALDRICH POULTRY FARM

5078 N. High Street

COLUMBUS, OHIO

MIDNIGHT, AUGUST 31st

the half-price sale of Aristocrats positively ends. Watch that date. Probably the greatest and most sensational sale in the history of Barred Rocks. Have you investigated this sale? If not, write today for full particulars, or if possible, tell me just what you may need. Remember, this great special sale closes absolutely on August 31st, 1916, at midnight.

W. D. HOLTERMAN, Fancier, Box A, FORT WAYNE, INDIANA



Young's Strain S. C. White Leghorns

I HAVE NO OTHER BREEDS

Acknowledged thruout the world as being the standard of all the Leghorns of all America, and the leaders of heavy layers. Eggs at half price remainder of breeding season. I have hundreds of yearling hens for sale. Why not come to headquarters and get the best. Mating list free.

D. W. YOUNG

:::

Box E12

:::

MONROE, N. Y.

Partridge Rocks

AMERICA'S
PROVEN
CHAMPIONS

Bronze Turkeys

Stock and Eggs for sale. Send stamp for Turkey or Chicken catalog giving price of Stock and Eggs and our great Madison Square Garden Prize Record BIRD BROS. :::

MEYERSDALE, PA.

dently old, stale, chick food! full of weevils, musty and spoiled so that it will undoubtedly sicken or kill the chicks. Do not attempt to feed it.

* * *

Several readers have asked for the address of the laboratory in Buffalo interested in the study of cancer in poultry. For information on this subject, write to the Director of the State Institute for the study of Malignant Disease, Gratiwick Laboratory, Buffalo, N. Y.

* * *

Whitewash is an excellent thing to sweeten and brighten, as well as disinfect poultry buildings and coops at this season. A good whitewash for inside and outside use, may be made as follows: Slake one peck of quick-lime in scalding water, keeping the lime just covered with the water while slaking. Strain thru burlap or coarse cloth. Then add two quarts of fine salt dissolved in warm water; one pound of fine rice meal boiled in water to a thin paste; one-fourth of a pound of whiting; one-half pound of glue dissolved in warm water. Mix the whole thoroly and keep for a few days in a covered barrel, stirring the whitewash now and then to keep it smooth. Heat this mixture before applying and put it on thoroly and evenly with a white-wash brush. If properly prepared and applied, it is equal to, and cheaper than paint, and it should not rub off.

* * *

The late J. J. H. Gregory, veteran seedsman and farmer, said of poultry manure: "Unless chemistry is wrong it its teachings, we generally overestimate the value of the droppings from the poultry house as fertilizer. One source of this error has arisen from the fact that the ammonia in hen manure is in a more available form than in barn manure, and therefore crops to which it is applied start off with greater vigor. Average hen manure, taken fresh from the coop, chemists tell us, contains the same amount of potash and phosphoric acid as average barnyard manure, and 1 3/5 as much nitrogen. This would make hen manure (assuming it to weigh when fresh about the same as stable manure, which by actual test I found to be a fact—48 pounds to the bushel), worth about 11 3/5 cents per bushel, gathered fresh, when stable manure is worth \$6.50 per cord. *** I find that a single fowl will drop under the roost about a bushel of fresh manure in a year."

* * *

We visited a successful egg and broiler plant recently. The family was away from home and the proprietor was entertaining himself holding a private recital on his phonograph; we noted that he had a fine library of records and a good deal of it well chosen classical music. "Well," said he, "you caught me loafing and grinding out 'canned music' to get my mind off chicken troubles. Here in the backwoods that phonograph is a real blessing. When things don't go just right and chicken problems are vexing, I shut myself in here and reel off a little music until I get into a frame of mind, where I can tackle the work again with a clear head and renewed vigor. It is wonderful how a little music helps to straighten out difficult and discouraging conditions. I feel right now that I know what to do with that troublesome lot down in the brood-

Chicks 7 Cents Each

Hatched from Free Range Stock

50 Poultrymen Raise Eggs for Us, for which we pay a fancy price. These poultrymen are special breeders of certain varieties—they take extra good care of their birds and allow us to inspect their flocks and reject birds that are not up to the top-notch. That is the big reason WHY 20th Century Chicks always are strong and healthy and grow fast into money-makers.

Our Ironclad Guarantee—every chick we ship is guaranteed true to name, full count as ordered, and of a certain standard high grade just as represented. We deliver them boxed in perfect condition at our express offices and always put in more than ordered—this guarantees you against loss.

Barred Plym. Rocks and S. C. W. Leghorns our Specialty

August 14th will be our last shipment for this season; send orders in early for that shipment.

	Per 25	Per 50	Per 100
S. C. Brown Leghorns	\$2.00	\$3.75	\$ 7.00
S. C. W. Leghorns	2.25	4.25	8.00
Barred Plym. Rocks	2.75	5.50	10.00
R. C. R. I. Reds	2.75	5.50	10.00
Broiler Chicks	2.00	3.50	6.75

Send Order Today with certified check or money order—our large capacity of 70,000 chicks per hatch—15 years' experience—plus healthy chicks, insures you against loss and we always ship at once.

Write for our Handsome Free Catalog.

20th CENTURY HATCHERY

Formerly Chatfield, Ohio

Box 3 New Washington, Ohio



Dog Kennel

No. 4 Poultry House for 200 hens—5 units

No. 3 Poultry House for 30 hens

HODGSON PORTABLE HOUSES

The Hodgson poultry and dog houses enable you to take care of the stock with the least amount of trouble. This dog kennel is well ventilated, sanitary and storm-proof. The poultry houses are made of red cedar, vermin-proofed, and are absolutely complete inside. All neatly painted and made in sections that can be quickly bolted together by anyone. Send for illustrated catalog.

E. F. HODGSON COMPANY Room 332, 116 Washington St., Boston, Mass.
6 East Thirty-ninth Street, New York City

Wyckoff's S. C. W. Leghorns

Acknowledged Everywhere the World's Greatest
Laying Strain—Unequaled in Standard Qualities.

REMEMBER that we are the originators and for thirty-five years specialty breeders of the justly celebrated **Wyckoff Strain of S. C. White Leghorns**—the most profitable strain of poultry in America today. Place your orders at headquarters and make no mistake.

We are now offering hundreds of fine

C. H. WYCKOFF & SON

yearling hens, yearling cocks and April, 1916, hatched free-range-reared cockerels and pullets, all a grand lot of birds that are sure to please. As the demand is very great, we advise that you place your order early. Send for catalog and testimonials from satisfied customers from all over the world.

Address,

AURORA, CAYUGA CO., N. Y.

"Premier" Partridge Wyandottes

The International Winners. Have won the majority of the prizes wherever shown. Unexcelled for Beauty and Utility. We are offering good yearling hens during Aug. at \$3.00 each or \$25.00 for ten. Illustrated catalog FREE. Mention American Poultry Journal.

SHEFFIELD FARM

H. B. Hark, Mgr. Poultry Dept.

GLENDAL, OHIO

Treat yourself PAPE'S S. C. BLACK MINORCAS to a pen of

They simplify the whole problem of good living at moderate cost. They are acknowledged "BLUE" and "SPECIAL" ribbon winners and marvelous producers of LARGE WHITE EGGS—unsurpassed for quality and flavor. As a table fowl they are delicious. Am quoting introductory prices on chicks 1916 hatched, yearling males, fine laying hens, pullets, and on exhibition and utility quality pens. Tell us about your ideas—we will help you. Write us today.

CHARLES G. PAPE

Box B-74

FORT WAYNE, INDIANA



Unnecessary to Change Your Formula

If you have worked out a ration formula that is bringing you excellent results in strong, healthy birds and plenty of eggs during all seasons, it will not be necessary for you to change your formula in order to obtain still more satisfactory results.

French's Poultry Mustard

is a tonic or conditioner that is added in small quantities to any ration. It is inexpensive because it is added in such small quantities. One of the world's most prominent poultrymen who used a formula that had produced very satisfactory results for him was persuaded to add Poultry Mustard to that ration and the result was that six pullets fed with the mustard addition laid 13½ dozen more eggs from October to April than did six pullets of the same hatching which were fed only the regular ration.

The details of this experiment and a few words from prominent American poultrymen who are using French's Poultry Mustard successfully, is to be found in a 32-page booklet which will be sent on request.

THE R. T. FRENCH COMPANY
Dept. A Rochester, New York



RECORD
228 EGGS

VIBERT R. and S. C. REDS

Splendid, large, vigorous, hardy, non-broody, deep, rich glowing red. Egg rates 204 to 227 eggs. Selected, mated and of the very cream of M. V. Vibert's famous flock. Astonishingly low prices on eggs, breeders, 8 week stock. Full particulars upon request.

MUSKOWADO STOCK FARM
Box 132 Pembine, Wis.

Buttercups

Stock for sale. Fine laying line of well marked birds.

Tiffin Poultry Farms and Hatchery
Department A, Tiffin, Ohio

Morris White Orpingtons

At Madison Square, January, 1916, they won for us five firsts and two seconds in a chance for five firsts. We have the type, snow-white color and heavy bone. Correspond with us. You will want them later.

THE MORRIS POULTRY FARM
Route 1, Lebanon, Ohio

John Schabell's Single Comb White Leghorns

Breeding hens and cockerels, May hatch. All breeders trap-nested.

JOHN J. SCHABELL
3331 W. Cuyler Avenue Chicago, Illinois

PREPAREDNESS IN PARTRIDGE ROCKS

We are prepared to prepare you for the Fall shows. No Sunday business. Mention A. P. J.

Meadowlawn Poultry Yards, Dept. C. D., Sand Creek, Mich.

Gensch's S. C. White Orpingtons

Bred to win and lay. Big winners at Coliseum Show, Chicago, December, 1915.

F. M. GENSCH Box G-2 OMRO, WIS.

GOLDEN WYANDOTTES

200-egg strain. Won 1st cock and championship at World's Fair, 1915. Write for circular.

J. S. PENNINGTON, Box A., PLAINFIELD, ILL.

er house. They had my goat this morning, but, believe me, I'm going to put every last one of 'em into the market at a profit—they seemed a discouraging lot this morning, but my little mid-day concert has convinced me that 'most troubles never happen' and I'm going to win." He did! "Canned music" is a simple and easy remedy for the "blues,"—this poultryman's philosophy is worth considering. Try it yourself when things seem to be going wrong.

* * *

Indigestion and intestinal irritation are common summer troubles. The chicks get weak legs, wabbly, droopy, and mope around or have fits. Should trouble start, first stop feeding, then try to find the cause and remove it. Fasting for a few meals won't hurt the brood of chicks a bit. Before giving the chicks the regular ration again, keep them for a few days on a diet of scalded sweet milk, thickened to consistency of cream with well-boiled white bread flour and season with just a little salt, nutmeg and ginger. Return to the regular ration gradually. Boiled flour is prepared by putting good white flour into a muslin sack, tying it up tight close to the flour; then plunge it into boiling water and boil vigorously for six hours. Take the ball of boiled flour out of the sack and dry it in the oven, but do not scorch it. Grate or pound this up and use to thicken the scalded milk. Prevent chicken troubles by common sense management. Keep your chicks comfortable. Provide cool shady, clean quarters in hot weather. Feed plenty of greens and a variety of good wholesome food and supply cool, clean drinking water frequently. Do not allow the chicks to get very hungry, feed often and only a small amount at a time. Do not permit food to lie about to get stale and dirty and sour. What the chicks need most can be summed up in one word—*Comfort*.

* * *

Over fifty years ago Simon M. Saunders, of Staten Island, N. Y., said: "There is neither so much profit, nor so much honor, in gaining prizes with bought birds as with those that have been bred at home." A real fancier can get a lot of satisfaction out of winning ribbons on birds bred, reared and brought to exhibition perfection thru his own study and efforts. Anyone with the price can buy winners. Winning on bought birds may possess advantages in a commercial way, but it is not conducive to the best development of fancier-ship.

* * *

Have you ever noticed how a good many folks veer and shift about in their opinions, like a weathercock on a squally day? There is a reason. In some cases this fickleness of purpose and prostitution of opinion appears to be due to stimulation of the "pocket nerve." The highest bidder, or the man who comes across with paying business, is favored. Elevating commercialism isn't it?

* * *

J. R. Brown, New Berlin, Ohio, writes: "I have read with much satisfaction your notes on page 929, *JOURNAL*. I heartily commend your wise and high moral view taken, as well as your courage to 'speak out in meeting' against what may be an encroachment upon American ideals and the forcing of militarism, if not Chauvinism upon us by our misguided politicians. Thank



Happy Hens

will return to this house which is being freed from all Mites and Lice by fumigation with

Fumoth Fumigators

The new, easy and quick way. No more spraying and exposing oneself to these mites. Two required for a 10 or 12-foot house; one fumigation cleans them all out. Requires only a half hour to do the fumigation, and it is play—not work.

The fumes go into all the cracks and crevices and permeate the straw, killing every insect, which is not possible with spraying. No after odor remains—can return fowls immediately afterward. Fumes kill instantly and not by suffocation, like sulphur or formaldehyde, and not dangerous to man. Used by prominent poultrymen. 2 for 25c, 5 for 50c, 12 for \$1, postpaid. Money refunded if not satisfactory. Also kill Mosquitoes and House Moths. Order today or send for circular.

F. A. THOMPSON & CO. 515 Trembley Ave. DETROIT, MICH.

SEX CONTROL Spok Ahne Langshans

Thos. F. Rigg is breeding Langshans and says: "They are the best ever."

Dr. Prince T. Woods "after many years with many breeds" is getting a lot of satisfaction out of his "Lordly Blacks."

These men are not faddists, but are practical poultry breeders; they are not alone, but hundreds of other practical breeders are finding that the Langshan will lay more eggs, and produce more pounds of meat than any other breed on earth from the same feed. The Langshan is the world's oldest domestic fowl, and our strain is the world's first all-female producing strain. Can spare a few pens, fully pedigreed and guaranteed to give you 75% females or replace free. No extra males.

HERB E. SHARP LAN SHAN FARMS
R. F. D. No. 3, Spokane, Wash.

Talk About Disinfectants

Crude Petroleum

is the daddy of them all. When used on roosts lice and mites go quick and stay away a long time.

\$5.00 for a 50-Gallon Barrel

A dollar extra for barrel but refunded when returned.

E. G. CARL SHREVE, O.



288-egg line. S. C. White Leghorn cockerels. Big, strong birds out of big eggs.

Rose and Single Comb Browns, hens, cocks, pullets and cockerels.

S. C. Reds—248-egg line. Show birds and breeders.

W. W. KULP
Box 70, Pottstown, Pa.

Ward's Champion BUFF ROCKS

Exhibition and high class breeding stock, both old and young ready for the early shows, for sale.

R. W. WARD - NORMAL, ILL.

IMPERIAL BUFF WYANDOTTES

Young and Old Stock For Sale.

Write your wants.

W. F. SCHULTZ, Box 97, CUYAHOGA FALLS, O.

Powers' White Wyandottes

Bred to fill the Egg Basket. Write us your wants.

J. H. POWERS POULTRY YARDS
7920 Bennett Ave. Chicago, Ill.

Mention AMERICAN POULTRY JOURNAL when writing to advertisers.

you for taking your stand on the side of that which is best for ourselves and humanity. Heaven bless you in the work."

* * *

Dr. Frank Crane says: "Opportunity does not knock only once at a man's door. That is a sickly fancy. Opportunities stand in line at my door every day, crowding to get in."

* * *

Right now is a good time to look over your prospects for next season's breeders. Culling out the undesirables should be a continuous process of elimination. Select for prospective breeders the strong, sturdy, vigorous, hardy, healthy specimens that are well developed and matured for their age. In choosing breeding stock be sure that it has been healthy at all stages of growth. So far as is possible it will be wise to breed only from birds that have never had a day's real sickness. This applies to both sexes. It is advisable to know the parentage and ancestry of stock to be used for breeding and, where you can, make sure that the birds you select for breeders have been bred from sound, healthy stock, so that they may have a hereditary tendency to health or ability to resist disease. Take especially good care of prospective breeders. Keep them comfortable and well fed, but do not overfeed; aim to keep them in good sound physical condition.

* * *

Ed. Howe, "The Sage of Potato Hill," says: "We Americans are threatening to prepare for war with the enthusiasm of Napoleon and the extravagance of Boss Tweed. If we prepare vast machinery for war, it will be just our luck that some fool will be in charge of us at a critical time, and use it on too slight provocation."

That is a situation worth thinking about. It may be well to remember Frankenstein. A monster, like the modern war machine, might, in the hands of a powerful group of imperially-minded politicians, even be turned against the people who created it.

* * *

Rats, flies and mosquitoes annually kill more of our people than any foreign foe ever has or is likely to. Why not turn our army loose to make war on and exterminate these vermin and the hordes of insect pests that are destroying so many million dollars worth of crops and growing timber? If we really and truly do value the lives and property of our citizens, there is abundant good work that needs doing without starting a mankill. Maybe real patriotism, like both Christianity and charity, should begin at home.

* * *

After reading many columns of near-fiction and half-truths reporting the sleuthing methods employed by a certain gum-shoe poultry editor, ferreting in American Poultry Association executive meetings, and investigations of numerous poultrymen thruout the country, and now many pages more wherein the self-appointed detectives direct their attention to my humble self;—and an ex-editor, who is seeking to get the present secretary's job away from him, vents his venom in most contemptible falsehoods, in co-operation with the man who once pulled his whiskers and called him a liar beneath contempt,—we cannot help wondering how much longer the fraternity is going to stand for

Sherlock Holmes' methods and looting. From recent developments we are reminded of the remark of Henry

Ward Beecher, that: "Every man should have a fair-sized cemetery in which to bury the faults of his friends."



Make War on Mites

Scrape up, sweep up, scrub up. Scrape right down to fresh clean wood. Then paint and disinfect. Don't rely on whitewash, for says the Washington Experiment Station (Bull. No. 74), "Neither air-slacked lime nor whitewash will eradicate mites." Use

CARBOLA
The Disinfecting White Paint

Snow-white mineral paint combined with the world's strongest germicide. Kills lice, mites, nits and fly eggs, also the germs of roup, canker, white diarrhea, and other deadly diseases. Absolutely harmless to the birds. Unexcelled as a lice powder. Comes in powder form. Mix with water and it's ready to use. Put on with brush or sprayer. Gives a beautiful, smooth white coating on any surface that positively will not peel, blister, or flake.

Use It Instead of Whitewash

to paint health and sunshine into poultry houses, dairies, stables, and cellars. Paints and disinfects at one operation, saving one-half the labor and expense. Endorsed by all the leading Experiment Stations and prominent poultry and dairy farms.
10 lbs. (10 gals.) for \$1 and postage. 20 lbs. (20 gals.) for \$2 delivered free.
50 lbs. (50 gals.) for \$4 delivered free.

If your dealer will not supply you, write us sending his name. Send 25 cents for trial package—enough to paint and disinfect 250 square feet.

CARBOLA CHEMICAL CO., DEPT. I, 7 EAST 42d ST., NEW YORK CITY

Write Your Own Guarantee

on the greatest, most practical coal-burning brooder ever made. Burns 24 hours at one coaling. Self-feeding, self-regulating, everlasting. Broods 100 to 1000 chicks. Used by over 10,000 big and little breeders. The

Standard Colony Brooder

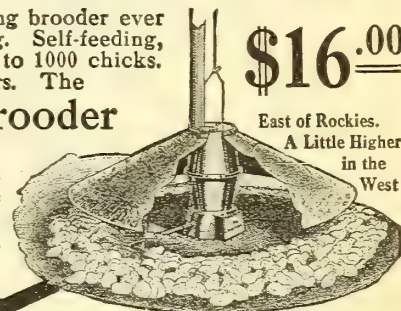
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will do anything any other brooder will do regardless of price, and do it better. We sell it on thirty days' trial. Write your own guarantee. Beware of imitations.

Book of Proof—Free. Write for it or ask your dealer. Some territory still open. Write for proposition.

Agents Wanted

THE BUCKEYE INCUBATOR CO.
501 Euclid Ave. Springfield, O.



East of Rockies.
A Little Higher
in the
West

\$16.00

LEN SMALL PRES.
KANKAKEE

J.F. PRATHER TREAS.
WILLIAMSVILLE

B.M. DAVISON SECY.
SPRINGFIELD

ILLINOIS STATE FAIR
SPRINGFIELD

"GREATEST FAIR ON EARTH" **SEPT 15 TO 23** **INCLUSIVE** **SPECIAL FEATURES**
\$85,000. IN PREMIUMS
\$25,000. IN SPEED

THE FAIR OF QUALITY

BURDIN'S AUTOMATIC
SAFETY-LOCKING
REMOVERS

UNOBSTRUCTED VISION
ACTION FREE AS AIR
POSITIVE AS A VISE

NEW CAPONIZING TOOL



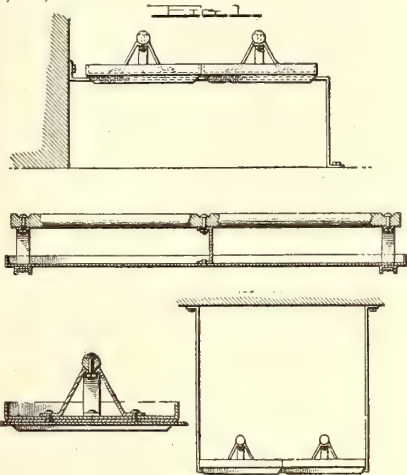
"The instruments arrived O.K. They are a great improvement over any I ever saw or used and in my opinion are ideal. I used the ———, and Burdin tools at a field meeting on May 30th, 1916. The advantages your possess over these two leading makes was apparent to every one."—S.C. BABLE, Sec'y Nat. White Wyandotte Club, New Cumberland, Pa. This is not an isolated case. Similar letters received daily. There's a reason. All sales made on money-back basis. Not one set returned or failure reported to date. You are urged to make comparisons on the broadest possible basis, without fear or favor. Just a plain, open, free-for-all challenge to all makes everywhere. Please note design of my removers. Unobstructed vision. No fickle or stubborn springs to deceive, baffle or tire you. The automatic lock insures uniform tension, safety and success. In adjustment, material and workmanship they are as responsive and accurate as a surgical instrument. Complete set with instructions, \$4.50; Removers alone, \$3.00. All charges prepaid. Illustrated literature free. Demonstrating agents wanted. S. K. BURDIN, 66 Tranby Ave., Toronto, Ont.

Recent Inventions for Poultrymen

By *Lester L. Sargent, Patent Attorney, Washington, D.C.*

GEORGE K. GILLETTE, of Pembroke, Massachusetts, is the inventor of a self-regulating chicken feeder, the patent rights for which have been acquired by the Watson Manufacturing Company, Lancaster, Pennsylvania. It consists of a box of rectangular shape which is swiveled on a metal supporting rod, passing thru it in a central region so as to permit the tilting of the feeder and its contents upon slight pressure. Two stops on the side of the box, limit the arc thru which it may tilt. A narrow ledge prevents feed from over-

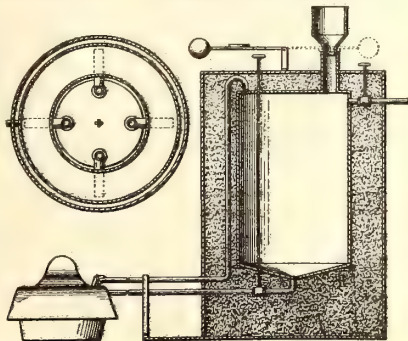
steady supply to flow down to the open portion of the box. The tilting motion of the box also tends to discourage roosting on its edge. The patent is No. 1,184,686.



Poultry Roost, patented June 13, 1916, by David E. Lindbloom, McPhearson, Kansas. Patent No. 1,186,669.

A poultry roost, invented by David E. Lindbloom, of McPhearson, Kansas, can be easily kept in a clean, sanitary condition and free from insects. The roosts are supported from hangers depending from the ceiling, or from braces having offset feet for attachment to the wall and floor respectively. The roost consists of a rod to which tray members are suspended, the rod also serving as a handle for carrying out the tray for purposes of cleaning. Roost and tray are made in short sections so that they can be easily handled. Patent No. 1,186,669.

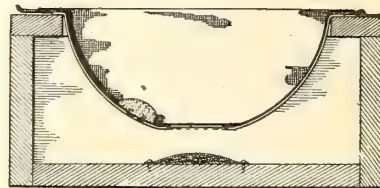
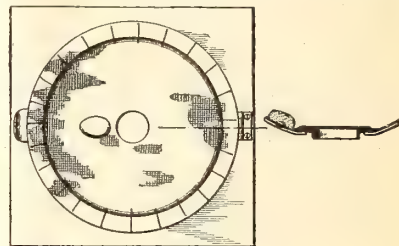
Charles E. Maple, Omaha, Nebraska, has invented a poultry fountain by which water can be kept at the proper temperature for many hours. The water tank is encased in a non-conducting packing that tends to maintain the temperature of the water. In winter the supply tank is heated by a lamp. The drinking pan is disposed at one side of the pan and supplied with water by a



Poultry Fountain, patented June 6, 1916, by Charles E. Maple, Omaha, Nebraska. Patent No. 1,186,412.

horizontal supply pipe. A valve regulates the supply of water or closes it entirely at night if desired. Patent No. 1,186,412.

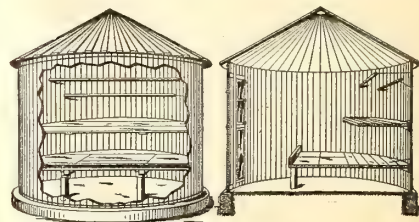
A hen's nest devised by John D. Shivel, Porter, Michigan, has an opening in the bottom of the nest proper and a separate compartment beneath to trap



Hen's Nest, patented June 13, 1916, by J. D. Shivel, Porter, Mich. Patent No. 1,187,187.

the egg as soon as it is laid, where it will be out of reach of the hen, and yet readily removable by the attendant. Patent No. 1,187,187.

A poultry house which may be adjusted to properly accommodate a brood of poultry during any part of its life, is the joint invention of C. C. and G. W. Moore, Unadilla, New York. It has a scratch floor, spaced above the bottom of the housing and a dropping board



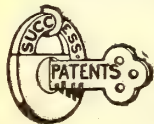
Poultry House, patented June 6, 1916, by C. C. & G. W. Moore, Unadilla, New York. Patent No. 1,186,326.

arranged above the scratch floor and covering about one-half its space. Above the latter are roosting bars. The arrangement permits of a free circulation of air while providing large floor spaces on different levels. Patent 1,186,326.

WITTE Engines

EVERY SIZE A BARGAIN. 2, 3, 4, 6, 8, 6 H-P, 12, 16 and 22 H-P. Kerosene, Gasoline, etc. WITTE ENGINE WORKS, 3030 Oakland Ave., Kansas City, Mo. \$89.90

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Horticulture for Poultry Keepers

Conducted by Thos. F. Rigg, Iowa Falls, Iowa.



UNLESS THE WEATHER MAN makes a change in what seems to be his settled policy, there will be no hot and sultry days in August—at least in the central west. At this writing the days are just comfortably warm with cool nights. The corn crop prospects are not good.

It has been a very favorable season for fruits of all kinds. Also for potatoes, peas and many other crops. We have just completed the harvest of our gooseberries. As usual the supply was not equal to the demand. Oregon Champion was the topper in yield, giving us nearly one-half more than any other variety. All of our new planting will be of this variety. Unlike Downing and Houghton, the berries do not run to small ones on aged bushes. We have quite a planting of Carmen which is of no value. Our Portage berries are so large that people do not want them, the prevailing idea being that the berries are not so good in quality. Mrs. Rigg says this is a mistake. They are certainly of wonderful size and I like them. The bush attains great size and is very productive. Again Red Cross and Diploma currants outyield all others and gave us the best financial returns. They are wonderful varieties. I would plant no other. There is some demand for black currants and we will have about 100 bushes come into bearing next season.

It is necessary this month to keep a close watch for the second (or it may be the one hundred and second) crop of Aphis on the young apple and plum trees. Use Black Leaf 40 about one and one-quarter teaspoonful to a gallon of water.

Go thru the currant field and clip off about one-quarter of this season's growth from each new cane. This will put fruiting buds all along each cane.

During July, I budded several young apple trees. Next season the branches beyond where I put the buds will be cut off and the trees will be changed into trees of the same varieties as the buds. It is the best way to top work young apple trees.

Clean out all obnoxious weeds this month. Now is the time to make the killing.

It has been a poor year for the bees and the honey yield is low. The continual cool weather made conditions bad and we were fooled on our estimate regarding white clover.

* * *

In answer to T. H. Holmes, Minnesota:

One of the chief reasons for the failure of plums thruout the northwest is that they are propagated on tender roots. Thruout the east and south the plum is usually propagated on Myrobalan, a native plum of France, or on Marianna, the wild plum of the south. These roots will not stand the

severe cold of the winters in the north-east. In ordering plum trees, specify that they must be worked on the root of the wild plum of the north.

* * *

I have four letters in which each writer wants to know why I advise planters not to use bush fruits or peach trees as fillers in a young apple orchard. I have heretofore given my reasons for so holding in the planting of an apple orchard, but I think the following from A. C. Weed, Wayne County, New York, is so good that I am going to use his article which appeared in the *Rural New Yorker* as an answer to my inquiring friends. Mr. Weed says:

"Our objection to planting currants and berries among peach and cherry trees or to

planting peach or cherry trees as fillers in an apple orchard is based on the vital difference in the manner of growth and of fruiting of the two groups. Apple and pear trees and berry and currant bushes do not bear heavily if very great wood growth is made and in some cases fruiting may be stopped entirely by too great stimulation. Peach and cherry trees (especially peaches) on the other hand, require heavy feeding and general treatment which will favor great growth of the trees. This difference is well shown by some experiments which have been recently reported from Cornell University. As is well known it is best in most cases to have a stock which grows not much faster than the scion we are to use, but it was found that in the case of sour cherries the strongest growing stock (Mazzard) was by far the best. In the case of peach trees it is useless to look for much fruit, or even for a healthy tree, unless special effort is made to keep them growing very fast. Currant and berry bushes under the same treatment would be likely to make very great bushes but give little fruit.

Pabst S.C. Wh. Leghorns Stock Farm

Harlo J. Fiske, Mgr.
Box C
Oconomowoc,
Wisconsin

DO NOT send your orders for show birds to the East this year. Give us a trial and place your order early. We have the best lot of show cocks, hens, cockerels and pullets that I have ever seen, and we guarantee them to win at any show in the world. A few eight weeks old pullets from trap-nested, high-record birds are now for sale.

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are guaranteed to make more trips than the coop you are now using. We also guarantee a saving and a large one too. We are ready to prove our statements. You will eventually use the round cornered coops. A hundred reasons why. Get our interesting booklets and special offer, free for the asking. Special crates, etc., made to order.

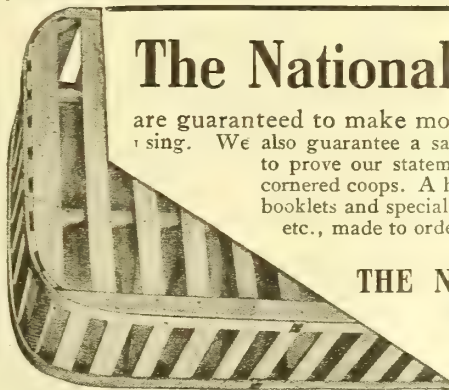
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"It is possible to imagine a case where peach trees might be profitably planted as fillers in an apple orchard. This would be where the owner felt that the apple crops he might fail to get before the trees were 12 to 15 years old would be paid for by the increased crops that could be harvested later from the larger trees. It is certain that while the peaches were in the orchard the apple trees would grow more rapidly, and bear less than they would if the peach trees were not planted there if the land is worked so, as to get the greatest production of peaches."

* * *

A few days ago I received a number of diseased plums from G. B. Hadley, of Iowa. Had not a letter arrived with them explaining what they were, I would not have been able to identify the fruit. They had no appearance of the plum. If you will take a banana skin and turn it inside out you will have something nearly like these plums in appearance. Mr. Hadley said they were taken from a Wyant tree, he having picked a peck from a tree. I could not give him any information as to the nature of the disease or tell him how to spray to rid the tree of the disease. I sent the diseased plums to Prof. S. A. Beach of the Iowa State College at Ames, and secured the following reply:

"The swollen plums which you sent to me are affected by a fungus disease commonly called plum pockets. The fungus is known to botanists as *Exoascus communis* and is very similar to that which causes the disease on peaches known as peach leaf curl. So far as I know no experiments have been carried on for treating plum pockets but it is known that the peach leaf curl may be kept in perfect control by proper treatment and possibly the same treatment would be equally effective against plum pockets. This treatment consists in spraying with some caustic preparation before the buds break, as indicated on page 23 of Extension bulletin No. 35, which is sent you under separate cover. This work should be done early in the spring and not later than the first of April. Either Bordeaux mixture or the lime sulphur wash or even whitewash alone may be used for this purpose. Should you try this treatment next spring I should be glad to have you report the results. If you should try the spraying it would be well to leave some trees unsprayed for comparison with the sprayed trees."

"I would suggest that you pick off the swollen plums which are affected by this disease, since they easily become infested with another fungus, the monilia, which causes the ripe rot of plum fruit and this might spread more readily to the sound fruits in case the plum pockets are left on the tree than it would if the diseased plums were removed."

"This disease does not affect the plums of the European class such as Lombard, Damsen, etc."

"I am referring your letter and the accompanying samples of plums to Dr. I. E. Mulhus, who is now in charge of the plant disease work in this institution. Possibly you may hear from him later."

To the best of my knowledge and belief, this is the first appearance of this disease in northwestern Iowa. Plum growers should read carefully the foregoing letter from Prof. Beach.

* * *

Again the Little Marvel pea has given us our most bountiful crop. I believe this to be the most desirable of all early peas for the home garden. It will outyield Notts' Excelsior two to one.

* * *

L. B. Good, Montana, wants to know something definite about the Hansen hardy hybrid plums. These plums were originated by Prof. N. E. Hansen of the South Dakota Agricultural College. The plums are all hardy in the extreme north and the fruits are of good size and quality, the trees coming into bearing very young. The choice of these introductions, I think is comprised in the following:

SAPA: a cross of the *Prunus Besseyi*, a favorite fruit of the Sioux Indians,



Licecil
Kills Lice

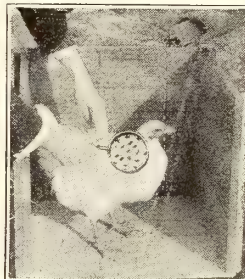
Prove It Yourself

Put a lousy hen in a box, pour a little *Licecil* down inside of box. Lice will soon appear on outer surface of feathers and fall off dead. Treat your poultry

house as directed and get same results. The "Seeing Is Believing" folder tells how other poultrymen fight lice and why they reorder *LICECIL*. A post card brings the folder. Order *Licecil* today and prove it yourself.

Bottle 50c; 3 for \$1.25. Canada, 10c extra.

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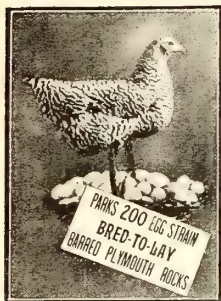
Park's Bred-to-and Do-Lay Barred Plym. Rocks

They showed what over 26 years of Careful Selection, Trapnesting and Pedigreeing for EGGS will do by winning in the last four Missouri Laying Contests. Made the best winter month record (when laying pays) by laying 134 eggs in January. They stand second in the present contest, only five eggs back of leaders. They out-layed all other breeds entered in last Missouri Contest, making better record than the Famous English strains did in either Missouri or Storr's Contests. They lead all the Rocks in last North American Contest.

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With a 1200-egg capacity or larger Candee Incubator, you will be able to hatch all your chicks early enough so that they will be matured and will lay when cold weather comes, and when eggs are scarce and high in price.

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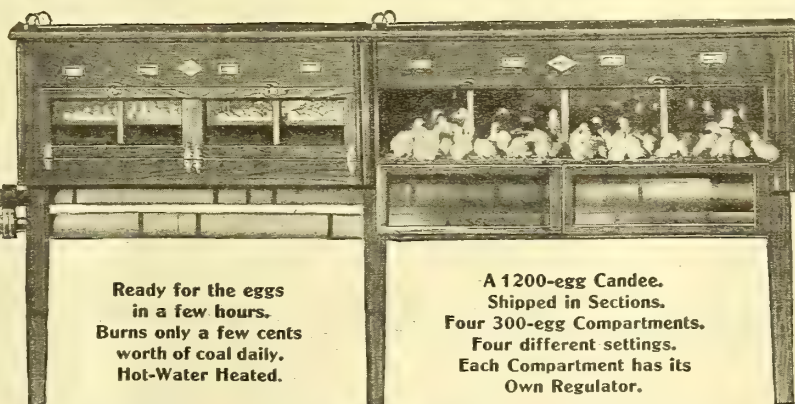
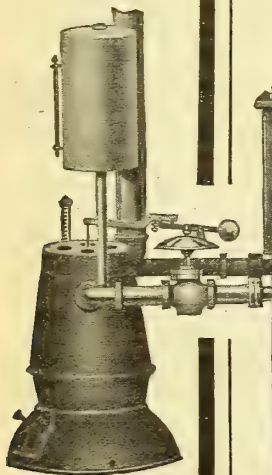
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A 1200-egg Candee.
Shipped in Sections.
Four 300-egg Compartments.
Four different settings.
Each Compartment has its
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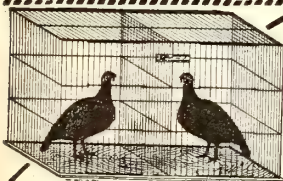
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and Sultan, originated by Luther Burbank.

OPATA: a cross of the *Prunus Besseyi*, and the *Gold* plum.

HANSKA: a cross of the *Prunus Besseyi* and *Prunus Simoni*. Has flavor of the apricot.

WANETA: a cross between the apple plum, a large Japanese variety, and the Terry, which is one of the largest of the American plums.

I am sure that it will be well for planters in the extreme north to give these plums a trial.

* * *

While I think every home garden should contain a few of the fall-bearing strawberry plants, I want to warn my readers that the growers who go into this class of plants in a commercial way are bound to come to grief.

* * *

I was out in the woods the other day and found that the wild gooseberries were plentiful. I examined hundreds of bushes and found each to be in perfect health, with no sign that they had been visited by the currant worm, so destructive to the cultivated gooseberry and currant. Then I spoke what I thought to be words of wisdom to my companions, calling their attention to the fact that the wild things of the woods were exempt from insects and diseases which visited with such disastrous effect the bushes in our gardens. Soon we came into a field of wild raspberries. These bushes were nearly dead, the Anthrose having fallen upon them. I had to retract my "words of wisdom."

* * *

What looked like a bumper crop of strawberries turned out to be a very light one. The plants were very heavily set with bloom and looked fine. But the weather was cold and it rained nearly every day during the blooming season. As a result the pollen was not allowed to develop and the blossoms nearly all blighted. No spraying could have saved them. Our Haviland, Sample and Brandywine as usual, gave us the best crop. Senator Dunlap was about a total failure. I am beginning to believe that Senator Dunlap is "running out." When we quit picking the fruit I mowed off the vines, spaded up the ground between the rows and then gave the bed a good dressing of hen manure. Then hen manure will be worked into the ground after a heavy rain, or if no heavy rain falls within a reasonable time, we will work the manure into the soil when we cultivate the plot. We want a good growth of vines this season.

* * *

I have never known a season when the fruit trees were so free from insects and fungus diseases. Am of the opinion that this is owing to the cool weather. The Aphid has been less than in any previous season.

* * *

A writer in a popular fruit journal says that "one man can easily manage four acres of strawberries. I would like to meet the man who can do this. There is a permanent job awaiting any man who can do it, at our place, at a good salary."

* * *

Now is a good time in which to make plans for the fall planting of fruit trees, bushes, shrubbery and the like. Go over the ground carefully, and lay out the grounds on paper. When the

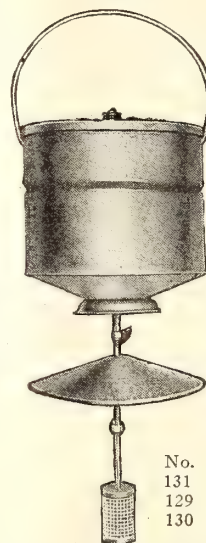
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stop loss from contagious disease;
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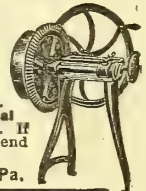
This No. 4 Planet Jr combined Hoes and Drill Seeder. Wheel Hoe, Cultivator, and Plow includes practically every tool needed to plant and cultivate a large or small garden. Can be used by man, woman, or boy. Costs little. Lasts a lifetime. New 72-page Catalog (124 illustrations) free! Write postal for it.

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\$5 NO MONEY IN ADVANCE

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Stratton Mfg. Co., Box 17, Erie, Pa.

1 Gallon Oil Put a gallon of oil in X-Ray Tank, light the lamp and the **X-RAY INCUBATOR** does the rest. Duplex central heating plant means no cold corners—even mild heat all the time. Send for free book 10 Express prepaid to practically all points.

One Filling THE X-RAY INCUBATOR CO. Des Moines, Ia. Box 10 Express Prepaid

Regal Barred Plymouth Rocks, White Leghorns, White Wyandottes, Anconas, S. C. R. I. Reds, Campines, S. C. Wyandottes. Stock and Eggs in Season.

CORNELL COMPANY, Great Barrington, Mass.

climate will permit of it, fall planting is very desirable. Out here we cannot plant fruit trees in the fall, but gooseberry and currant bushes, grape vines and many shrubs can be safely planted in the fall.

* * *

In answer to George Merrill, Kentucky: I am sure you will find the Henry Clay apple suited to your planting. It is one of the earliest of all early apples, is beautiful and of good quality and a very profitable commercial variety. It is not hardy here, although I have Duchess tree top-worked to it that has borne four crops of delicious fruit.

* * *

A number of apple trees which by all rules of behavior should have rested this year are loaded with fruit. I think it is owing chiefly to the effects of the heavy rains of last year, just at the time the 1916 fruit buds were forming. One tree stands where it gets considerable water from the house, and this tree has borne consecutive crops for a number of years. As a rule we lack moisture here in July and August. How I wish I had an irrigation plant!

* * *

When we stopped cutting asparagus for the season, the bed was covered to the depth of about one foot with horse and cow manure. This we have found to be the best annual treatment to give the bed.

* * *

J. J. Mathews, of South Dakota, suffered a heavy loss in May by the floods along the Missouri River, which destroyed five acres of bearing strawberry plants and about three acres of raspberry plants.

* * *

Those troublesome bluejays again! Not long ago I noticed that a long row of telephone poles were coming up very unevenly. While looking them over a blue jay put in his appearance. He deliberately pulled up a pole that was showing about an inch of green, broke the growth from the pole and swallowed the pole. He went along the row and would have had his fill of poles had I not said something to him which I cannot here record, and thus drove him away. I do dislike to go gunning for birds, even these robbers, but if these bluejays keep on killing my young corn, I think I will find a way to get rid of some of them.

* * *

I have spoken before of the advisability of having fruit trees intended for spring planting sent from the nursery in the fall and heeled in on the home place. The trees which I received last October and heeled in, started growth at least two weeks earlier than those received from the nursery this spring. The reason is that the trees kept in the nursery cold storage all winter were somewhat dried out while those which I had buried in the ground were moist and ready to start growth the moment that they were planted. By all means order your fruit trees in the fall and heel them in on the home ground. If you live where the climate will permit of it, plant the hardy fruit trees in the fall. Even in this severe climate I find fall planting best for grapevines, currant and gooseberry bushes.

STILES' COLORED Leg Bands

PROVIDE IDENTIFICATION

Identify birds as far as you can distinguish colors. Tell which are yearlings and which are two year olds without handling. Made in Red, White, Blue, Amber, Green, Black, Pink, Light Blue and Ruby. Mention variety when ordering.



ECONOMY BRAND—Single coil for adult fowls. 12 for 15c; 25-30c; 50-50c; 100-75c; 250 \$1.80; 500-\$3.50, postpaid.



ROYAL BRAND—Double coil for adult fowls. 12 for 20c; 25-35c; 50-60c; 100-\$1.00; 250-\$2.25; 500-\$4.00; Postpaid.



Bands For Growing Birds—(two sizes, state age) 12-15c; 25-25c; 50-40c; 100-75c; 250-\$1.75; 500-\$3.25; postpaid. **Baby Chick Bands** 25-20c; 50-35c; 100-50c; 250-\$1.25; 500-\$2.25; postpaid. **Favorite Poultry Punch**, for toe marking chicks, Price, 25 cents.



THE VICTOR BAND Has large printed numbers, bright and clear colors—Red, white, blue, green and yellow. Adjustable. Made of celluloid and aluminum. 12 for 35c; 25-60c; 50-\$1.10; 100-\$2.00; 200-\$3.75, postpaid.

ALUMINUM BANDS



THE CAPITAL BAND Has raised figures. Adjustable, strong, smooth edges. 12-15c; 25-25c; 50-40c; 100-65c; 250-\$1.50; 500-\$2.75; 1000-\$5.25.



THE FAVORITE BAND Made of heavy aluminum with smooth edges. Large raised numbers, locks with double clinches. Prices same as The Capital.

CHAS. L. STILES

232 N. Third St. COLUMBUS, OHIO

JUST A DAB under the wings and around the vent and

Conkey's Lice Fix

rids the hen of the body lice that suck away your profits. If you prefer dusting, use **Conkey's Lice Powder**, 25c, 50c.

Conkey's Lice Liquid sprayed around the poultry house destroys mites, worst pests of all. 35c, 60c.

Conkey's Poultry Tonic mixed in the feed makes heavy layers and good bodied market birds. 25c, 50c.

Spray **Conkey's Nox-i-cide** about the poultry houses and runs. Destroys germs and prevents disease. A hundred uses about the home as a disinfectant and cleanser too. 35c, 60c.

Send 4c for **Conkey's Poultry Book**.

THE G. E. CONKEY CO. CLEVELAND, OHIO
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PEARL GRIT

Not an Expense, a Money Maker

Repays its cost over and over in bigger, healthier, better laying fowls. Grit that is more than grit. Aids digestion, gives appetite, supplies egg shell, bone and feather material. Send for booklet.

THE OHIO MARBLE COMPANY
10 S. Cleveland St., Piqua, Ohio

155 EGG \$7.85 LOWEST PRICE YET FOR BIG 155 EGG INCUBATOR

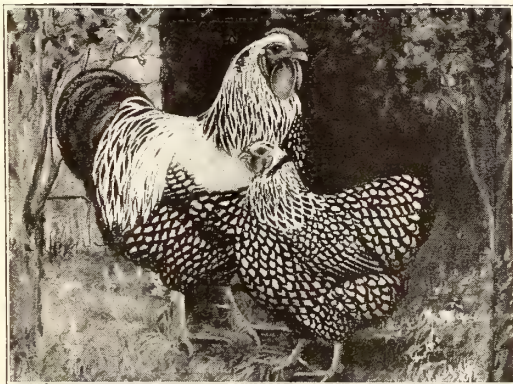
Prize winning hatches—Sure results—Healthy chicks—Best Construction—California Redwood—Copper Hot Water Heater—Safety Lamp—Tester—Thermometer—Self-Regulating, etc. Frit. paid E. of Rockies. With Brooder \$9.85. Hundreds of Dead Air Cells. Big new offer this year—write.

PROGRESSIVE INCUBATOR CO., BOX 135 RACINE, WIS.

FREE

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is now ready



Above is one of the hundreds of handsome new illustrations with which this book is filled—pictures for every kind of poultry printing—handsome catalog covers and illustrations, pen and ink drawings, initial letters, ornamental designs, letterhead designs, etc., at prices which are but a few cents above cost. Illustrations are the life of your advertising literature. Get good cuts for the same price as mediocre ones, have them well printed, and notice how they help business. Send for one of these catalogs today, talk it over with your printer, and select the illustrations best suited to your work.

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AMERICAN POULTRY JOURNAL

Dept. C

542 S. DEARBORN ST., CHICAGO, ILL.

What is This Worth to You?

To raise bouncing 11-pound roosters, 9-pound hens and get MORE EGGS THAN EVER

My hens are shelling out the eggs FAR beyond my expectations. I had "NO FAITH" but I must honestly state that "OCULUM" is the "EGG FARMER'S" ONLY salvation.

J. F. McGEE, New Richmond, Wis.

Poultrymen the world over, buy it by the gallon.

Elmont, Va., June 3, 1916.

Express two gallons "OCULUM" for which we enclose check.

R. H. SWADNER.

Mr. S. has used nine gallons in six months. Booklet free. Try a bottle (240 feeds) only 10c.

H. I. COMPANY, Inc. - Box B - SALEM, VIRGINIA

Disease Flees from "Oculum"



1st Pen Male
Syracuse, 1915

The Famous Vigorous Strain HOMESTEAD SILVER CAMPINES

We have for sale, at very reasonable prices, many beautiful and vigorous birds, both males and females. We have a large stock of the finest youngsters coming along this year and naturally need the room and houses in order to care for these birds, therefore we are offering to the lover of Campines an excellent opportunity to purchase many of the breeders that have produced these wonderful youngsters and we trust you will accept the proposition and lose no happy day. Our new and beautiful 1916 catalog may interest you. Our young stock will be ready for shipment about September 1st, but do not overlook the parents, for among them are many remarkable prize winners. Homestead Campine Farm, Box A, Wayland, Mass.

GOLDEN PENCILED HAMBURG

The Fancier's Fowl. Won the Principal, Regular and Special Prizes at Madison Square, Boston, Palace. A few birds for sale. No eggs.

JOHN A. GAMEWELL :: Box 2 :: LITTLE SILVER, N. J.

S. C. RHODE ISLAND REDS

A golden opportunity. A limited number of birds, good color and shape, for next year breeders, in lots of 10 or over at \$1.25 each. Smaller lots, \$1.50 each.

ROCK LEDGE FARM - SOUTHBORO, MASS.

David P. Daniels died at his home in Nebraska a few days ago, at the age of 94 years. He was a pioneer, coming to Nebraska from Pennsylvania in 1852. For years he appeared each season before the Nebraska state legislature and urged the law-makers to authorize the planting of vast tracts of sand hills to trees. He was unsuccessful in his efforts and the state lost a grand chance to do good. He was a worker with the late J. Sterling Morton in advancing the interests of horticulture in his state, and his apple orchard was among the first, or the first to be planted there.

* * *

"I am a subscriber of the American Poultry Journal and seeing that you have been answering letters in regard to Florida would like to have you answer a few personal questions for me. We have several men here who have invested in Polk County, Florida, on the highlands, and I have been thinking of investing there myself in a fruit farm. I would like to know if they have frosts there and if the quality of the fruit is good, it being sandy soil underlined with clay from eight to ten feet. This land is sold under the 'Harvey Land Co., of Chicago and is known as the 'Star Lake Section' about two miles from what they call Iron Mountain, supposed to be the highest point in Florida.

"Iowa.

Dr. G. C. Miller."

The high ground in Polk County, Florida, is good ground, as good ground is counted in Florida. The section is not frost proof, regardless of the claims made by the selling company. The frost line in Florida is always just north of the land the booming company has for sale. I have read claims of these companies that were absolutely false. I think the section which my correspondent refers to is all right for fruit growing, but the growers must count on an occasional damage from frost. Were I going to buy land in Florida for the purpose of raising fruit, I would not locate north of the Miami River. South of this river, fruit has never been injured. Once in a while tender vegetables will be injured by frost, but so far the citrus fruits have never been touched. The man who buys Florida fruit and vegetable land on the statements made by land companies is more than likely to regret his action. By all means make a thoro investigation before purchasing—and have nothing to do with the northern land companies offering Florida land for sale.

* * *

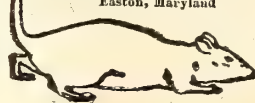
The dandelions have taken possession of the lawns and open fields of this section of the state. I gave up the battle this spring. No use trying to fight them. Our lawn has been one mass of yellow flowers. The bees take advantage of the situation anyway and gather honey at a great rate.

I COULD DIE EATING RAT SNAP

says the rat—and he does! He prefers it to all other food and it is the last he eats. RAT SNAP chemically mummifies the carcass. Prevents all odors. Does not dry up, soil, decay or blow away. Not mixed with other food. Ready for instant use. Surest, quickest, safest, cleanest, most convenient and sanitary method of exterminating rats and mice.

Get rid of rats! It is economy. Buy ten big cakes prepaid, for a dollar. Send today. Protect Your Chickens and Feed Supply.

MERCHANTS DRUG COMPANY
Easton, Maryland



The Marvelous Newtown Giant Stands Supreme Among Incubators

A strong statement—but we have *ample reason* to believe it to be *absolutely true*. Our faith is justified by the *consistently satisfactory performance of the machine itself under all conditions and in all parts of the world*.

The Newtown Giant is the only incubator for you if you require the machine which will positively "hatch the most chicks, the best chicks with least labor and at lowest cost." Below are a few reasons for acknowledged Newtown supremacy:—

Supreme in Efficiency

Actual performance in all climates, under all the varying conditions the world over, has demonstrated the Newtown to be the most efficient hatching machine.

Supreme in Construction

This applies to every part of the machine. The most exacting care and the very highest skill are used in manufacturing the Newtown.

Supreme in Durability

The Newtown is substantially built and will last a lifetime. Every part is carefully inspected and strongly put together. Each machine is completely assembled before shipment. This insures accurate fitting and perfect operation.

Supreme in Improvements

This has been the greatest factor in Newtown success. Only those features which stand the most severe tests are adopted. They include the Automatic Coal Feeder, Automatic Regulator at the Heater, Automatic Regulator of Heat, Ventilation and Moisture at each compartment, Automatic Eggs Turner, Automatic Temperature Indicator and Automatic Electric Alarm.

Supreme in Service

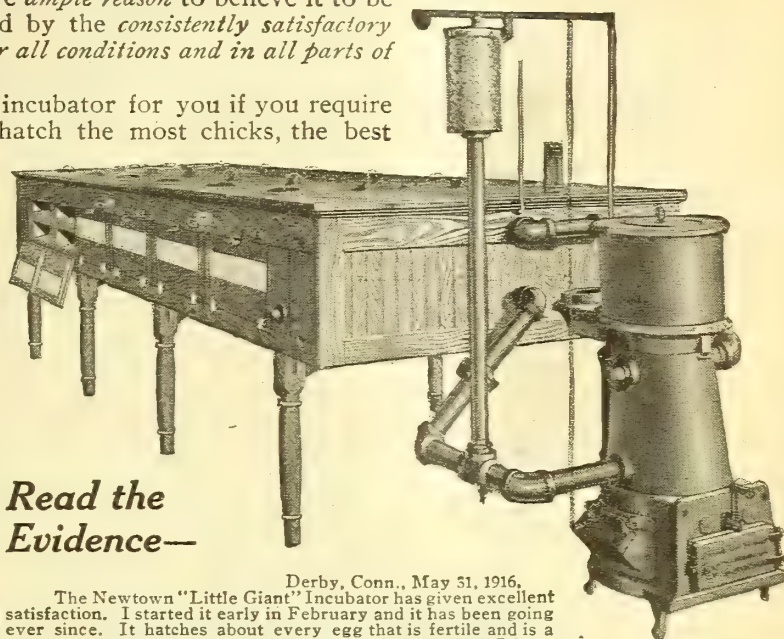
Nothing is left undone to insure that every Newtown user shall get the very best and greatest possible service from his machine. Everything is designed for convenience and service.

Supreme in Satisfaction

Every Newtown customer is a satisfied user. Ask the poultryman who owns one. A great many people who purchased Newtowns last year have already placed orders for increased capacity to be installed at once. This is the final test.

Supreme in Sales

Because they are supreme in Efficiency, Construction, Durability, Improvements, Service and Satisfaction, the sales of Newtown Giant Incubators are more than doubling each season.



Read the Evidence—

Derby, Conn., May 31, 1916.
The Newtown "Little Giant" Incubator has given excellent satisfaction. I started it early in February and it has been going ever since. It hatches about every egg that is fertile and is a very great improvement over the other incubators which I have had of smaller size and different makes, although they were considered to be among the best of the smaller machines. MAPLEDALE FARM, (Judge) W. S. Downes, Owner.

Waverly, Iowa, May 15, 1916.
We have thoroughly tried out our 3000-egg Newtown Giant Incubator and find it highly satisfactory in every way. It keeps the temperature perfect—same does not vary one-fourth of a degree in the various compartments. We were surprised at the small amount of fuel this machine takes, and have taken off two splendid hatches. We are perfectly pleased in every particular, and shall be glad, at all times, to recommend Newtown Giant equipment. RHODE ISLAND RED JOURNAL CO., A. G. Studier, Editor.

Somerset, Mass., June 12, 1916.
Am very much pleased with the way my machine has worked. I do not see how any machine could do better work. One of the things that impressed me most was the Egg Turner and decided me in your favor. After using the turner for one season I can say nothing but praise for it and feel that it has saved its price over and over in the time and labor. I have never had healthier or better chickens than I have had this year. Wishing you the success with your machine that you deserve. ERNEST L. PIERCE.

Reno, Nevada, April 6, 1916.
I am very well pleased with the 6000-egg size Incubator purchased of you this Spring. Your egg turning device is certainly a big improvement over last year's model. We are turning out the best chicks we ever hatched and more of them. Our 1200-size purchased last year, remodeled with this year's trays, hatches 20 per cent. better; 1056 eggs set; hatched 815 chicks, 1st hatch. 1056 eggs set; hatched 822 chicks, 2nd hatch. A. F. SCANAVINO, Manager.

Pittsfield, N. H., May 24, 1916.
We have just closed our hatching season with our Newtown Giant Incubator. Got an average of 66 per cent. hatches of all eggs put in machines hatching over 13,000 chicks. Am much pleased with the turner. It is a great labor-saver. The chicks are well hatched, coming out large and strong. The Newtown products are O.K., and your dealings are on the square. A. N. PEASLEE & SON.

Gossville, N. H., May 27, 1916.
Am very much pleased with my 1800-egg Newtown Giant Incubator. My last hatch averaged 75 per cent. The ease and accuracy with which it runs far exceeds my expectations. K. F. RAND.

Box 92, Wyckoff, N. J., May 12, 1916.
The 1200-egg Giant Incubator purchased at Madison Square Garden is certainly a labor-saver for the busy poultryman. About fifteen minutes each day is all the time it requires and it brings out the finest chicks I ever saw. The Electric Alarm is a big feature but my machine has maintained such an even temperature that the Alarm has never been sounded. TEMPEL'S POULTRY FARM.

Huntington, L. I., N. Y., May 15, 1916.
The 1800-egg Newtown Giant Incubator has given perfect satisfaction. Our hatches have averaged about 80 per cent. all season and all were strong chicks. The machine is very easy to operate on account of the Automatic controls and the Automatic Eggs Turner is perfect. It saves time and turns the eggs thoroughly. The machine is all you claim it to be. BREEZY LAWN FARM, Henry Hung, Owner.

Our new booklet—"Proof of Efficiency"—and complete catalog are yours for the asking. Every earnest poultryman should have them. Better write for them NOW!

NEWTOWN GIANT INCUBATOR CORPORATION
21 Warsaw Street, Harrisonburg, Virginia

Questions and Answers

Conducted by
Prince T. Woods, M. D.



Breeding for Egg Production

Q. I was much interested in Mr. Sharp's answer to J. B. Y., concerning increasing the flock, pages 697-9, April American Poultry Journal. I like his methods of increase but cannot fully subscribe to his idea of holding his breeding pullets down to 40 eggs their first year. We amateurs have been taught thru the poultry journals to favor good layers as breeders and it would seem that practically all large plant poultrymen, who are breeding layers, follow that practice. Also they advertise high laying birds for breeding purposes. If Mr. Sharp is right, where are we at?

I have been in this business about six years and I find I have a great deal more to learn, but I think I have learned something. I have not learned how to

keep my best pullets down to 40 eggs per year or much less than twice that of their first year. I am breeding Barren Leghorns and keep records of all eggs laid, of feed and supplies, etc. Trap-nest part of the time and never force a pullet that I intend to breed from. Do not feed any beef scrap but use some buttermilk and in winter some ground bone. My dry mash is two parts bran, one middlings, 1 corn meal, two ground oats. Give a commercial scratch grain morning and evening and feed sprouted oats at noon.

I have talked this matter over with quite a few readers and all feel that we would like to have you comment more fully on Mr. Sharp's answer. Would like to be informed about breeding for egg production and how fowls are held down to 40 eggs a year when kept for

breeding purposes. How about using high record pullets for breeding? They are often advertised as ideal breeders and their eggs for hatching sold at a high price.

Also we are constantly asked to buy "breeding males to improve our flocks." How about it? If I have learned anything in my six years it is to be very shy of "new blood" for my flock. When I do use a new male, I pick out a few hens to mate with him and watch results very carefully before I breed any of that new blood to my flock. From such matings I never get more than 50% fairly good pullets and far less good cockerels. The great bulk of the chickens from the "new blood" cross have to go to the fattening pen. Would like your frank opinion in this matter. The American Poultry Journal is always fearless and willing to print the truth even if it should hurt somebody.

Columbus, Ohio. J. B.

A. It is really up to Mr. Sharp to explain more fully his views and methods of holding breeding females down to an approximate production of 40 eggs a year and to go into details about how he "rests" breeding stock. Doubtless he will do this soon. We really do not believe that he meant to be arbitrary about that "40 eggs" limit, but think he wished to emphasize the fact that it is unwise to force breeders for heavy laying, or to keep them laying thru the season without opportunity for rest.

Breeding for high egg production, or just how far fecundity may be improved by breeding methods, is a question that is still open for discussion and so far as we can see, proof is still lacking to show that we can really increase fecundity by "breeding for eggs."

The daughters of heavy layers, even when bred to sons of heavy layers, produce a considerable proportion of inferior layers and comparatively few birds of either sex which appear to have the ability to transmit unusual laying powers. The sons of heavy layers show only a small percentage, in most cases, that seem to have the power to transmit to their progeny fecundity that approaches or equals that of the male's dam. Selected birds from a flock of very poor layers have produced some specimens showing unusual fecundity and the average egg yield of all pullets was far ahead of the parent stock. The daughters of a 200-egg hen are quite as liable to be inferior to their dam in egg yield as they are to equal her record. In fact it is difficult to determine whether or not there is a definite or appreciable ability to transmit any inheritance of high egg producing qualities.

Certain selected individuals, that are prepotent, appear to transmit to a proportion of their offspring, a tendency to high productivity, but where this characteristic persists, generation after

What's
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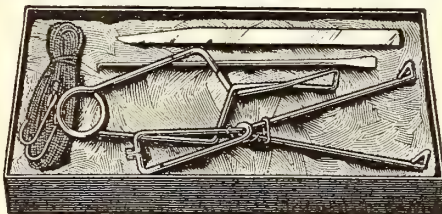
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64 Page 6 x 9 inch BOOK that explains everything you will ever want to know about CAPONS. 50 pictures from life that show each step in the operation. List of Capon buyers' addresses. Tells how to prevent "Slips," where to get the best and cheapest capon tools. Copyrighted, new and revised 1915, 4th edition. Regular 50 cent copy, prepaid to your address for a Dime in coin or stamps.

Which Shall It Be,
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\$2.00 Capon?

Let me explain how to do it. I have this information all illustrated and printed in a nice little circular that I will be glad to send you free of cost. Send me your name and address plainly written and I will send it to you by return mail.



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ALLENTOWN

Great Allentown Fair Poultry Show

Allentown, Pa., September 19-20-21-22, 1916

"Noted for the way it does things and the things it does"

Sixty-fifth year; twelfth under present management. One of the Biggest and Best Poultry Shows and Fairs in America. Big and little exhibitors treated alike and equally welcome. Large and liberal prize moneys and pays its premiums. Judges of national reputation. Management and employees do not exhibit. Entries close Sept. 8th and requests for premium lists should be filed at once.

W. THEO. WITTMAN, Superintendent-Manager Box E, ALLENTOWN, PA.

S. C. BUFF ORPINGTONS

pick of the flock of 1,000. Our wins in 1915 at Allentown, New York State Fair, Philadelphia, Grand Central Palace, speak for quality. We guarantee satisfaction.

Old Forge Poultry Farm

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Spring Grove, Pa.

Birds at REDUCED PRICES. Place your order now for young stock and get the

DR. HEASLEY'S "Egg-Bred Winners"

in S. C. Buff Leghorns have made good with Championship at Chicago, Special at San Francisco and highest records in Official Egg Contests. Egg-bred cockerels and six-weeks pullets.

DR. L. E. HEASLEY : : Box A : : HOLLAND, MICH.

generation, it is likely to be the exceptional case rather than the rule. It is, however, apparently possible and practical to considerably increase the productivity of flocks by careful selection of sound, healthy, vigorous birds which show physical characters indicating good layers. Some time ago a veteran in egg farming said that "any healthy, normal, well-fed hen could be depended upon to show a good egg record." Given normal, healthy fowls, he considered that feeding, care and management are the essential requisites of heavy laying. Certain it is that some poultrymen can obtain unusually heavy yields in eggs from very ordinary stock, while the same stock in other hands will not perform well. It is also true that all persons obtaining "bred-to-lay" stock from record layers, do not obtain equally satisfactory egg production from their flocks.

Apparently fecundity, as a hereditary characteristic, is not in the same or a similar class with other characters which we know to be transmissible from parent to offspring. For the daughter of a high record hen, or of a bred-to-lay strain male, to show a desirable egg record the bird must be well fed and cared for. If she is not properly fed she will prove a disappointment as a layer. However, even if she is ill-fed, starved, abused, or even diseased, she will show in recognizable degree such hereditary characters as breed color, comb, shape, number of toes, feathered or bare shanks, etc.

It is not certain that fecundity can be increased by breeding and it is probable that the present day state of productiveness of domestic fowls has been established only thru many centuries of

selection and breeding and that very little can be accomplished or hoped for in a few short years of work at "establishing a strain." But this does not mean that it is not possible to secure improvement by careful selection, severe culling, and common sense breeding from selected stock.

Anatomically every normal hen would appear to be fitted to become a good layer. Certain it is that no hen lives long enough, or remains in condition long enough, to develop all, or more than a small percentage of, the undeveloped eggs on her ovary. In counts made at Maine Experiment Station from 914 to 3,605 oocytes (undeveloped eggs) were found on the ovaries of some 15 hens examined, and only those visible to the unaided eye were counted. Three hens showed better than 1100 oocytes each; five showed better than 1,500 undeveloped eggs each; five better than 2,000 each; and one yielded a count of 3,605 undeveloped eggs. In the investigations it was shown that the number of oocytes visible on the ovary bore no definite or constant relation to the actually realized egg production of the specimen. Apparently actual egg production depends upon many things besides hereditary characters and anatomical differences. It is easy to understand that influences which affect the individual specimen may play a very large part in producing conditions favorable to maturing the undeveloped eggs of the ovary and the actual laying of same. Potentially, from an anatomical standpoint, almost every hen is a thousand-egger or better. It remains for us to develop and obtain the eggs. Of course, many oocytes

never develop and mature. Hens which have made a record of 1,000 eggs in their lifetime are still rare birds.

To return to the question of "holding down egg production" in birds intended for breeders; in our own experience we have found that usually a very heavy layer would produce a relatively small number of strongly fertilized hatchable eggs. Heavy layers are also apt to lay themselves out of breeding condition. We do not like to make a practice of breeding from pullets or of using eggs for hatching from stock that is forced for egg production. Generally, if a pullet, on beginning to lay, starts early, lays regularly and makes a good record for laying on consecutive days during her first three months, she proves a good layer. If after the first few eggs, she produces good sized, normal shaped eggs, we look on her with favor. We like to select such birds, choosing those of best type, vigor and health, and give them special care. They are not as heavily fed as the layers of market eggs; they have more house room and larger range and if they show a tendency to become broody, they are encouraged to rear a flock of fall or winter chicks. They are "rested" or rather kept in condition to be used as breeders by being encouraged to eat no more than is necessary to keep them in good order and have abundant opportunity to exercise and keep fit. When so handled, they lay fewer eggs, but the fertility is better, the hatchability is good and the chicks are desirable.

To get the best results in egg yield, a hen or pullet must be a bit too fat to give best results as a breeder. The heavy layers are encouraged to eat

Kellerstrass White Orpington Farm Sold to the 1733 Ranch

Including all their famous winners now living; all old and young stock; all breeding, show and business records, together with all contracts with nearby farmers raising the famous Kellerstrass strain of Crystal White Orpingtons for the Kellerstrass Farm.

The 1733 Ranch of Kearney, Neb., now owns the greatest flock, the greatest number of high grade exhibition, breeding and laying White Orpingtons of any farm in the world. Every White Orpington of the many thousands now owned by us is a direct descendant of "Peggy" and her famous sons and daughters, many of which were among the first prize winners in the best shows in every country in the world.

The fact that our famous Crystal White Orpingtons are the best is proven

by the great demand for birds of that strain. Without one line of advertising in over two years, the Kellerstrass Poultry Farm has continued to do one of the largest businesses in the world. Just two hours after purchasing this farm's stock and business, we received our first order—a nice one, two, from Holland. Orders are continuing to reach us every day. We are prepared to handle the business and to give full satisfaction to all purchasers of stock or eggs. We have also bought all of the

Dr. Watson Rose and S. C. R. I. Reds

including all his first and second prize winners at the Panama-Pacific World's Fair at Chicago, St. Louis, Kansas City, etc. We now have over 5,000 youngsters in these varieties, also in

Single Comb Buff Orpingtons

as we have bought out the entire flock of this variety owned by Mr. L. E. Porter, including the first prize pullet at the World's Fair, and many other famous winners at Chicago, St. Louis, Des Moines, etc. We are also well supplied with choice quality in White Wyandottes, White Rocks, Barred Rocks, White Leghorns, Turkeys and Water Fowl. Send for catalog and state what breed you are interested in.

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Cockerels and Pullets at reasonable prices. Write. **J. W. FRIESNER & SON Box C BREMEN, OHIO**

Howison's Buff Wyandottes

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heavily of rich foodstuffs and the feeder stimulates appetite to the fullest extent without actually "stalling" the birds and bringing on indigestion from over-feeding. We have performed post-mortems on a good many unusually heavy layers and in every instance found them to be decidedly overfat. While the overfat hen may be, and usually is, an uncommonly good layer, we do not want to have breeding stock in like condition.

So far as buying breeding males to "improve flocks by introduction of new blood," that is a matter that depends upon the conditions and the birds or flocks under consideration. A good pure-bred male, properly used, can be made to grade up or improve your stock. That has been proved time and again. But, it is also true that if you have a good strain that has been well bred in line, it is not wise to introduce "new blood" and if it is found necessary to use "new blood" the new specimen, male or female, should be bred in a select mating and careful record kept of the results and of the inbreeding of the offspring. It is disastrous to make haphazard matings with "new blood." When "new blood" is carefully crossed into a strain, particularly where two strongly prepotent lines are used, it generally upsets characters to a considerable degree in the progeny and it takes several generations of careful work to get the line throwing a good percentage of specimens with the desired characters. Breeding is always a matter that requires knowledge of the stock and what is back of it and it is a constant study and exercise of skill in mating to make certain groups of characters nick and produce desired results.

Tar to Drive Out Rats

Editor Q. A. Department: I have been very successful in driving rats away from my place with coal tar. I pour it in their holes and runways and they leave. I live in the suburbs of a city and the rats do not have to go far to find another home. I cannot tell how it affects them, whether it is the odor or possibly because they get the tar on their feet and fur. It seems to be very offensive to them as they move right out, at least they do in Missouri and I am quite sure that Massachusetts rats would do the same. If you want to make a complete job of it, pour the tar into all rat holes and if they make new holes fill them up as fast as they are made. Fix a place for them to go, pile up some old lumber, wood or brush, anything that will make a good rat harbor, and when the rats have taken full possession of this new home run a temporary fence of inch mesh around it and there you have them where the dog can finish the job. If you have not yet found a remedy for rats, try coal tar. It will not cost much in money, time or labor. If the tar is cold and thick, warm it so it will run but do not boil it.

Richmond, Mo.

J. W. McC.

(Note—This was sent us in a personal letter marked "not for publication," but as it is a good thing, we feel certain that our Missouri friend will be glad to have us pass it along to our readers. Next time the rats begin to get troublesome we intend to try the tar treatment. In our case, however, the most troublesome rats come in from the woodland and from the shore of

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Get our prices on winners for your fall show.

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Columbian Wyandottes

Yearling hens and young stock for sale.

Arthur Merrell Solon Mills, Illinois

Hubbard's Peerless Buff Orpingtons

will win for you at the fall and winter shows.

Send for prices on guaranteed winners. **Charles Hubbard, Mgr. Foxhurst Farm Box 52, Lime Rock, Conn.**

White Cornish

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(See classified ad on another page)

SPECIAL SUMMER SALE

of Tom Barron's English S. C. White Leghorns. Cocks, \$3 to \$5. Hens \$2 to \$4. 3-months old cks. one-half the above price. Satisfaction guaranteed. **M. H. WAUGH, 511 Loucks Ave., PEORIA, ILL.**

BUTTERCUPS

Stock for sale after October 1st.

MRS. HATTIE D. REED
Chestnut Terrace Marcellus, N. Y.

the pond. Neighbors are not close enough to invite the rats to move there and to drive the pests out of the woods would be some undertaking. We believe that the tar will prove an excellent preventive to keep rats out of the poultry buildings and runs and we intend to give it a trial. Rats are among the worst pests we have and they are known to be disease carriers. We wish it was more easy to get a community organized to fight pests like rats and flies, but such movements develop slowly.—Editor.)

Low Fertility

Q. Please advise me concerning my results with breeding stock the past season. My hatching eggs were only about 75% fertile and my hatches were poorer than usual being from 48% to 64% of the fertile eggs. I kept eight yearling hens, a pullet and a cockerel (hatched April, 1915), White Wyandottes. They were wintered in two 3x6 foot houses placed end to end and equipped with an automatic hopper. All of the birds except the pullet and cock-

erel were purchased last fall. On looking over my records I find that these birds had eaten an average of 10 pounds of feed each per month and laid 12 eggs per bird per month from January 1 to April 30. My laying pen during the same period consumed 7½ pounds of feed and laid 14 eggs each per month. The breeders are now all very heavy. Do you think the low fertility was due to the cockerel or the hens? Would the same cause result in both low fertility and poor hatches and cause eggs to hatch late? Would it be safe to use same hens another season? Would it be advisable to continue the automatic hopper feeding? Please advise about incubator operation.

Kewanee, Ills.

C. C. C.

A. Without an opportunity to observe your flock and conditions under which they are kept, it is difficult to say what is wrong. We are inclined to believe that the flock which disappointed you were kept too closely confined and that they did not get sufficient exercise. The difference in consumption of food and yield in two flocks mentioned, may have

been due to methods of housing and care. Other conditions being equal, the flock fed with automatic feed hoppers should have produced as well or better than the other flock, provided they were not too closely confined and also had sufficient litter under hopper to induce exercise. While the fertility and hatching is not very low for your variety, season considered, it is suggestive of an immature male bird and lack of exercise in rather cramped quarters. If you molt those birds on a liberal sized green range, with plenty of shade and rather scant rations, consisting chiefly of oats and greens, they should be all right to breed next season. The oats can be fed thru summer and fall from the automatic hopper.

We note that you suggest for your incubator operation next season "that ventilator be closed during hatching, use of hygrometer, start temperature at 103 degrees until latter part of hatch, use cloth on egg tray, keep eggs in cool place, watch air cell for indications of moisture conditions." These are good suggestions, except that we would not



S. C. White Leghorns and Silver Campines

THE EARLIEST LAYERS



State of Indiana ss.
St. Joseph County

South Bend, Ind., May, 1, 1916

The undersigned hereby certify to the following facts:

On or about November 7, 1915, Single Comb White Leghorn and Silver Campine baby chicks were hatched on our plant. This stock received nothing in the way of feed and care other than the food and attention ordinarily given our other baby chicks.

The first pullet egg was laid April 1, 1916. On April 4th, there were six pullet eggs. That is, out of approximately ten or twelve pullets hatched, half were laying before they were five months old, although they were incubated in November, and raised during the winter months of December, January and February.



Frank E. Hering
Proprietor

J. H. Wetmore
Manager.

Subscribed and sworn to before me, this 2d day of May, 1916

Commission Expires January, 14, 1920.

Eva B. Dostzenpiller
Notary Public.



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DISCOUNT DURING AUGUST on matured stock from my strain of unsurpassed Egg-Laying and Exhibition S. C. White Leghorns and Silver Campines.

50%

Now is the time to buy. Write me your wants today.

P. S.—I have 5000 S. C. White Leghorns and Silver Campines of 1916 hatch.

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Used in the ration at all North American Laying Competitions where world's highest official laying records have been made.

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Furnishes the required muscle and bone-building materials in available form. The choice of America's most successful poultry growers.

Red Star Brand Fish Scrap is made from fresh cod and haddock and carries no oil. Be sure to get this brand. Beware of oily fish scrap which is good fertilizer but not fit for feeding. Red Star Brand is right in every respect and gives universal satisfaction.

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waste time with a hygrometer and it would depend a good deal upon conditions and the machine whether we would use a cloth on egg tray or not. Generally it is best to follow closely the manufacturer's directions for operation of machine. We would, in most cases, prefer to start between 102½ and 103 and after the 14th day let temperature run between 103 and 104, with the understanding that the increase in temperature was due to lively chicks in the eggs and not forced up by lamp heat. The ventilator should be closed during hatching. Eggs while being saved should always be kept in a cool place.

Crossing Strains

Q. (1) Would it be desirable to cross two strains of S. C. Buff Orpington fowls—say C's strain and G's strain? As I understand it both of these strains are bred for utility purposes and I cannot decide if it would be wise to cross them.

A. (1) We would not cross the strains as we do not see how it would benefit you any. By making the cross you



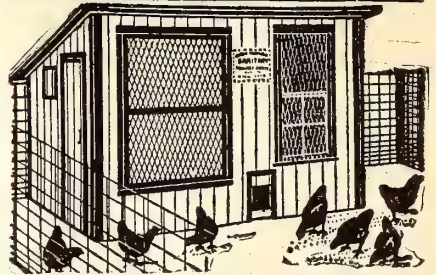
S. C. Buff Orpington from Sunset Poultry Yards, C. E. Siegel, Prop., Olneyville, R. I.

would undoubtedly get a large percentage of offcolor and offtype specimens the first season. It would take you several seasons to breed the flock in to secure a reasonably good percentage of uniformity and quality. Secure sound, healthy, vigorous, well mated specimens of either strain and then breed them and their progeny in-and-in. Always selecting breeders for quality, health and vigor and endeavoring to make up your matings to balance defects on one side with strength on the other.

Q. (2) What is best treatment for hens, which have laid steadily since middle of December, in order to secure early moult and have them laying in November? The hens are one year old, bred to lay, are fat and have range run. All are standard bred.

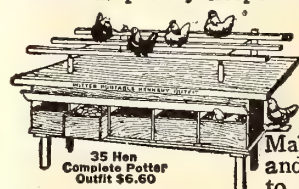
New Washington, Ind. G. J. D.
A. (2) If you intend to breed the hens, why urge them to lay in fall and early winter? For those to be used exclusively for breeding we would be better satisfied to have them begin laying in January if otherwise in good order. To moult them to best advantage, give them a large shady range with open

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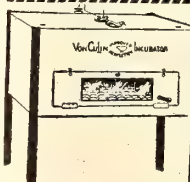
in greenhouses, garages, hog and poultry houses, small buildings. Price \$36.50, freight paid. Louis J. L. Amoreaux, Norton, Mass., says: "Your No. 200 Heater cared for our greenhouse, 75 x 14 x 9 feet, last winter at 23 below zero." Mail orders direct. Write for circulars of heaters and steamers. **Ripley Mfg. & Steel Boat Co.** Box H Grafton, Illinois

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Provides fresh, sweet, and wholesome green food and protein the year around, at lowest cost. Only \$3 Delivered. West of Miss. River add 50c. 8 pans 11x15 in., perforated, galvanized steel. Knockdown. Descriptive Booklet FREE. 10-days free trial.

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25 Nice Breeding Males For Sale.
BALCH & BROWN MANCHESTER, CONN.

front quarters this summer. Let their food be largely oats and greens, supplemented with other hard grain for variety. About the first of October introduce the laying ration with a good dry mash, but do not feed too heavily. You will find cabbage a good fall green food for moulting birds.

Copper Drinking Fountain

Q. (1) I have a copper drinking fountain. Is it all right to use for chickens?

A. (1) Yes, if you keep it clean. Do not use medicines in it. You can probably sell it for a price that will buy several galvanized iron fountains.

Q. (2) Have some White Wyandottes about six weeks old and they seem very slow to feather. What is the trouble?

Cincinnati, Ohio. C. B.

A. (2) Some chicks, especially males, are apt to be slow to feather at that age. Give an abundance of fresh greens and a daily allowance of some good animal food. Scalded fresh fish will prove an excellent food to hasten feathering.

Additional Summer Ventilation

Q. What is best way to ventilate a poultry house in summer? Mine have open fronts but have no other ventilation. Should there be openings at back above the roosts? Houses have droppings boards and at back are five feet high and are seven feet high in front. Laurel, Ind.

P. W. S.

A. With semi-monitor top open front houses, we open the monitor windows in summer and in our climate find that sufficient. In a long house an opening about four inches deep by the length of pens, just under the eaves will help cool the house in summer. With colony houses a two foot square window at either side of house, located at rear of side, close to roof and well above the roosts will help in hot locations.

Poor Hatches

Q. I bought several sittings from three well-known reliable breeders this spring and have had poor results with the eggs. Used hens for hatching. From two sittings I did not get a chick. Other sittings gave me fair hatches except one in which I got only three chicks. The eggs were apparently all well packed and arrived in good order. The two lots that did not hatch came in corrugated fibreboard cartons. Eggs from same breeders shipped in baskets lined with excelsior gave me fair hatches. How do you explain it?

N. Y.

J. H. C.

A. We believe that the failure of a good many eggs to give satisfactory hatches is due to abuses during transportation. Egg packages are roughly handled and shaken up until the eggs are no longer fit to hatch. In some cases the eggs are placed close to a heater or steam pipes and so ruined. We have had a few complaints of eggs that did not hatch. In one case two lots were shipped to same party and no hatch reported. The eggs were packed in a corrugated fibreboard package and cells of filler packed with cut clover around the eggs. Eggs from same lot hatched well at home and the only explanation we can make is that the packages were so badly shaken up that the eggs were spoiled in transit. Shippers of eggs in our section are



August CHICKS

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S. C. White and Brown Leghorns and odd lots, 8 cents each; Barred and White Plymouth Rocks, S. C. and R. C. Rhode Island Reds, 10 cents each; White Wyandottes, S. C. Black Minorcas, S. C. White and Buff Orpingtons, 12 cents each. Hatches, July 4, 11, 18, 25. August 1, 8, 15, 22. No chicks after August 22.

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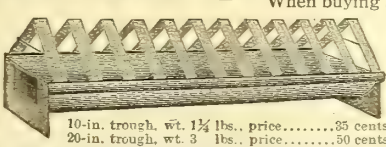
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not only one of the best but one of the oldest strains in America. Eggs for sale from our best matings. Catalogue free.

D. F. Palmer & Son Box 35 Yorkville, Ill.

complaining of unusually severe losses on shipments the past season. Scarcely a lot of eggs goes over our local division of the railroad without excessive loss from breakage. It is all due to carelessness and rough handling by express agents and railroad employees. It is no unusual thing to have two dozen cracked or broken in a 30 dozen case, when packed with strong fillers or heavy cartons. Within the past week we have learned of one case of breakage of seven and one-half dozen in same case and another of nine dozen in a case. Such breakage is inexcusable. Thus far these shippers report that claims for breakage have been settled after a wait of about two months. For shipping hatching eggs the only satisfactory package we have found is a market basket lined with excelsior and each egg wrapped in paper and excelsior. Generally the handles are broken off the baskets but the eggs get thru in pretty fair condition.

Bald Heads

O. I have fifteen pullets, all laying, which seem to have something the matter with their heads. The feathers are all coming out around the comb and they are continuously shaking their heads. I thought it might be lice or mites and I used a head lice ointment and rubbed it well into the base of the feathers, but it does not seem to reach them. Please advise me.

C. G. C.

A. Trouble may be parasitic and it may be constitutional. Try another application of the ointment. Get the birds out on a good green range where there is plenty of shade. If you can't do that clean up the poultry quarters, see that the house is made as cool as possible for summer, make the runs shady and cool, and feed an abundance of fresh raw greens. Plenty of green food, a hard grain ration and little or no mash, will often cure a very obstinate case of baldness in fowls.

Sore Eyes in Chicks

O. What can I do for sore eyes in chicks? Have tried vaseline and it does no good. It isn't roup and their eyes don't swell. Eyes are watery and red on inside. Otherwise they are healthy. Chicks are ten weeks old. Never saw anything like it before.

Nappanee, Ind. I. H.
A. In a wet season this trouble is not uncommon. Be sure that quarters are clean and kept as dry as possible. Avoid use of mouldy litter or bedding. Dissolve a teaspoonful of boric acid in a cupful of water (use boiled water) and use this to bathe affected eyes. In moist mash use one teaspoonful of flowers of sulphur to a quart of mash.

If you were suddenly removed from your present established place of business without funds or influence, what resources have you to fall back upon? Is there anything which you could do sufficiently well to make a stand for yourself in new surroundings? While this is the day of specialties, yet no one should consider themselves equipped for life without a line of resources to broaden an otherwise narrow existence. The resourceful individual knows no discouragement, fears no defeat. He calmly goes around or over any obstacle appearing in his path which he is otherwise unable to overcome.

BARGAINS

S. C. WHITE LEGHORNS



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4th Cock, Boston, 1916

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Readers Experience Department



Poultry Business Universally Attractive

IT IS MY FIRM opinion that no industry nor single occupation is so universally attractive as the poultry business. It appeals to both young and old, rich and poor alike and becomes the more fascinating the deeper one goes into it. It matters not where you live, what you do, or even who you are. You may be just "keeping a few chickens" to utilize the scraps from the table, or the chickens may be keeping you and your family in all the necessities of life. To the amateur or professional the breeding of poultry is a most fascinating occupation.

It fascinated me to raise a few Golden Campines in my backyard in my spare time. My regular employment is that of a machinist and I am only an amateur in the poultry line. To appreciate the Golden Campine, one must picture the graceful and symmetrical form of the birds and the brilliancy of their plumage of attractive golden buff hackle, neat head with large brown eyes, bright and prominent, surmounted by a bright red comb. The distinct barring of green and gold that follows the hackle finishes off the picture wonderfully well and the male, hen-feathered as he is, seems to match up just right with the females.

To do justice to such a bird, one must see it in all its glory and all its activity for it is certainly a hustler. Double mating is not resorted to in breeding the Golden Campine which is most unusual in breeding a parti-colored bird.

Before adopting a breed, it is always exceedingly interesting to go back into their history and follow up the progress that has been made in the breeding of that variety and every poultry keeper, specialist, or fancier, should love the choice of his particular variety better than any other in order to succeed with it. He should be interested in just what manner it was originated, how it should be mated to get the best results in shape and color not forgetting the productive part.

The Golden Campines are layers of nice, white shelled eggs but it should always be remembered with regard to egg production in any breed or variety, that it depends more on the strain than the breed, more on the care and food given the birds from the time they are hatched thru their productive years than it does on the variety or breed. The knowledge the breeder exercises in selecting and breeding his layers and the use of the trap nest will also be weighed in the balance and shown up in the result. I am an ardent lover of the Golden Campines but I want to say that I would not unreservedly praise them as living egg machines—some may be, but some certainly are not! Like other breeds, and I believe it is true of every breed, high producers may be found in

some individuals but not in flocks.

Various crosses have been used to make the Standard varieties of other breeds we have today. Yes, breeds may come and breeds may go—but the Golden Campine will live on forever. The origin of the Campine is not definitely known, being obscured by the mists of antiquity. As far back as can be traced with any certainty, it had its origin in Belgium and no doubt derives its name from the sandy La-Campine plains. Some claim the existence of the breed during the reign of Julius Caesar, while there are numerous traditions about the Campine being of Turkish origin and one story is told of Johanna of Constantinople raising Campines on her estate near the city of Lills, in Belgium, about the

year 1200 A. D. The only real authentic history we have of the breed dates back to Belgium 400 years ago, and their blood relations should be still there, and the Belgium peasantry still raising them unless the present war has been the means of their extinction.

In conclusion let me add that the Campine is coming rapidly to the front and one has only to visit a poultry show a year or two and note the increase each year in the number of exhibits—which speaks so much for their popularity. Personally I have never regretted falling in love with the golden variety of the Campine, that remind me so much of the heather clad hills of my native land—Scotland.

Chicago, Ill.

WILLIAM L. SUTTIE

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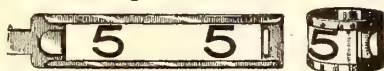
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Success in Exhibiting

My 1915 exhibit was the feature of our local County Fair and Poultry Show in Allegheny County, N. Y., where some 2,000 entries were made and where I won some anticipated prizes. The judge declared of one of my birds "That is the best bird I ever judged—is a better bird than I saw at the recent State Fair Poultry Exhibit in Syracuse." Men there with long strings of birds from many States and all the Barred Rock owners declared they "Had never been beaten." That is why my birds were the special feature of the show.

I want to tell how I produced and how I prepared this exhibit of Barred Rocks in 1915.

PRODUCTION

Mating
Hatching
Brooding

1. The first item of interest in the production of this exhibit was in the mating of the parent family. This mating was done carefully and evidently wisely for we won. Not having won prizes here before I decided to make as good a showing as possible and so began my process of production back in the early springtime. Then it was that I put together a pair of my best birds; the best male and the best female in all my flocks, for a scientific pullet mating. This I did as per written instructions from a noted fancier, but using also my own best judgment. In this mating, color, size and shape and shade and head points and carriage were considered, and in the end I was rewarded with some very fine exhibition pullets and cockerels, all from one mating. After the mating came the selection of well-shaped eggs and of uniform size—the eggs being trap-nested and handled with great care.

2. Then the interest centered in the hatching of the chicks. This was an interesting process in many ways. Four settings of eggs were placed in a neighbor's incubator and were so nearly 'cooked' that only two chicks ever peeped. Then a setting was placed in another neighbor's incubator with the result that ten good healthy chicks were counted. The best results were obtained when a cheap hen brought off 13 chicks from 13 eggs. Then other hatches were obtained from other hens till we had about three dozen chicks that grew under our treatment and became lusty, husky, lively youngsters, the joy of our neighborhood for their clean snap-py plumage and healthy appearance.

3. But the brooding was equally interesting with the hatching or mating. These chickens were brooded under a hen in a home-made brooder, the specifications for the brooder being taken from a poultry paper. This brooder was three feet by five feet and about one foot high, made of pine lumber, divided into two parts, crosswise, one part being furnished with a flooring for the night hovering. At one end of the brooder was an opening to permit the egress and ingress of chicks at will whenever the weather would permit,

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there being a law in this household of hens that no baby chick should step foot out o' doors when the ground was wet or cold. This brooder could be moved into the sunshine or shade at will.

PREPARATION

Conditioning
Cooping
Entering

Preparedness applies to placing an exhibit of poultry on exhibition. This preparation begins with the rearing of the flock—feeding and watching and guarding against chick enemies. The very best of feed and water—the owner not leaving everything to the old biddy, for it is to be remembered that this exhibit was reared on a back lot and was in constant danger from cats and skunks and boys and automobiles. However, not a chicken was lost. Every chick grew to maturity. But the youngsters outgrew their home-made brooder and were sent out into the cold world by old biddy and so were given new quarters in a clean fresh grass plot where they ran to their heart's content and spent their time in just growing big and feathering.

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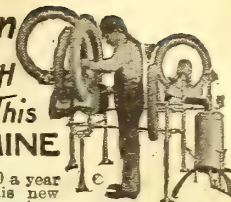
4. The Fair dates approach and these possible show birds must be conditioned and prepared for the worst. The method we adopted for conditioning was the "three tub idea of warm water and handling." The birds were carefully washed and dried with towel and then placed in the sunshine for the more complete drying; the day being warm and ideal for this process. This was done about ten days before the opening of the show. Then in five days the washing was repeated, so that the birds were in the cleanest possible condition when they were taken to the grounds. This conditioning seemed at first unnecessary as the birds looked pretty well and quite clean. But when the washed birds were compared with others not washed then it was that the difference showed itself. There was the same difference there always is after a boy has washed his face and combed his hair. See? And with the washing there was the necessary handling. Every chick was thus handled until measurably tame and unafraid. This proved to be important, as birds not so handled were shy and scared at the approach of strangers.

5. Cooping is an important item in preparing chickens for an exhibit. My coops were my own make. They were made of thin lumber and narrow slats. The slatted fronts were more carefully planed and painted and contained the lift doors. Personally, it appeared that the little attention to paint was more than repaid in the appearance of the coops. Here we found that we were in the lead with clean coops and clean birds, and all in readiness for the blue ribbons. But, one thing more before the drayman comes to take your exhibit to the grounds; I almost forget my tags. What? Why my entrance tags and "one dollar more please for yourself and one member of your family for the whole show." Oh, thanks. I most forgot the dollar. But all these final touches seemed to be worth while, for even a boy must pay for his ticket and wash his face and comb his hair if he were going to a Fair or to Church, and would not a pure-bred, well-bred chick when going to be on exhibition. My clean, newly painted coops with one exception were the only clean coops seen at this exhibit. This had something to do, perhaps, with the wonderful popularity of that particular spot where my birds were located. Why the women wanted to stand around by those clean coops. Other coops were ragged and unpainted and unsightly. There is a reason. But men stood by as well and took notice of my exhibit. Some did not know the variety. "What are those birds?" When informed that they were Barred Rocks they would remark, "Well, they are some birds." "They sure are beauties." Then I began to realize the value of the final touches, the real preparation for the show, of mating, and hatching, and brooding, and conditioning, and cooping and all. Everything counts in the show room, either for or against. Variety counts. The science of mating is something. Good feed and good care and a real live interest day after day will certainly count for much in fitting up your birds. Put your best thought into your production and preparation if you desire to win the blue ribbon. The judge will come across with the ribbons.

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Contains Oatmeal—makes big, healthy, fast growing chicks.

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Home and the Table

Good Things for Everybody

Helen F. Woods
Editor

If I have faltered more or less
In my great task of happiness;
If I have moved among my race
And showed no glorious morning face;
If beams from happy human eyes
Have moved me not; If morning skies,
Books and my food and summer rain
Knocked on my sullen heart in vain,
Lord, thy most pointed pleasure take
And stab my spirit broad awake,
Or, Lord, if too obdurate I,
Choose thou before that spirit die
A piercing pain, a killing sin,
And to my dead heart run them in.
—Robert Louis Stevenson.

* * *

WHOEVER WALKS ABROAD with eyes open, this summer of 1916 cannot fail to be wonderfully impressed with the beauty of the countryside. Of course we admit it to be the wettest season within the memory of the oldest inhabitant, the worst for corn and berries and the most prolific for mosquitoes—but never was the grass more green or the hay crop better, never

the foliage more luxuriant. Showers have been too frequent for the roads to become dusty, yet the rainfall has not been so heavy as to keep the roads muddy. No one can complain of "the long hot season," or of a "long drawn out dry spell." Off across the hills and valleys a faint mist arises from the moist earth in unmatched blue-gray ranges. Or, we awake some morning to find our little corner of the earth an island, isolated from all else by a deep and apparently impenetrable sea of fog. Off yonder where the wide chimneys of a neighbor's house rise majestically above river and woodland, only a deep impervious mist envelops the earth. To the north we are cut off from dense pine woods; to the east, the meadows have drifted off into space; to the south, the river is lost in a sea of fog; and westward, only the dim outlines of our century-old barn resting securely on the

edge of nowhere, remains visible to the eye. All else is space. We have cut loose from our every day environment and drifted off to sea. Not a sound save the twitter of birds and the occasional note of the yellow-billed cuckoo disturbs the illusion of our sea-bound retreat. Suddenly, dark, forbidding, steel-gray clouds bank over-head. The roar of distant thunder rattles thru the fog. The rain descends in slant-like sheets, pounding effectively on surrounding fog banks, until they are forced to break away and retreat into the distance. As suddenly again the radiant face of the summer sun bursts thru the rain and mist, and the earth beams her gladness. Every leaf, every blade of grass, glisten like rarely cut gems in the sunlight. The rain abates, we sight familiar shores, sail steadily into the home port, and safely anchor at our old moorings.

* * *

It is always a delight to associate with those who appreciate the little joys and pleasures of life. Equally enjoyable is association with one who systematically and without hesitation, passes unnoticed the unnecessary little "disagreeables" along life's pathway. The ability to do this is a real art which each of us needs to cultivate. On meeting one of this "good to know" type, there is always a feeling of having unearthed a very rare find—one of those truly great souls who has conquered dominion over self and who stands forth like a beacon light in a fog along a rocky shore. We are all too prone to expect these masters of men from among classes of people who have had cultural opportunities and education leading to their development.

The rule does not need changing as there are always exceptions to otherwise perfectly good rules, as the following occurrence will demonstrate:

A woman of little education and slight opportunity lived in a small unpretentious cottage by the shore of a woodland lake for a quarter of a century or more. When I first knew her she could not be called a poor woman as regards worldly goods, for she and her husband had worked hard and practised economical living for long years and were by the exercise of their own thrift, placed above want. They owned their modest home—had money in the bank, children and grandchildren, all good assets—when a calamity overtook them in the shape of the discovery that the community surrounding their isolated home was one of the marvelously beautiful spots of the country. The community did not at once become a second Newport or Bar Harbor, but



Sunswick Summer Sale

THIS great S. C. Buff Orpington Specialty Farm has carried off the highest honors at the leading Shows of America for many years. You should have some of these magnificent birds in your own yards. They are proven money-makers.

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Cocks and Cockerels : : \$3.00, \$5.00 and \$10.00 each
Hens and Pullet : : 2.00, 3.00 and 5.00 each

We are booking orders for Show Birds—early fall delivery. There are some exceptionally fine youngsters among our 1916 stock. We shall be glad to correspond regarding your individual needs.

Write at once for our Summer Sale of bargains containing special prices on Show Birds and Breeders. On sale for six weeks only.

SUNSWICK POULTRY FARM Rufus Delafield, Owner Box J, SOUTH PLAINFIELD, N. J.



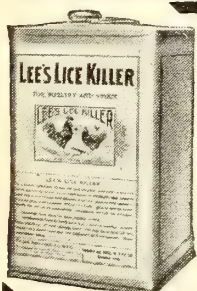
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Eggs \$1.00 per 15 \$2.75 per 50
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9 Firsts, 8 Seconds, 7 Thirds, 2 fourths and 3 fifths premiums at the big Ky. State Fair and great Armory Show, Louisville, prove our unapproachable quality. Exceptionally low prices on yearling breeders. Send us your order today for what eggs you need.
POPE & POPE, Box A, Louisville, Kentucky



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I have many times gone into poultry yards, whose owner said, "My hens have no lice," and taken from 100 to 500 lice from one hen, using Lee's Lice Killer. Lousy hens don't lay well. Lousy parent stock bring weakly fertile eggs and sickly chicks. Lice and mites seek the warm bodies during winter and in spring will travel a mile to get at young chicks. Clean up and urge your neighbor to clean up, now. With Lee's Lice Killer there is no dusting, dipping, greasing or handling. Simply painted or sprayed on roosts, etc. It kills both by vapor and by contact. It gets the lice on the bodies of chickens roosting over it, also the insects causing "scaly leg," also the mites and lice about the roosting places. The Lee products—Lice Killer, Germozone, Egg Maker, etc., are sold by dealers most everywhere, generally one dealer at each town. Full particulars, catalog, poultry book and name of nearest agent sent free on request. Write today.

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Every year for 25 years winners have been hatched from my eggs all over the country. Four of the best pens I ever put together. All headed by a yearling cock mated with hens. Eggs, \$5.00 per 13; \$9.00 per 26. I replace unfertile eggs.

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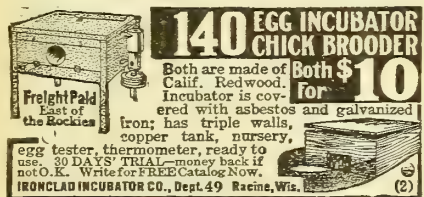
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Cuts all bone with adhering meat and gristle. Never clogs. 10 Days' Free Trial. No money in advance.

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HARMLESS TO POULTRY DOMESTIC ANIMALS AND MAN

gradually the best sites were bought up, and well to do people built homes and came to live there. The little cottage on the shore of the lake was directly beneath a huge cliff, surrounding which, rose groups of magnificent white pines and feathery hemlocks. One day this property was acquired by a family who had but lately "come into some money." Sundry notices were issued from time to time to the effect that trespassing by the family below the cliff, along the cliff family's beach front, by boat or on foot, was strictly forbidden. Building operations began on the cliff and the carting of building materials and workmen was regularly carried on by means of a winding roadway cut out of the virgin forest, built and owned by the hard working cottager beneath the cliff.

One fine day in late spring the family moved into their new home on the cliff. The following Monday morning, the woman below the cliff, having a particularly large washing (all the grandchildren having been with her over Sunday) and feeling well pleased with the result of her morning's work in the long line of snowy clothes stretching the length of the lot on the beach, and back again to a tree on the boundary line, stood surveying them with evident pleasure. Down the rough and difficult footpath from the cliff, unsteadily came an old man—"My daughter sent me down to tell ye, she don't want your clothes' line tied to that tree. It's on the boundary line and half of it belongs to her and she don't like the looks of your clothes hangin' there." There was little said in reply except that the request was politely granted and within a very few moments the clothing was removed from the line and another place was found to tie to. The old man, half way up the path called back, "Oh, ye needn't take 'em down today, but she don't want ye to hang 'em there again."

"I can just as well change them to-day," came the pleasant reply. When the man of the house returned for his dinner, his wife was changing the line and to use his words he was slightly "put out to have them new folks tell his woman where to hang her clothes." But there was no neighborhood disturbance. Other newcomers who had seen the occurrence, expressed their opinions in no uncertain terms and voted to a man that the family below the cliff would be perfectly justified in closing up their roadway, which all cottagers continued to use for teaming.

"Yes," said the old man, as he sat peacefully smoking his pipe as the last rays of the setting sun shed a path of gold across the lake, "we could shut folks out of our road and make 'em do their teamin' on the side cliff. We could'a hung to our half of that boundary tree, but we've lived on such good terms with this place and these trees fer so long, that we don't care about startin' a rumpus over 'em now. Fact is, my woman and me is kind of proud that we found this place before these new fangled folks and that we hewed the way in here and whoever wills can follow us. We're proud of our road and them as wants to, is welcome to use it. I always meet folks half way in these disputes and if they get to cavortin' too much—I give 'em another quarter."

The circus field with pitched tents and floating banners loomed up at the top of the hill. The notes of a steam or-



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White Plymouth Rocks



Exhibition Tamworth Swine, St. Bernards, Line Bred White Persian and Blue Persian Cats.

"Bella Vista" White Rocks won the Zenoleum trophy at the 1915 Palace show, for the greatest number of points on any one breed.

I am entirely out of surplus stock and eggs; nothing for sale except very young stock. Naturally I have nothing but the best left, which is not for sale, but I must keep Bella Vista Farm White Rocks before the public. "Whitened on Blue Grass Range"

BELLA VISTA FARM, Lewes P. Doerhoefer, Prop.
Department A - ANCHORAGE, KY

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Barred Plymouth Rocks and
Single Comb Brown Leghorns

OUR BREEDERS of this year are proven facts, and we now offer a few birds direct from our breeding yards and also a few full pens as bred by us. *Our 1916 chicks have been produced from these birds.*

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America's Richest Appearing Strain
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The kind the fancier delights in. Winners at Boston, Chicago, Madison Square.

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At each of the last two Madison Sq. Garden, N. Y., shows, I won more firsts than all my competitors combined. Feb. 1915, 7 1sts, Jan. 1916, 6 1sts. Let me start you right as I have others. Egg prices now 1/2.

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White Langshans and White Indian Runner Ducks

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MOHAWK POULTRY FARM

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Pens, Trios and Single Birds, both in old and young stock at rock-bottom prices for this month. Some very nice March hatched pullets and cockerels both in utility and show birds.

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BUFF WYANDOTTES

Winners 1915-16, Palace, Madison Garden and Boston Shows. Best single winter egg record at 4th Storrs Contest. Summer bargains in adult stock.

Dr. N. W. Sanborn, 924 South Road, Holden, Mass.

Mention American Poultry Journal when writing to advertisers.

gan could be heard clanging out a metallic air. On every hand loud voiced barkers shouted their wares. Gaily dressed girls and groups of small boys hurried thither from all quarters. A great mixed throng of humanity journeyed toward. One lone, small boy trudged sorrowfully down the hill, drying his tears with a frayed edge of his coat sleeve. Men, women and children glanced at the boy—and hurried on. "Why is he going away from the circus?" asked a little girl of her father as they passed the disconsolate youngster.

The father stopped short. "What's the matter son?" he called after the boy.

"Lost me ticket and aint got no more money," wailed the boy in reply.

"Come along with us and we'll see if we can't get you one," and they all went off up the hill, smiling in real circus day fashion.

Thruout the performance during the afternoon, I glanced from time to time at the boy across a line of well-filled, hard, board seats—and his face was a revelation in happiness. One look at the little girl's father showed that his eyes and thoughts were upon the boy, while the whole incident proved an inspiration to those who saw it.

* * *

FRUIT JAM

By E. C.

Use an equal quantity by weight of picked over, washed fruit and sugar. Strawberries, raspberries, currants, gooseberries or blackberries are equally good for use in this jam. Place the fruit in a preserving kettle on the back of the range and allow to come to a boil. Heat the sugar in the oven and add to the fruit. Boil until it will solidify when cool by trying a little on a saucer and placing on ice. Some fruits will not require more than forty-five minutes, while others will take from an hour to two hours according to the watery condition of the fruit. When cooked to the proper consistency, place in jam jars or jelly tumblers, seal with paraffin and store in a cool, dark place.

* * *

DELICIOUS CREAMY RICE CARAMEL PUDDING

By Clara Hersom Weeks

Wash one cup of rice and soak it for three hours in plenty of cold water. Drain off the water, place rice in double-boiler with four cups of milk, season with cinnamon and cook two hours.

Put one-half cup of sugar in a small pan on the fire and stir until it turns brown and becomes liquid; then instantly pour into a well-warmed three-pint mold, and turn mold around so that the sugar will coat all parts of it. Do this quickly or sugar will cool and not spread.

Beat two eggs well, add one-half cup of milk and stir into the boiling rice, also add scant teaspoon of salt. Let cook but a moment and pour into the sugar lined mold. Cover mold, place in pan of boiling water and bake in the oven one-half hour. When firm take from oven, let stand ten minutes and turn out upon a flat serving dish. Serve hot with a cold custard sauce.

One of our greatest statesmen was asked the secret of success. He replied, "It is the simplest thing in the world. Do what you have to do right away. Do it as well as you possibly can and keep on doing it."

1/2 Price for hatchling eggs, after May 15th. Big reductions in Baby Chicks and Breeding Stock.

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English cockerel sired hen with official average of 314 eggs.

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Award in their

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Contest, five

hens laying 1043

eggs, 209 average.

Highest official Red

record we know of.

White Wyandottes.

Missouri Contest,

our ten laid 2006 eggs,

one laying 265 eggs.

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Womans Success With Poultry

Helen T. Woods, Editor

A Department for the Exchange of Helpful Poultry Experiences



A CITY GIRL BECOMES A POULTRY KEEPER

Beauty and Utility of Black Langshans. Easily Handled, Good Layers, Good Mothers and Particularly Good to Eat.

By LAURA L. THRASH, Ft. Wayne, Ind.

IN THE YEAR 1900 I spent my summer vacation with a girl friend on a beautiful farm in central Illinois. My first morning there I was invited to the poultry house and stationed myself near the entrance when the door was thrown open. In about a minute, to my way of thinking, my eyes fell upon the most attractive flock of poultry in the whole United States—namely, a flock of Black Langshans.

As they came forth in groups of threes, fives, tens and dozens, I attempted to count them but the beauty of the flock so bewitched me that I lost track with the number seventy-three in mind. Later I was informed that the double house contained over three hundred beautiful birds all alike. Suffice it to say they impressed me so favorably as to determine the bent of my future career. Honest, I went so far as to say that the man I married must have a farm and sufficient cash to set up in the poultry business with the best Black Langshans to be had. To me, seeing was in truth believing and when my eyes fell upon those evenly typed birds I was convinced that they were the most beautiful sight I had ever seen—even tho I had attended World Fairs.

To begin with the surroundings were ideal and their range was in a pen or field of ten acres, this fact enabled the birds to promenade, doing themselves justice in making their debut before company. I remember I remarked as the husky, proud cocks would step high and carry themselves so far above the average chicken, that they reminded me of living models displaying the fashions in the large cities. It appealed to me as more interesting, and during the two weeks' stay on the farm I thought I was making love with the Langshans. However, don't be surprised when I inform you, three years later my wish came from the farm in 1900 came true.

I got my husband from this farm and also a start in pure-bred Langshans, fifty in number. The girl friend is now my sister-in-law and as yet the same good friends. Up until the time of my marriage, I lived in the city, now I am a regular "hay seed" farmer and a Black Langshan fancier for the following reasons:

First, their beauty as described, with a rich greenish, glossy black plumage, heavy toe feathering, and vigorously built. Hens ordinarily weigh six to seven pounds and I have about one dozen in stock, age two years in April,

that weigh nine and ten pounds each. Their frame is large and can stand the extra surplus. Cocks weigh from nine to ten pounds each. This is much to consider in selecting a favorite breed.

Another very important point to consider is the disposition. Do you fancy a chicken that picks and flies all to pieces like the true adage, "an old sitting hen?" The truth of the matter is I am afraid of them. It is a settled fact the Black Langshans have them all beat in this way; they make ideal mothers. I simply take any old hen off her nest and place her carelessly outside the nest until I have it ready, pick her up, set her on the eggs, and she is ready for business.

Don't think because they are large they break eggs. I dare say a Langshan will break less eggs than the "fluffy ruffle" kind, simply because they are more refined and are careful getting on and off their nests and do not

become excited when you look under them.

Take the wild hen. Even tho she is light, when you go near her away goes two or three eggs. I have witnessed this scene in visiting other yards. Another thing in their favor is the Black Langshan mothers aren't inclined to be ill-favored when other chicks a few weeks older or younger happen to get in her coop. Instead, she will treat them equal to her own, what I call a real mother. So you shouldn't worry if older chicks lose their way and by chance enter another coop because they will not be picked to death, but instead will find a warm welcome.

For example, a neighbor of mine has a blooded variety of small birds. They are wild as deers, last season he was obliged to cut off the ends of bills to save the lives of the baby chicks. The result was two old hens bled to death. He was mad and you can guess the



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A hen becomes a profitable investment when it starts to lay. Your pullets should begin to lay when they are four and a half to five months old

Protein fed in the right proportion is indispensable for the development of the young stock. Diamond Corn Gluten Meal contains the necessary protein.

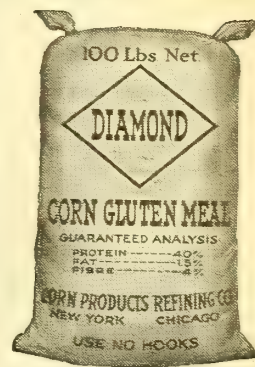
Try this formula for your young stock:—

50 lbs. of Wheat Bran	50 lbs. of Diamond Corn Gluten Meal
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In one case where this dry mash was fed a pullet laid her first egg four months and 10 days after she was hatched. The rest of the same lot were all laying before they were five months old.

The way for you to obtain the same results is to get Diamond Corn Gluten Meal from your dealer, and start feeding your young stock this mash.

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All Eggs Half-Price After June 1st. Some stock for sale.

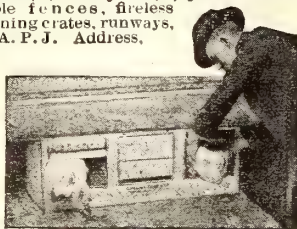
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the Better they Lay
Can furnish you birds to
win, bred from Chicago
Coliseum and Madison Square winners. A won-
derful lot of youngsters will be ready for early
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Dr. Hess INSTANT LOUSE KILLER

Kills lice on poultry and all farm stock. Dust the
hens and sprinkle the nests, or, if your fowls are
provided with a dust bath, sprinkle. Instant
Louse Killer in the dust bath every other week—
the hens will do the rest. Comes in handy sif-
ting-top cans. 1 lb. 25c; 3 lbs. 60c. (except in
Canada and the far West). I guarantee it.
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Incubators and Hovers are the
final expression of the art of
Incubation. Absolute control of
Heat, Moisture and Ventilation insures
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Best Cockerel, Harrisburg, Pa., Dec., 1915
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Send for Mating List.

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A few good breeders for sale. Write us for prices.
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America's Champions. Eggs half price. \$5, \$2.50 and
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Breeding and exhibition stock at reasonable prices.
Write wants. Address

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Clearing sale of stock.
Yearling hens and two
year olds, \$1.50 and \$2. Cockerels from range flocks,
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erels, \$1 each—some good show birds among them.
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400 youngsters coming on. Four months old chicks
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mean more eggs and healthier hens. A postal will
bring full details.

THE A & D MFG. CO. P. O. Box 277-A CHICAGO, ILL.

rest. This year he starts with a pen
of blooded Black Langshans.

Now to give them credit for their
disposition, they are not destructive, and
their being contented is without a doubt,
another favorable asset. Their dispo-
sition is in direct contrast to a flying,
roving nature, and since I have had
flower beds near them with only a two
foot fence, I can say up to date, a Lang-
shan has not caused any trouble, even
tho the legs of the giant cocks seem
long enough to step over without much
exertion. Why? Because they are
contented, which is their nature. You
must agree it is more than they could
say of us at times. Another reason I
prize them so highly, is the combs of
the hens are large enough to be pretty,
and at the same time are not prominent.
When combs are large they get frosted
quite easily during the severe cold snaps.

The cockerels' combs are quite large.
However, in most varieties the combs of
cockerels are prominent, and in many
varieties the combs of the hens run the
same size in proportion as that of the
male birds, so a small comb on the
Langshan sets them ahead one more
point to my way of thinking.

Another beauty of this variety is—
they are all pals. They are inclined
to mate up in large groups, making it
a pleasure to cull out a roast, or to
drive them into their house. They all
agree to the decision of their husky
leaders, even tho it means the pot for
them. And when it comes to eating
them, no other fowl can eclipse them.

If you care to enter the show busi-
ness you sure have a "walk away," pro-
viding you have pure-bred Langshans.
Carefully select the birds for quality,
and type evenly, and general appear-
ance. They make a very attractive
sight when on exhibition in a show
room. Try and see for yourself. In
scoring they have advantage over other
poultry in this way; the plumage of a
Black Langshan is even and true to
color, while many others are hard to
mate, particularly when it comes to
marks and trueness of color. Even in
a white variety this trouble is found. It
is the ambition of every true fancier
to develop the best strains of his fa-
vorite bird, or to produce a bird far
superior to anything so far shown. This
is hard to do when you start with one
strain and then jump to another. For
instance, you may have gotten your in-
formation from one breeder, and after
a course of time decide to introduce new
blood in your flock; by so doing you
go to another breeder with an entirely
different strain. It's a mistake. Don't
do it. First study the different var-
ieties and visit the yards as I did when
a girl, and before deciding, make sure
your choice over all; then having select-
ed a strain, it is the wisest to stay with
that and to improve it to the best of
your ability.

It truly behooves us to be careful and
exact in our selection of the offspring,
and to keep an accurate record of all
the matings until such time as we shall
have established for ourselves a strain
that will stand forever.

It took me some years to learn. As
a rule true fanciers and breeders are
often the "small breeders," and they are
comparatively unknown in the show
room. Nevertheless, too often we small
fish in the poultry game decide we have
no chance, but to my way of thinking
we small breeders have the advantage,
if we but knew it.

A truthful poultry fancier I am person-
ally acquainted with, related this experi-
ence, with a blooded strain of a small var-
iety. He said when a strange dog or cat
comes on his poultry farm the very next
day, and for several days after, the egg
record drops fully one-half, while the
home dog continually about the prem-
ises is never noticed by the same hens.
I doubt very much if the Langshans
would notice even a "Ford" car in their
yard!

Another point in favor of the Black
Langshan, is, if you only consider this
variety for market prices you have a
variety to answer for all general pur-
poses. And for capons they are quite
profitable, as they get to weigh from
nine to twelve pounds each after being
caponized. This year capons live weight
are worth eighteen and nineteen cents
per pound. I can back up this state-
ment from my experience, and I can
further say that there is big money in
capons.

As yet, I have my first order after
thirteen years experience, to prove a
disappointment to myself or customer.
I don't mean to say this boastfully, I
only care to have the Black Langshans
get all the credit due them. It has been
my effort to give true statements con-
cerning my selection, also for being a
fond fancier of the Improved Black
Langshan.

Patented DISCOVERED



The world's best safety lamp
and perfect egg tester. Has
extra strong bulb-eye lens.

Price single tester.....\$1.00
Double tester.....1.25

Post paid. Free circular.

C. Lingeman 3110 Elliot Ave. St. Louis, Mo.



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Eggs for hatching from 6 grand pens. Silver cup
and blue ribbon winners, \$2.00 per 15. Write for
catalog. FRED A. RUF, Crown Point, Ind.

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Eggs, Chickens and Fowls AT HALF PRICE
DURING June, July and August.

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win all—1st and 2d at Lake Forest Fair. Stock for sale.

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Examine

those hens that are not
doing well, send for a box
of Louse Remedy of the
White City Egg Farm, Seville, Ohio, thereby pre-
vent loss and bring profit. Price, postpaid, 50 cts.

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all ready for the early fairs. January cockerels
weighing 6 lbs., pullets 5 lbs. With color and type to
burn. R. M. Seward, R. 15, Lewistown, Ill.

Buff Orpingtons

Eggs for hatching, grand exhibition pens; also
from range flock at \$4.00 per 100.

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Choice breeding stock for sale.

C. W. BESSE - Jefferson, Maine

Buff Orpingtons

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F. A. KAUP Box 101, GLEN ELLYN, ILL.

MONTHLY PRIZE CONTEST DEPARTMENT

The American Poultry Journal offers the following prizes monthly for the two best articles received on or before the fifteenth day of each month: For the best article, a prize of Three (\$3.00) Dollars will be awarded; for the second best article, a prize of Two (\$2.00) Dollars will be given. Articles intended for the Contest must be written on one side of the paper only and should not contain less than 1,000 nor more than 2,000 words. The articles may be written on any subject pertaining to poultry culture. We reserve the right to retain all articles submitted and to publish such as we deem worthy of space. Send all articles plainly marked to Contest Editor, American Poultry Journal, Lock Box 4, Silver Lake, Mass.

EXPERIENCES OF AN AMATEUR.

First Prize Article in American Poultry Journal Monthly Contest.

By JULIUS L. SCHMIDT, St. Cloud, Minn.

WE HAVE ALL heard a great deal about the advantages and disadvantages, for the amateur, of hatching and rearing by natural and by artificial means. Each system has its advocates. Personally, I have found the natural way the most satisfactory and prefer the old faithful hen, set in a soap box.

In January, 1915, I bought a pen of Barred Rocks, cockerel mating, from a reputable breeder, who advertises in this JOURNAL, and paid what my friends called an exorbitant price, remarking that I "was foolish to squander money in that fashion."

I felt at the time that I had more than my money's worth, but I decided to keep rather quiet on the subject for the time being and await developments. I housed them separate from the rest of my flock and gave them a good chance to make good, which they did by shelling out eggs in great numbers.

March first, I began to save the eggs for hatching and during this month the four hens laid 107 eggs—one hen did not miss a day. I set the eggs under a mongrel hen, of which I had a fair sized flock. The mongrel hens proved to be good "brooders," which reminds me of the saying "that there is nothing can beat a scrub hen in eating and sitting." The first hatches did not do so very well, but I attributed it to the fact that I had

Shoemaker's Poultry Book and Almanac for 1916.



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The Globe

The book has about 200 pp. with many colored plates of fowls true to life. It tells all about chickens, their prices, their care, diseases and remedies.

All about Incubators, their prices and operation. All about poultry houses and how to build them. It's an encyclopedia of chickenhood. You need it. Only 15 cents. Your money back if not satisfied.

EGGS AT HALF PRICE NOW

Send for circular—it contains prices that will interest you and everyone else, and is free for the asking. There are thousands of the best breeders for the coming season hatched during August and Sept. C. C. SHOEMAKER, Box 605, FREEPORT, ILL.

no satisfactory place to set the hens. I decided to sell off some of the fattest mongrel hens to a local hotel and to use their vacated house with a floor space of 12x24 for sitting hens exclusively. I arranged the nests along the walls and kept drinking water in the centre and a good supply of corn scattered about the floor.

Every morning at the same hour I removed the hens from their nests and allowed them plenty of time to drink, eat and dust themselves. As a rule they returned to the nests of their own accord—but I kept an eye on them to see that they made no mistake about it.

Before placing them on the nests I had dusted them all thoroly, and during each hatch I dusted them three or four times more with a good lice powder. Following this rule, I have had very little trouble with lice and the hens are remarkably contented and happy and not so quarrelsome as many broodies "I have met."

When the chicks are hatched, after greasing their heads with a mixture of one cupful of lard and two teaspoonsful of kerosene oil, to ward off head lice, I put them out in open front coops with their foster mother who has just "come out" of a good dusting.

At first I used wooden coops made from dry goods boxes, but I did not like these very well on account of the cracks in the boards being breeding places for lice and mites and therefore requiring frequent disinfection. I bought a dozen round metal coops, having a diameter of twenty-four inches, and fourteen inches high at the eaves. They are furnished with ventilation at the top, admitting fresh air at all times. The coop also has three doors, one a panel door to let the chicks out but keeping the hen inside. Another door is made of wire mesh to keep hen and chicks in while keeping rodents out, at the same time admitting a good supply of fresh air. A third door is provided for closing up the coop on cold or rainy nights. I like this coop so well after using it last season that I ordered more for use this year.

The November following the purchase of the Barred Rocks, I did not have a scrub left on the place, and after culling out all specimens of the new breed, I put eighty fine pullets into winter quarters in the coop I had used for sitting hens in the spring. On the advice of a fancier, I also saved a like number of cockerels to be sold as breeders the following spring. I was a little doubtful as to the advisability of keeping thru the winter these cockerels, for feeding so many "non producers" pulled heavily at my purse. But in January, 1916, the same friend induced me to enter some birds at the local show and I have been thankful to him ever since, for in a large class, I won first and third cockerel on two males entered.

I went home jubilant, well satisfied

with my win—and to my surprise I sold breeding cockerels to my skeptic friends who had insisted I was "stung" less than a year before. It was not long before I had sold off all the cockerels I could spare, most of them being sold locally, but a number out of the state. After counting up cash from orders and the amount of food consumed, I felt well repaid for wintering the cockerels—again I must thank my friend.

Altho I have only three city blocks in the suburbs, I have not been cramped for room in rearing young stock, as they have the run of a number of lots adjoining mine, the nearest house being several blocks away. The only trouble I have experienced from this unfenced range was the result of their getting into a field not far away, when the owner of said field threatened to break

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Money back for dead ones as far as Colo. Texas and Me. Pamphlet Free. C.M. Lauver, McAlisterville, Pa., Box 21

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Stock For Sale.

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Fogg's Single Comb White Leghorns

Bred to lay. Get our special prices on breeders and cockerels.

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Speckled Conrad's Sussex Red

Stock and eggs in season from these grand winter layers.

E. K. CONRAD SX Street, Hackensack, N. J.

Taylor's Wh. Wyandottes

Good breeders for sale cheap.

GEO. TAYLOR R. R. 11 URBANA, ILL.

COLUMBIAN WYANDOTTES

Winners of 1st pen at Boston, Jan., 1916. Extra good yearling breeders for sale, price reasonable.

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Single Comb White Leghorns and White Wyandottes

Cleveland Winners. Stock for sale. Circular free. H. C. & C. W. SIXT WEST PARK, OHIO

Rocks, Reds, Orpingtons and Wyandottes

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QUINCY POULTRY FARM A-2700 Maine St. QUINCY, ILL.

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Eggs for hatching from Chicago and Illinois State Fair Winners. Mating list free.

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Farm For Sale

POUULTY FARM consisting of 28 acres, with four large laying houses, each 400 ft. long, incubator cellar and feed storage building 135 ft. long, equipped with Candee Incubator of 29,400 capacity, brooder house 235 ft. long, containing 100 hovers, also 50 colony houses, size 8 x 10 and 8 ft. high. Buildings and equipment but two years old. Two-story modern dwelling, also 700 fruit trees.

Breeding stock consisting of 4000 hens, 400 males and 7000 young stock. Located three miles from city of 60,000 population on stone road, and electric cars pass the farm. *Make us an offer.*

Lily White Poultry Farm
Saginaw, Michigan

my neck, while he broke most of the ten commandments in the meantime—but he is a good fellow just the same.

This spring I bought more eggs, both matings, from the same breeder I got the stock from last year. I am building another breeding house, 50x14 ft., and divided into eight pens, each to accommodate from five to twelve birds. I have found by experience that it pays to have the best in stock, equipment and food. The best is none too good for me or my birds.

A BOY'S PROFITS WITH POULTRY.

Second Prize Article in American Poultry Journal Monthly Contest.

By H. J. BOROWSKY, JR., Cleveland, O.

IT MAY be of interest to poultry readers to know how one may accidentally drop into a business that he had never thought of being interested in previously. Four years ago, my father, a pipe fitter, was working in the gas fields of Cleveland. One day he found a chicken entangled in a thorn bush, and seeing that it was helpless, took it out and brought it home. I was then eleven years of age.

My father wanted to kill the chicken and eat it, but I begged him to let me have it and he did so. The chicken was a mongrel, but I did not care about that—it looked good to me. It immediately interested me in poultry. One week later I bought three Single Comb White Leghorn pullets and a beautiful male bird with my allowance which I had been saving. After I had bought the birds, tho I had not thought of it before, I was surprised to see what a nice place we had to raise chicks; a long lot with southerly exposure, a number of beautiful peach, apple and pear trees and a good gravel soil.

I bought two piano boxes for fifty cents and a roll of tar paper for two dollars, from which I made a fine colony house for my flock. The pullets began to lay at an early age, one of them at five months and twenty-seven days. A month later all of them were laying. Two eggs was the least I received any day from my four pullets.

I did not know anything about poultry keeping, so I bought the AMERICAN POULTRY JOURNAL every month at the news stand and studied it carefully. The four pullets laid 695 eggs the first year—enough to keep us supplied with fresh eggs. I made \$12 on my little flock that year.

During the first few months of the second year the pullets laid well. The mongrel became broody and I set her, receiving ten chicks from thirteen eggs. I was not satisfied with so small a number of chicks, so I bought twenty more, but six of these died. That left me two dozen chicks. I made two houses from some old dry goods boxes which I got from a local store and housed the chicks in them.

In the fall when the young stock began laying, I killed off the yearling hens. The young birds proved to be good layers as well as very beautiful. I trapped them from the first and one of them laid 224 eggs, which I consider a pretty good record. During the year, the flock laid 4,200 eggs, certainly a very good average for a beginner in poultry keeping. The food cost forty dollars

and I received \$66 for my labor that year.

After that I found that I was very much interested in poultry, my flock having brought me in \$78 the first two years, so I bought an incubator and a hover. The incubator is a good one, as I had read it did not pay to buy too cheap a one. The hover was home made. The incubator was sixty-egg capacity, but after I had run thru three or four hatches, I had no more room to raise the chicks on our lot. I kept on hatching and began to sell chicks.

I sold 265 at twelve cents each, having kept all I had room for. I built a larger poultry house and extended the yard. The house is 12x25 ft. with a scratch pen underneath it. It is divided into two pens.

I killed off twelve of the old hens for table use and they were extra fine eating. We saved the feathers and cured them for pillows. For the year's work, I had taken in \$103.44 and my interest in poultry was on the increase.

I began the fourth year with 72 hens, having killed off all that were not suitable for breeding or keeping thru the winter. My flock laid well and the neighbors were my customers during the fall and winter and in the spring I sold a great many eggs for hatching. I also hatched chicks and sold them for thirteen cents each. At the end of the season I found I had sold 450 chicks at this price and had reared as many for myself as I had room for.

I have kept an account during all this time and I find that I have paid out for my poultry \$212.25 and have received from them \$312.54. In addition to this they have been a source of great pleasure to me and I have found poultry keeping to be a fine employment. I think other boys would do well to engage in it.

Orchard Farm Reds

Before buying R. I. Red eggs for hatching, write for our mating list.

Orchard Farm, Noroton Heights, Conn.

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First prize winners at Wis. State Fair and Milwaukee Natl. Show. Fine prize winning trio S. C. W. Leghorns for sale. Write for prices on stock and eggs. Try us.

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Satisfaction guaranteed

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R. C. W. LEGHORNS. Winners at Nat'l Shows Chicago Coliseum, Milwaukee, Minneapolis, Duluth and many others. At Milwaukee 5 1sts; 3 2ds; 3 3ds. in competition with World's Fair winners Eggs for: hatching and day-old chicks.
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THIS MONTH

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BLUE RIBBON FEEDS

Growing Mash
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Make your chicks grow rapidly and feather evenly. Send for our Poultry Feeding Book.

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Leghorn cockerels for sale at \$1.00, from heavy laying lines. Mention American Poultry Journal. GEO. P. SANFORD, State Rd., Wheaton, Ill.

Barron 254-Egg Strain Cockerels

from Tom Barron Champion S. C. W. Leghorns imported by me. Must make room for my pullets. 50 cents added each month after October first.

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Strongest and best; 10 colors. For Pigeons, 25-20c; 50-35c; 100-50c. Chicken sizes, 25-25c; 50-45c; 100-70c; 250-\$1.50; 500-\$2.75; 1000-\$5.00.

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Sample for 2c stamp
M. BAYERDORFFER, Huguenot Park, New York

Perry's Rose Comb

White Leghorns

win best display at National Club Meeting, Rochester, 1916. Bred fourteen years for eggs and beauty. Grand males, also pairs and pens mated for results at very low prices. Free circular.

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Prize layers, show winners. Bargain foundation stock NOW.

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for 1916, telling how a Mich. hired man now works for himself breeding PR squabs and selling for \$5 doz., how an Ind. man sold 4652 PR squabs for \$1265 in 1915 and cured himself of desire to leave the farm, how a S. C. man ships PR squabs 125 miles to city hotel by parcel post at \$4.25 doz., how another earned one thousand dollars with PR stock from start with only one pair, how a Texas judge bred 8 pigeons until they amounted to a flock of 164 in one year, how a Vermont bred 25 pairs to 800 pairs in two years. You can do the same. More money-making experiences. Write today for this big free book. How to get six dollars a dozen, how to start small and grow big. We ship breeders everywhere, safe delivery guaranteed. Read how one of our customers gets as high as \$8 a dozen for squabs in Pittsburgh and makes a net profit of ninety dollars a month. Note his selling methods. Reading matter which is alive with selling as well as breeding ideas. Squabs well sold are easily



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Keeps Water at Even Temperature All Year 'Round

Absolutely sanitary. Water cannot be polluted. Prevents disease. Saves work. Increases egg yield. Ira Franklin, Mgr., Farmers Grain Co., Atkinson, Illinois, says: "The

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Send for free illustrated catalogue, which tells you much you should know. Stock and eggs at all times. Mention A. P. J.

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Oat Sprouter \$2

For \$2.00 you can build the simplest, most efficient, easiest to operate and best oat-sprouter ever constructed. A boy can make one in an evening with no tools but saw and hammer. Thousands in successful operation. Plans with plain directions for building, 10c postpaid.

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Strong Day-Old Chicks, June 9c; July 8½c

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BARRED PLYMOUTH ROCKS

Eggs now one-half price; also the females in my four grand pens Coliseum winners. For prices and circular write G. A. WALKER POLO, ILL.

ORPINGTONS AND SUSSEX

of the highest quality. Eggs now half price. Stock for sale.

C. A. KEEFER MUSKEGON, MICH.

OUT OF THE EAST

By P. K. WHITE

When the July issue went to press, Mr. Stahmer and I were at Pittsburgh, intending to travel by auto as far East as Beverly Farms, Mass. On account of family affairs, Mr. Stahmer was recalled to Chicago and his trip East has been postponed until late this fall.

While in Pittsburgh we made a trip to Sharpsburg, Pa., to see the new Red Top Farm owned by John Spencer. If John keeps up his present gait he will have one of the best farms in that section of the country.

Otto J. Eberle is another Pittsburgh suburbanite who has recently acquired a new plant and is rapidly bringing same to completion.

Looks as if Cleveland will hold the record for attendance, for most everyone you can see, says, "I will meet you at Cleveland."

If you are in need of the services of a high class man with proven ability, let me hear from you, as I know two gentlemen with long successful records who are looking for positions.

Aurora, Ills., had four brutal murders some time ago. Police claim that three of them were caused by the publicity given the first one.

Rumor has it that Czar Baldwin will hold the next Pittsburgh show in the exposition building.

Answer inquiries promptly and with a typewriter. You will find that it will pay.

Time to prepare for the fall fairs. Keep your eye on those Southern fairs this year. There is going to be a "flock" of good ones and they are not "hard up" down there.

Exhibit at the big shows this year, you small breeders. You have all to gain and nothing to lose.

Just a suggestion. While attending a motion picture show recently, I witnessed a reel of pictures showing a duck farm located on Long Island, N. Y. It was a series of wonderful pictures and is without doubt, a good boost for the poultry industry. Now, if Bro. Cleveland and Atherton will get busy and make arrangements with some film company to take pictures of the show room, winners, etc., of their coming shows, I am sure it will be a great help to their shows and the industry in general.

Most water is pure. Stirring up the dirty might make the clear the same way.

There are a larger number of fairs scheduled for the fall than ever before. Get busy and start a little heavier advertising, the returns will more than justify the expense.



WORLD'S BEST GAME fighting fowls. Wonderful layers. Very beautiful. Healthy hustlers. Gamey flavored meat. Illustrated circular free. Alfred F. Graham, Moultrie, Ga. 8-16-1yr

CHAMPION LEG BAND



Aluminum, numbered to suit, with large raised figures. Postpaid 100-60c, 50-35c, 25-20c, 12-15c. Initials extra, 10c per letter per 100; 50 or less 5c. More than one initial with cut figures. Circular free, giving price on Small Chick, Superior, Riveted and Pigeon Bands. Sample for stamp.

T. CADWALLADER, Box 1652, SALEM, OHIO

The home of

Heavy Laying LEGHORNS

BRED to "Shell Out" Eggs, in Winter, and do it.

One flock of 200 paid us \$5.62 each per year. You can do as well.

Guaranteed fertile hatching eggs and stock at let-live prices. Illustrated catalog. Write.

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"always tell the truth." Always found in the best incubators. Insist that your new machine be thus equipped and put *free* in your old ones, too. Price 75c each, at your dealers or from us, postpaid. Send for free booklet, "Thermometer Facts Worth Knowing." 100 Ames St. Rochester, N. Y.

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70 EGG INCUBATOR \$5.50 FREIGHT PAID

Here's the best incubator offer on the best incubator. Guaranteed to hatch equal to any \$15.00 machine.

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1916 RELIANCE Incubator
Best built - double walls, hot water heat, copper tank. Full equipment - lamp, regulator, thermometer, etc. Freight Paid. Order today on Satisfaction or Money Back Guarantee - or write for literature. We make Brooders, too. RELIANCE INCUBATOR CO. Box 50 FREEPORT, ILL.

Silver Penciled Wyandottes

Eggs for hatching from Chicago winners. Stock for sale. Write today.

AUG. BLOESE Chicago, Ill.

EGGS FOR HATCHING

S. C. W. Leghorns, Light Brahmas and Barred Rocks. Real quality throughout. Send for catalog.

W. H. WARD, Nickerson, Kansas

S. C. Rhode Island Red Eggs

From Chicago Winners, \$5.00 per 15.
Half price after May 15.

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RED SUSSEX EGGS HALF PRICE

Single setting rate May 1. Write for mating list.

W. F. FRASE
Route 21 East Akron, Ohio

Barred Plymouth Rocks

Eggs for hatching from both matings, \$5 per 15. Satisfaction guaranteed.

CARTER'S POULTRY FARM,
Jonesdale, Wis.

Barred Rocks - At Boston, 1916, we entered 2 birds and won 1st PULLEY, also 4th Pulley bred cockerel. This wonderful win, and there were 10 exhibitors. Stock and eggs, just like these winners. Bear Brook Poultry Farm Wakefield, Mass.

Almendinger's Rose Comb Wht. Leghorns

Won at Buffalo, the past 5 yrs., 4 firsts and 3 seconds on cks., 3 firsts and 3 seconds on pils., and all firsts on hens. Choice birds, or eggs for hatching. A. F. ALMENDINGER, 180 E. Delavan Av., Buffalo, New York

WHITE PLYMOUTH ROCKS

I have some very fine show birds for sale at reasonable prices. If you want good breeders I furnish them. Hatching eggs, \$3 and \$5 per fifteen.

WALTER P. NELSON

Route 21 Bayonne, New Jersey

B. H. SCRANTON

S. C. R. I. Reds RISING SUN, INDIANA

SINGLE COMB ANCONAS

Winners of 12 blue ribbons at Chicago Coliseum.

Big Reduction on Eggs after June 1st.

Cora B. Garbutt Box 146 Darien, Wisconsin

Andrews' White Wyandottes

Win Four First Prizes, Boston, 1916. Eggs from all matings half-price. Catalog free.

J. W. ANDREWS Box A DIGHTON, MASS.

Rudy's Perfection White Wyandottes

My strain is noted for its egg production and exhibition qualities. My customers all over the country laud my square deal business methods. I guarantee to give you extra good value for every dollar you pay me and if you are in the market for line bred birds I will be glad to tell you just what I have for sale.

GEO. H. RUDY

Route 15 Mattoon, Illinois



ATHERTON'S FAMOUS SILKIES

The REAL Birds

EGGS \$6.00 per setting; two settings, \$10.00.

Single Birds, \$5.00 to \$25.00

W. B. ATHERTON

Randolph - Massachusetts

Get This Book
—it leaves nothing to chance or guesswork. Tells positively how to start pullets laying in Sept. & Oct.—How to Get More Eggs in Winter—Fattening Pullets—How Breeders Get Fertile Eggs—Mating, Forcing, Feeding, etc. "Feeding Secrets of Famous Poultrymen" is sent complimentary by manufacturers of **Darling's Meat Crisps**—a highly concentrated, sanitary poultry feed. To get book, address **DARLING & COMPANY, Dept. 9, U. S. Yards, CHICAGO**



SILVER and GOLDEN CAMPINES

The Egg and Money Makers

Eggs for hatching—that will hatch—from the grandest birds that are properly mated for best results. Bulletin of facts free. My book "Campineology" de luxe and two-colored plates, 10c.

J. FRED N. KENNEDY

Box F Birch Cliff, Ont., Can.

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Exhibition Birds That Win! { **S. C. WHITE LEGHORNS** } Utility Birds That Lay!

Write for catalog and mating list.

Tenacre Poultry Farm

R. F. D. No. 3 - PRINCETON, N. J.

Ives' Langshans

WHITE—BLACK

Champions of record for many years. Consistent winners at New York and Boston. Bargains in breeding stock NOW.

IVES, IVES & IVES GUILFORD, CONN.

HAYWARD'S

White Plym. Rocks

WINNERS AT BOSTON, 1916.

Write for Prices and Particulars.

W. F. HAYWARD WESTBORO, MASS

Sears' Barred Plymouth Rocks

Are sure winners. Breeders for sale now.

Howard O. Sears, L. Box 6, Garden Prairie, Ill.

A. C. WILLIAMS, Ravenna, Ohio

Speckled Sussex and Buff Orpingtons

WHITE WYANDOTTES

If you want real bargains in prime stock or eggs write **CHAS. NIXON**

Box 202 Washington, N. J.

S. C. White Leghorns

won 2nd cockerel, 3rd and 4th pullets at Indianapolis; 1st and 4th cockerels, 1st and 3rd pullets, at Fort Wayne, Ind. Mating list. No stock for sale.

JOSEPH MAZELIN - Berne, Ind.

SEEN AND HEARD IN THE MID-WEST

SHEPARD STRONG

Study carefully the ads in this month's issue. There are some exceptional bargains in choice breeding stock. Poultry breeders desire to make room for the growing stock, so avail yourself of the unusual values offered.

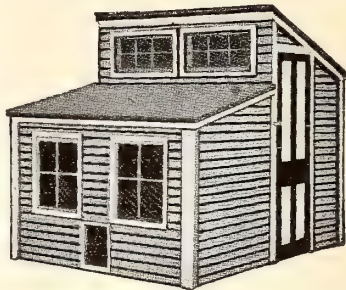
The premium lists of the fairs have started to come in. We find the poultry departments of many of them to be complete and offering every reasonable inducement to the prospective exhibitor. In fact, they are the last word in all that goes to make up a first class show list. However, I am sorry to state that such prize lists are in the minority, the greater portion of them being with the poultry most shamefully misrepresented and this in fairs representing some of the most populous counties in the United States. The following is a typical illustration: The classification is incomplete, the prize money is paltry in proportion to the amounts offered in the other departments and about everything is wrong that could well be imagined; doubtless, the poultry list hasn't been changed since ten years ago, when "old Si Whiskers," who was then superintendent, was its author. Now, whose fault is that? It is your fault, Mr. Poultryman, if you live in a community where such conditions are allowed to exist. Do you think the livestock breeders would allow his interests to be so slighted? No, you will find that he has guarded against that and is the owner of a small or large amount of capital stock of the fair company, so that he has a voice in its policies. What do you do, Mr. Poultryman? You sit back and say you wouldn't wipe your feet on the old fair (I have heard you say so on many occasions) and just let things go on in the same old way. I want you to think about what I am trying to impress on you when you go to the county fair this year and spend a few minutes looking at the miserable *misrepresentation of poultry*. You'll soon hurry away in disgust and at the same time have a pleasing thought of how fine your birds are going to look when you show them at Madison Square Garden or else at your local winter show, to which latter you always consider it your bounden duty, as a loyal fancier, to give your utmost support, both moral and financial. But the fair, which as an institution should be as much the cradle of the fancy poultry business as the winter show; the fair, thru which (if you only knew it) a good proportion of your customers have first become interested in poultry; the fair—well, might as well be in the bottom of the ocean, that for all you are concerned. If you would but realize it, the Board of Managers of your own local fair would be only too glad to have you interest yourself in its councils, so as to make its poultry show also one of the good ones instead of the disgrace that it now is.

Mr. Poultryman, wake up!
A. A. Carver, the progressive Rhode Island Red and Sussex breeder of Selville, Ohio, has recently completed a new breeding house about one hundred feet long. Our congratulations are extended to Mr. Carver on this substantial increase to his plant.

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Perfection Portable Poultry Houses

Have Solved the Housing Problem



Thousands of Poultry Raisers have become successful thru the use of these houses.

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Perfection Portable Poultry House Co.

1730 North Tripp Avenue, - CHICAGO

(In no way connected with any other Co.)

We'll Send You a Free Sample Before You Buy

We want to prove to you that you can stop your losses from **Roupe, Bronchial Trouble, Head Lice, Canker, Gapes, and Black Head** by using

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Also for Eczema, Wounds, Galds and Mange

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Just send us your name and address and enclose 10c to cover postage and packing and we will mail you at once the sample, also a VALUABLE FEEDING CHART AND EGG RECORD.

Write Today.

THE SMITH SPECIALTY CO.

335 Bird Bldg. Mansfield, Ohio

CHAMPION

Rhode Island Reds

won 1st Hen and 4th Cockerel at Greater Chicago Show, January, 1916, only three birds entered. Eight 1st Prizes, three 2nd, two 4th and one 5th prizes at Hammond, 1915 and 1916.

Young and Old Stock For Sale.

FRANK JOHNSON, 220 W. 110th St., Chicago

Idealize YOUR Flock. Wellcome's Famous "Ideal" TRAP NEST

Shows which hen laid the egg. Highest efficiency, least attention, lowest net cost. Write NOW for prices and proof.

F. O. WELLCOME, Box J, YARMOUTH, ME.



RAISE BELGIAN HARES FOR US.

Big money, stock costs a trifle and we buy all you raise at \$2.00 each; also Cavies, Mink, Skunk, Fox, Squabs, Pheasants, Frogs, etc. Contract, instruction book, etc., for dime, none Free. A few chances left. Address The Belgain Hare, Box 16, Holmes Park, Mo.

Associations and Shows

Secretaries are Requested to Send in News Items of Interest About Their Shows for This Department

TRI-STATE FAIR.

The Memphis Tri-State Poultry Association announces the dates of its ninth annual exhibition as September 24th to 30th, 1916.

This show is held each year at Memphis, Tenn., in connection with the Tri-State Fair of Tennessee, Mississippi and Arkansas. Year by year the size and quality of the exhibit has increased as breeders are attracted by the liberal cash prizes and large specials. Through its policy of honesty and fair dealings and "cash for prizes" the Memphis Show now takes rank with the most stable and successful shows of the country.

The 1916 premium list will offer Four Thousand Dollars in regular and Special CASH PRIZES with competition open to the World. Heading the show will be the two important Specials—"The Open Sweepstakes" for the largest and best display, one breed and variety and a similar special; "The Southern States Sweepstakes," open to the breeders in the eleven Southern states.

The judges secured to date are: E. C. Branch, Lees Summit, Mo.; Chas. McClave, New London, Ohio, and J. C. Johnston, Springfield, Ill. These men have judged at most of the important shows from the Atlantic seaboard to San Francisco and their engagement at Memphis stamps the Tri-State Poultry Show as one of national importance.

The full and comprehensive premium list is now on the press and same, with full particulars, will be sent on request to C. G. Boyer, secretary-treasurer, 33 Porter Building, Memphis, Tenn.

OF INTEREST TO BANTAM BREEDERS.

Mr. Edward Joynson, Bridgeton, Mo., manager of the Henderson Barred Rock Poultry farm, and one of the best known experts in the country, will judge all varieties of Bantams at the Coliseum Show, December 13th to 18th, 1916.

Mr. Joynson is an old Bantam breeder from England, familiar with all varieties, and should be one of the strongest drawing cards in this class.

Mr. W. W. Henderson offers a \$25.00 cup for best display of Bantams, all varieties to count.

R. A. McKinney, president Mid-West Bantam Association, offers a \$10.00 cup for best ten Cochins Bantams by one exhibitor, and \$10.00 for best clean legged Bantams by one exhibitor.

Don't forget to register for premium list, which will be ready November 1st.

Theo. Hewes, Secretary,
Indianapolis, Ind.

State Fairs for 1916

Name of Fair	Place	Date	Secretary
Alabama State Fair	Birmingham	Oct. 5-14	F. H. Fowlkes
Am. Royal Live Stock Show	Kansas City, Mo.	Oct. 2-7	W. H. Weer
Alabama State Exposition	Montgomery	Oct. 23-28	Geo. T. Barnes
Arkansas State Fair	Hot Springs	Sept. 2-9	Chas. W. Paine
California State Fair	Sacramento	Sept. 2-9	Chas. W. Paine
Calgary Indus. Exhibition Co.	Calgary, Alta.	June 29-July 5	E. L. Richardson
Canadian Industrial Ex.	Winnipeg	No exhibition will be held in 1916	
Forest City Fair	No. Randall, O.	No fair will be held in 1916	
Georgia State Fair	Macon	Nov. 2-11	Harry G. Robert
Gem State Fair	Boise City, Idaho	Sept. 25-30	O. P. Hendershot
Illinois State Fair	Springfield	Sept. 15-23	B. M. Davison
Indiana State Fair	Indianapolis	Sept. 4-8	Chas. Downing
Iowa State Fair	Des Moines	Aug. 23-Sept. 1	A. R. Corey
Interstate Live Stock Fair	Sioux City, Ia.	Sept. 18-23	Joe Morton
Interstate Fair Ass'n.	St. Joseph, Mo.	No fair will be held in 1916	
Kansas State Fair	Trenton, N. J.	Sept. 25-29	M. R. Margerum
Kansas State Fair Ass'n.	Hutchinson	Sept. 16-23	A. L. Sponsler
Kentucky State Fair	Topeka	Sept. 11-16	Phil Eastman
Kankakee Interstate Fair	Louisville	Sept. 11-16	W. J. Gooch
Louisiana State Fair	Kankakee, Ill.	Sept. 4-9	Len Small
Minnesota State Fair	Shreveport	Nov. 1-6	L. N. Brueggerhoff
Michigan State Fair	Hamline	Sept. 4-9	J. C. Simpson
Mississippi State Fair	Detroit	Sept. 4-13	G. W. Dickinson
Mississippi-Alabama Fair	Jackson	Oct. 23-28	Mable L. Stire
Missouri State Fair	Meridian, Miss.	Oct. 16-21	A. H. George
Montana State Fair	Sedalia	Sept. 23-30	E. T. Major
Memphis Tri-State Fair	Helena	Sept. 25-30	P. B. Snelson
Nat'l Western Stock Show	Memphis, Tenn.	Sept. 24-Oct. 3	Frank D. Fuller
Nat'l Feeders and Breeders Show	Denver, Colo.	Jan. 20-27, 1917	Fred P. Johnson
Nebraska State Fair	Ft. Worth, Texas	March 13-18	Ed. R. Henry
New York State Fair	Lincoln	Sept. 4-9	W. R. Mellor
New State Fair	Syracuse	Sept. 11-16	Albert E. Brown
Northwestern Live Stock Ass'n.	Muskogee, Okla.	No Show will be held in 1916	
Ohio State Fair	So. St. Paul, Minn.	Aug. 28-Sept. 1	G. A. Stauffer
Oklahoma State Fair	Columbus	Sept. 23-30	I. S. Mahan
Oregon State Fair	Oklahoma City	Sept. 25-30	A. H. Lea
Pacific International Live Stock Exp.	Salem	No. Portland, Ore.	
Quebec Provincial Exposition	No. Portland, Ore.	Aug. 28-Sept. 2	Georges Morrisset
Rochester Exposition	Quebec, Canada	Sept. 4-9	Edgar F. Edwards
Spokane Interstate Fair	Rochester, N. Y.	Sept. 4-9	Edith Jones
South Dakota State Fair	Spokane, Wash.	Sept. 11-15	C. N. McIlvaine
South Texas Fair Ass'n.	Huron	Nov. 10-18	C. R. Bone
State Fair of Texas	Beaumont	Oct. 14-29	W. H. Stratton
St. Louis Agrl. Fair	Dallas	Oct. 2-7	John T. Stinson
Southeastern Fair Ass'n.	St. Louis, Mo.	Oct. 14-21	R. M. Striplin
Tennessee State Fair	Atlanta, Ga.	Sept. 18-23	J. W. Russwurm
Texas Cotton Palace Ass'n.	Nashville	Nov. 4-19	S. N. Mayfield
Utah State Fair	Waco	Oct. 2-7	Horace S. Ensign
Vermont State Fair	Salt Lake City	Sept. 12-15	F. L. Davis
Vancouver Exposition Ass'n.	White River Jct.	Aug. 14-19	H. S. Rolston
Wisconsin State Fair	Vancouver, B. C.	Sept. 11-15	O. E. Remy
Wyoming State Fair	Milwaukee	Sept. 26-30	A. Highby

KORNMAN'S CAFE AND BUFFET LUNCH

Finest Cafe in Middle-West

EUCLID AVENUE AND EAST SIXTH STREET

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Learn The Secrets of Heavy Egg Yields The Whole Year Round!

Three Year-'Round Layers

Their 12-month trap-nest records are: White Leghorn, 251 eggs; Barred Plymouth Rock, 236 eggs; White Wyandotte, 237 eggs.

These hens show the results that can be achieved by the "Cyphers Way."

GET in touch with the facts proved out by the experiences and experiments tried out on Cyphers' \$85,000 Poultry Farm! Our "Foods and Feeding" and "The Profits in Poultry Keeping" are literally packed with money-making, labor-saving, poultry-saving facts, proven methods of increasing yields and fattening market poultry faster—everything the poultry raiser needs to know or to have to succeed big in the poultry business. Write today for these two books. Learn how easily you can increase the egg yield from your fowls. Ask for current low prices on Poultry Foods.

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**POULTRY FOODS
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BLACK ORPINGTON CLUB TO MEET AT THE COLISEUM, CHICAGO

The annual meeting of the American Black Orpington Club will be held in connection with the Coliseum Show Dec. 13th to 18th. More than \$100.00 in cash prizes, in addition to the Club specials, will be offered upon this variety. The class will be divided between Mr. C. S. Byers, Hazelrigg, Indiana, and Leonard Rawnsley, Columbus, Ohio. Those who have not registered for premium list will

please send their names to the Secretary, Mr. Theo. Hewes, 25 W. Washington St., Indianapolis, Ind.

NEW JERSEY STATE SHOW

Elizabeth, has been selected as the city to hold the state show and judging by the bunch of hustlers on the show committee, it will be a real show. Dates are Nov. 28-Dec. 3. A. J. Churchill, Secy.

A feature of the show to be held by West-

ern Ills. Fanciers' Assn., at Savanna, Ill., Dec. 6-10, will be the illustrated lectures every night. For further details write, E. A. Stouvenel, Secy.

ROSE COMB BARRED ROCK CLUB

Mr. L. T. Robinson, of Union City, Mich., has been appointed Secy.-Treas. of the American Rose Comb Barred Rock Club. A temporary breed Standard is soon to be issued for this new variety and all fanciers interested in this new Barred Rock are requested to join the club.

PEORIA DISTRICT FAIR

Peoria, Ill., will hold its first annual, District Fair Sept. 26th-Oct. 7. They are offering \$2,000.00 in premiums and judging from the gentlemen who are behind the movement, it is sure to be a success. For premium list, write W. O. Ireland, Sec., Peoria District Fair, Peoria, Ill.

NATIONAL BLACK LANGSHAN CLUB

On account of rearrangement of mail routes, the address of the secretary of above club has been changed to Indianapolis. Indications point to a good year in this variety and anyone interested in the club should write, H. A. Reasner, R. F. D., H-2, Box 283, Indianapolis, Ind.

It is a proven fact

that the small man and the big man take equal chances. Because you are not at present a well known breeder is no reason why you should not go in and win at

The Palace Show

even if you do not win it would be well worth your while to meet the breeders and buyers who are always looking for new men with interesting propositions. Think over well what you have to offer—

New York City

may make your reputation one to be envied thruout the trade. From a man only locally known, you can gain thru one exhibit a national reputation.

DECEMBER 5-9

However busy you may be, this is too important to miss. You cannot risk some one else getting the business that you want.

Entries Close November 20th

We have never failed to be of service—try us

EMPIRE POULTRY ASSOCIATION

Robert Seaman, Pres. MINEOLA, N. Y. L. D. Howell, Sec'y

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*The best to eat; the best service;
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A GOOD PLACE TO EAT

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Eating and Sleeping

YOU measure a hotel by its rooms and its table. For twenty-six years the Hollenden has been nationally known for its excellence on these two points. And the service is just as good as the accommodations.

Absolutely Fireproof Modern in Every Sense

Rooms with bath . . . \$2.00 to \$5.00
For two persons . . . \$3.00 to \$6.00
With twin beds . . . \$4.00 to \$6.00

Suites at various prices.

*The Hollenden
Cleveland*

Speckled Sussex

I will have cockerels and pullets fully matured and in show condition any time after July. Also have some stock to sell bred from first prize pullet, at Quincy, that has laid 150 eggs in 159 days.

CHAS. A. SIMMONDS

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UNDER this heading ads will be inserted for seven cents per word each month for less than three months, and six cents per word each insertion for three months or longer. Changes in copy allowed every three months. Numbers and initials count as words. All ads will be inserted under classified headings. No ads accepted at less than an average of sixty cents per insertion. Terms, cash with each ad. Count the words carefully to avoid delay in publishing. Write your copy plainly, as upon this the correctness of your ad largely depends. When placing your ads remember that advertisers using Classified Ads get better returns from AMERICAN POULTRY JOURNAL than from any other poultry journal—none excepted. On writing any of these advertisers mention AMERICAN POULTRY JOURNAL. All copy for Classified Ads must reach us by the 17th of month preceding date of issue.

ANCONAS.

ANCONAS FOR SALE—500 head of extraordinary good dark yearling single comb, mottled Ancona hens at \$13.00 per dozen. 2 dozen, \$25.00. Good in size, comb, and type; grand egg producers, all in very best of flesh and fine healthy condition. Geo. C. Schwegman, Richmond, Indiana. 8-10

FOR SALE—60 Single Comb Anconas, three months old, mostly pullets, all good birds. \$20. takes the lot. S. P. Henderson, Goreville, Ill. 8

SHEPPARD'S WORLD renowned Anconas, the birds that all Anconas are judged by. See display ad inside front cover. H. Cecil Sheppard, Box M2, Berea, Ohio. 11-15 1 yr

BANTAMS.

ALL MY 1916 BREEDING Stock of Bantams for sale. Buff, Black and White Cochins, B. B. Red Game Duckwing and Red Eyle White Crested, White and White Crested Black Polish Bantams (bred mostly from imported stock.) S. J. Carpenter, 73 Locust Ave., Worcester, Mass. 8

BLACK COCHIN BANTAMS exclusively. Winners at Indianapolis, Dayton, Bucyrus, Fostoria, Shelby, Delaware, Bowerston, etc. Illustrated catalog free. Satisfaction guaranteed. Walter Quaintance, 123 Sycamore St., Upper Sandusky, Ohio. 8-10

EXHIBITION JAPANESE Bantams — Black Tails, Blacks, Golden Sebrights, Black Cochins. Eggs, \$2.00 per setting. Satisfaction guaranteed. Hez. Kinter, Dillsburg, Pa. 7-9

AMERICA'S FINEST BANTAMS and large fowls. All Standard varieties. Catalog. F. C. Wilbert, Grand Rapids, Mich. 6-8

BANTAMS bring profit and pleasure. Our monthly tells how and why. Send 50c for a year's subscription or ten cents for a three months' trial. American Bantam Fancier, 933 Advertising Bldg., Chicago. 1-14-15

BANTAM SPECIALIST. Buff, Black, Partidge Cochins, Light and Dark Brahmas. I ship on approval. Circular free. Geo. C. Salmon, Port Dickinson, N. Y. 1-14-15

BUTTERCUPS.

BUTTERCUPS—SOME STOCK for sale, satisfaction guaranteed or money refunded. Bred to lay and win. Correspondence solicited. Wm. Freise, La Crosse, Wis. 8-10

GOLD COIN BUTTERCUPS. Winners at Chicago. Stock and eggs for sale. Booklet free. O. B. Disenroth, Lawrence, Mich. 7-9

CAMPINES.

SILVER CAMPINES. Grand birds reasonably priced. Rev. W. Berberich, Groton, New York. 11-15-16

CORNISH.

AT THE PALACE SHOW—Every first, second and third but one, with eight exhibitors showing sixty birds. White Cornish only. Catalog for stamp. Mountsville Farms, Mountville, Virginia. 2-16-17

DORKINGS.

WESTFALL'S CHAMPION DORKINGS. Exclusive breeder 27 years. More first prizes, silver cups and specials last 17 years than all competitors combined. Eggs reduced to \$2.00 per 15; \$3.50 per 30; from very best

females we own. Can spare several pens of birds fit for show or any other purpose, at reasonable prices. Watson Westfall, Sayre, Pa. 2-16-17

HAMBURGS.

SILVER SPANGLED HAMBURGS. Black Diamond strain. Highest honors at Madison Square and leading shows of America. Eggs, \$3.00 and \$5.00 per 15. If you want the best and birds that can win in any competition, you should order stock or eggs from Will L. Clark, Sullivan, Ohio. 3-16-17

HOUDANS.

HOUDANS. Proprietor all Peterson's. Also book. 20c. Eggs, stock. Dr. Wight, Bolster's Mills, Me. 11-13-14

S. C. WHITE LEGHORNS.

S. C. WHITE LEGHORNS. Young's strain, stock for sale. August W. Schroeder, St. Peter, Ill. 8

FINE THRIFTY APRIL pullets, Sept. 1st, \$1.00, Oct. 1st, \$1.15 each. Yearling hens, 75c. A. A. Pallady, Stamford, N. Y. 8-9

SINGLE COMB WHITE Leghorns. Best heavy laying strains. 400 April hatched pullets and cockerels at 75 cents each. Free range stock. B. A. Yeager, Wolcottville, Ind. 8

TOM BARRON'S ENGLISH Single Comb White Leghorn cockerels for sale. Bred from stock with high egg records for generations. Write for prices and description. Bear Den Poultry Farm, Wheeler, Ill. 8-10

TOM BARRON 254-EGG STRAIN cockerels, \$1.50 up. Must make room for my pullets. 50c added each month after Oct. 1. Cherrycroft Farm, Box 1125, Omaha, Neb., direct importer and breeder. 8-9

500 YEARLING HENS for sale. S. C. White Leghorns. Choice stock of the best laying strains. Harry Palmer, Middleport, N. Y. 8

S. C. W. LEGHORN cockerels, Tom Barron strain. August orders, 75c. Ella Brown, R. 2, Nottingham, Pa. 8

YOUNG'S STRAIN SINGLE Comb White Leghorns, grand low-tailed cockerels, \$2.00 each. Meadow Farm, Coulterville, Ills. 8

SINGLE COMB WHITE Leghorns, Young's strain, direct, chalk white (no brass) heavy record winter layers. 800 yearling breeders, \$1. each; also cockerels. Hedgewood Farm, Tiffin, Ohio. 8-10

WYCKOFF COCKERELS FROM our 260-egg strain. The kind we sell for \$3.00 and \$5.00 in the spring. 50 cents and \$1.00 each now. Cockerels three and four months old. Yearling hens, \$1.50 and \$2.00. Eggs, \$1.00 per 15. Brookwood Poultry Farm, Cary Station, Ill. 7-8

24 EGGS \$1.00. Blanchard-Wyckoff Single Comb White Leghorns. 100 chicks \$8.50. Hens, cocks, cockerels. Send for circular. W. Albers, Lombard, Ill. 7-9

PULLETS! HENS! Cockerels! Welday's celebrated English-American S. C. White Leghorns. World's leading layers. Big catalog. Welday, Seville, Ohio. 7-9

S. C. WHITE LEGHORNS. Young strain. 500 yearling hens, 1000 April hatched pullets. Prices reasonable. Satisfaction guaranteed. Miller Poultry Farm, Box T, Lancaster, Mo. 7-9

2000 PULLETS AND COCKERELS. White Leghorns; Young and Tom Barron strains. Order now for fall delivery. Also several hundred yearling hens, in fine shape, for sale. Write for pamphlet. Blue Mountain Poultry Farm, P. O. Columbia, N. J. 7-9

HAWKEYE SINGLE Comb White Leghorn Farm, Oskaloosa, Iowa, has 1500 pullets, 800 yearling hens. This stock has been bred for the past 10 years for egg production. 75 cents to \$1.00 each. W. L. Woodrow. 7-9

PULLETS, YEARLING HENS, any number. Wyckoff Single Comb White Leghorns. 25 years in this business. Hundreds of customers, largest plants say I furnish greatest layers possible. Circulars, low prices, full information. C. N. Reynolds, Canton, Pa. 7-10

ALBA FARM SINGLE Comb White Leghorns. Special values in breeding stock and eggs at reduced prices. J. H. Leffler, Jamestown, Pa., R. 40. 7-9

WHITE LEGHORN YEARLING pullets, \$1.25 and \$1.50 each. Exceptional quality. Early hatched cockerels \$1 each. Satisfaction guaranteed. Woodford Poultry Farm, Route 10, Cincinnati. 6-8

QUALITY FARM S. C. W. Leghorns. Stock and eggs. Satisfaction guaranteed. Circular. Clarence E. Chamberlin, South Windham, Conn. 3-8

BROSSEAU'S TRAPNESTED Leghorns produce the eggs in winter. Pullets, cockerels, breeding stock. Brosseau Poultry Farm, West Chicago, Ill. 6-8

\$1.00 EACH—SINGLE COMB WHITE Leghorns, pullets and cockerels, yearlings and cocks. Shipped anywhere. As many as desired. Write for catalogue. Woodworth Farm, Wilton, Conn. 8-10

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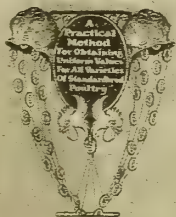
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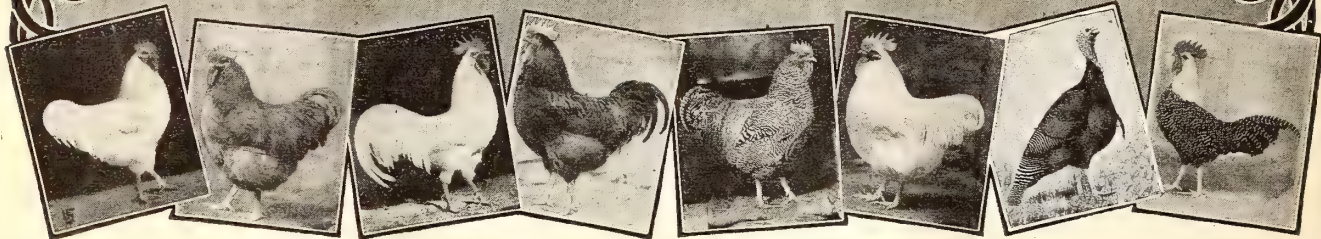
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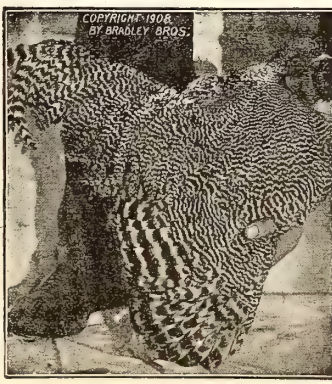
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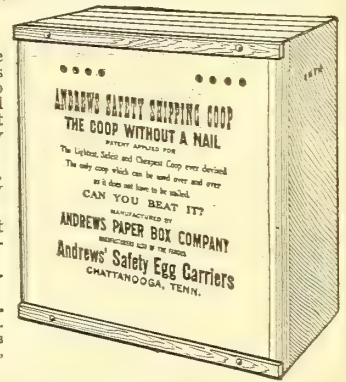
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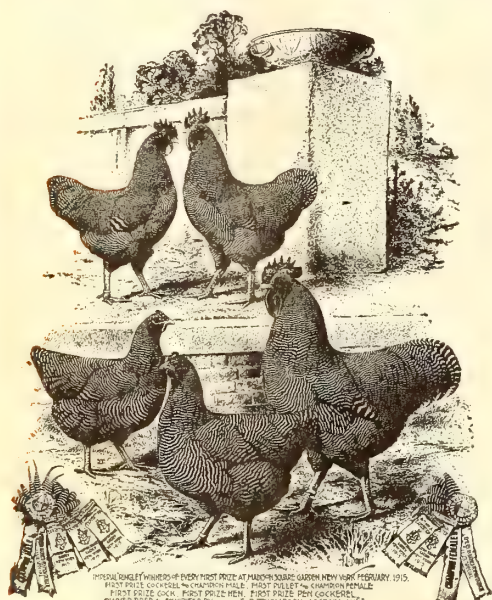
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VOL. 47, NO. 9

SEPTEMBER, 1916

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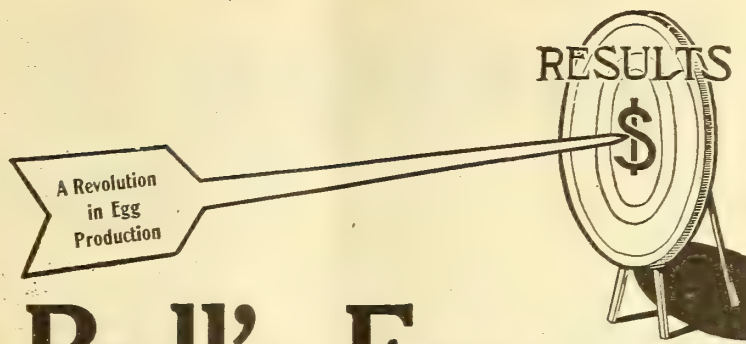
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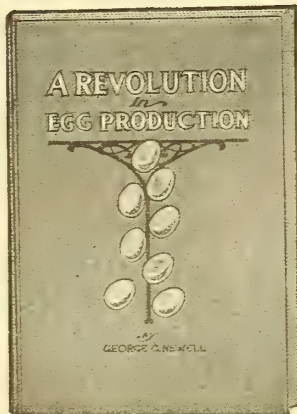
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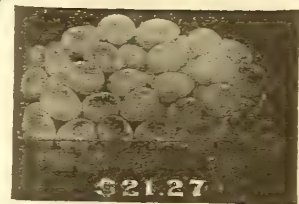
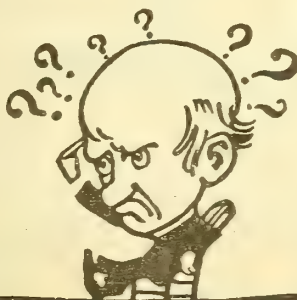
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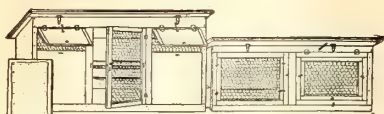
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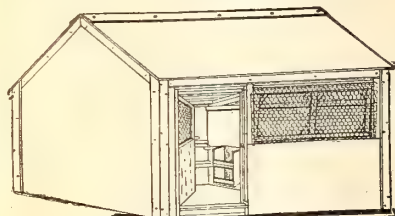
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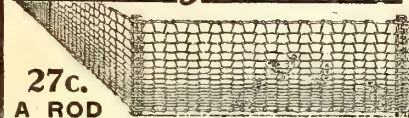
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TABLE OF CONTENTS

	PAGE
ARTHUR G. DUSTON—PIONEER POULTRYMAN	1049
WHAT UNCLE SAM IS DOING FOR POULTRY.....	Prince T. Woods, M. D. 1050
THE SURVIVAL OF THE FITTEST.....	Chas. A. Simmonds 1054
AMERICAN POULTRY ASSOCIATION CONVENTION.....	Prince T. Woods, M. D. 1056
EDITORIAL	1058
Comparative Standard—American Poultry Association Reorganization—Using Advertising—Individuality—A New Article Contest—Fresh Air—A. A. Peters for American Poultry Association President—Poultry Publishers' Association—Our Cover.	
DR. WOODS' NOTES AND COMMENT.....	1063
HORTICULTURE FOR POULTRY KEEPERS.....	Thos. F. Rigg 1067
QUESTIONS AND ANSWERS.....	1072
READERS EXPERIENCE DEPARTMENT.....	1084
MONTHLY PRIZE CONTEST DEPARTMENT.....	1090
RESULT OF POULTRYMAN'S SUIT AGAINST THE AMERICAN EXPRESS COMPANY.....	1092
HOME AND THE TABLE.....	Helen T. Woods 1094
HAPPENINGS OF INTEREST IN THE POULTRY WORLD.....	1095
RECENT INVENTIONS FOR POULTRYMEN.....	Lester L. Sargent 1096
INTERNATIONAL BABY CHICK ASSOCIATION.....	1097
POULTRY FANCIERS CLUB.....	1098
ASSOCIATIONS AND SHOWS.....	1099
SHOW DATES	1101

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Abbott, O. M., Whiteland, Ind.	1068	Darling & Co., Chicago, Ill.	1106	Keller, Ira C., Prospect, Ohio.	1089
Aldrich Poultry Farm, Columbus, O.	1064	Davis, M. C., Woodstock, Ill.	1066	Kennedy, J. Fred N., Birch Cliff, Can.	1082
Allen Co., S. L., Philadelphia, Pa.	1067	Dawdy & Dawdy, Greenville, Ill.	1080	Kitselman Bros., Muncie, Ind.	1044
Almendinger, A. F., Buffalo, N. Y.	1083	Deege, Grover, Quincy, Ill.	1068	Klein-Lambert Co., Chicago, Ill.	1044
Alum. Marker Works, Pennsylvania.	1068	Deem's Buckeye Yards, Eaton, Ohio.	1095	Kulp, W. W., Pottstown, Pa.	1068
Am. Poultry Advocate, Syracuse, N. Y.	1076	Demberger, L. J., Stewartsville, Ind.	1080	Lakewood Farms, Holland, Mich.	1099
American Poultry Journal, Chicago, Ill.	1043-1045-1047-1098	Des Moines Inc. Co., Des Moines, Iowa.	1091	Lange, J. G., Detroit, Mich.	1090
Am. School of Poul. Husbandry, Mo.	1093	Deyoe's, Dodgeville, Wis.	1091	Latham, C. H., Lancaster, Mass.	1072
Andrews, J. W., Dighton, Mass.	1073	Doerhoefer, Lewes P., Anchorage, Ky.	1066	Lee Co., Geo. H., Omaha, Neb.	1085
Andrews, S. H., Mineola, N. Y.	1101	Du Pont de Nemours & Co., Delaware.	1095	Lee, Leo A., Chicago, Ill.	1082
Andrews Co., O. B., Chattanooga, Tenn.	1081	Eakin, F. M., Bucyrus, Ohio.	1088	Leitner, C. H., Elgin, Ill.	1062
Applegate Poul. Farm, Delavan, Wis.	1088	Elec. Specialty Co., Salt Lake City, Utah.	1088	Licene Co., Chicago, Ill.	1088
Arcady Farm Milling Co., Rondout, Ill.	1076	Elliott Poultry Farm, Mansfield, Ohio.	1066	Liceoff Co., Green Bay, Wis.	1066
Astle, Milan C., Momenca, Ill.	1080	Empire Poultry Assn., Mineola, N. Y.	1100	Lily White Poul. Farm, Saginaw, Mich.	1082
Atherton, W. B., Randolph, Mass.	1095	Everfresh Egg Farm, Ionia, Mich.	1068	Lingeman, C., St. Louis, Mo.	1082
Atlas Company, Lincoln, N. J.	1086	Faha, Jr., Frank, Dyersville, Iowa.	1065	Lo-Glo Elec. Incubator Co., New York.	1078
Automatic Trap-Nest Co., Kenosha, Wis.	1066	Feich, I. K., Natick, Mass.	1044	Longfield Poultry Farm, Bluffton, Ind.	1065
Balch & Brown, Manchester, Conn.	1088	Fernbrook Farm, Albany, N. Y.	1078	Lord Farms, Methuen, Mass.	1076
Bales, J. S., Springfield, Ill.	1076	Ferris, P. J., Cuyahoga Falls, Ohio.	1070	McClave, Chas., New London, Ohio.	1090
Ball, W. J., Salem, Ohio.	1080	Fishel & Son, J. C., Hope, Ind.	1099	McConnell, J. V., Garden Grove, Cal.	1062
Banks, M. H., Dillsburg, Pa.	1078	Fishel, U. R., Hope, Ind.	1060	McConnell, W. A., Richmond, Ill.	1080
Barker, M. S., Thornton, Ind.	1068	Fogg, N. V., Mt. Sterling, Ky.	1086	Mackey Farms, Gilboa, N. Y.	1076
Bawden, John, Ridgetown, Ont., Can.	1093	Fourche Mountain Poul. Farm, Ark.	1073	Mahon, Elton C., Norwood, Tenn.	1088
Beach, Geo. Watson, New York City.	1088	Foxhurst Farm, Lime Rock, Conn.	1076	Mann Co., F. W., Milford, Mass.	1076
Bear Brook Poul. Farm, Massachusetts.	1068	Frantz, O. C., Rocky Ford, Colo.	1083	Marble Cliff Quarries Co., Columbus, O.	1093
Belgian Hare, Holmes Park, Mo.	1093	Frase, W. F., East Akron, Ohio.	1083	Martin, Mrs. E. B., Downey, Cal.	1073
Bella Vista Farm, Kimmiswick, Mo.	1076	French Co., R. T., Rochester, N. Y.	1091	Martin, John S., Port Dover, Ont., Can.	1062
Belle City Incubator Co., Racine, Wis.	1086	Friesner & Son, J. W., Bremen, Ohio.	1083	Martz & Son, A. E., Arcadia, Ind.	1060
Berberich, Rev. W., Groton, N. Y.	1091	Gamewell, J. A., Little Silver, N. J.	1099	Mazelin, Joseph, Berne, Ind.	1068
Besse, C. W., Jefferson, Maine.	1065	Garbutt, Cora B., Darien, Wis.	1068	Meadow Lark Farm, Elgin, Ill.	1066
Beuoy, Geo., Cedar Vale, Kansas.	1089	Gassmann, Henry, Olney, Ill.	1086	Meadow Lawn Poultry Yds., Michigan.	1091
Bird Bros., Meyersdale, Pa.	1064	Gensch, F. M., Omro, Wis.	1091	Merchants Drug Co., Easton, Md.	1082
Blatchford's Calf Meal Fcty., Illinois.	1106	Gensmer Bros., Creston, Ohio.	1065	Merrell, Arthur, Solon Mills, Ill.	1088
Bloese, Aug., Chicago, Ill.	1083	Gerber, G. J., Dalton, Ohio.	1080	Mersel, Alex., New York City, N. Y.	1073
Blum, Frank, New Washington, Ohio.	1068	Gilbert Poul. Farm, Haverhill, Mass.	1093	Metzger Mfg. Co., Quincy, Ill.	1066
Bock, Oscar L., Council Bluffs, Iowa.	1089	Globe Elevator Co., Buffalo, N. Y.	1090	Mitch, Philip J., Cleveland, Ohio.	1076
Bourne Mfg. Co., Melrose, Mass.	1080	Glory-Anna Poultry Yds., Louisville, Ky.	1086	Mirimichi Poul. Farms, Foxboro, Mass.	1087
Bradley Bros., Lee, Mass.	1106	Goddard & Sons, W. H., Muncie, Ind.	1092	Mittendorff, O. F., Lincoln, Ill.	1065
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Brown Fence & Wire Co., Cleveland, O.	1086	Grant, John, Richmond, Ill.	1086	Monmouth Farms, Frenau, N. J.	1087
Brown, John L., Anderson, Ind.	1047	Grove Hill Poul. Yds., Waltham, Mass.	1083	Moore, R. H., Nellie, Ohio.	1078
Bruerton, M. M., Wakefield, Mass.	1086	Halbach, H. W., Waterford, Wis.	1063	Morris Poultry Farm, Lebanon, Ohio.	1091
Buckeye Incubator Co., Springfield, O.	1089	Hales & Edwards Co., Chicago, Ill.	1042	Morse's White Leghorn Farm, Mich.	1095
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Bureau of Mushroom Industry, Chicago.	1074	Hayward, W. F., Westboro, Mass.	1086	Myers, C. Guy, Siddonsburg, Pa.	1089
Cadwallader, T., Salem, Ohio.	1091	Haywood Tire & Equip. Co., Indiana.	1074	Myers, C. N., Hanover, Pa.	1061
Cairngorm Farm, Nottingham, Ohio.	1083	Heasley, L. E., Holland, Mich.	1089	Myers, Frank, Freeport, Ill.	1101
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Carbola Chemical Co., New York City.	1069	Hering, Frank E., South Bend, Ind.	1107	Natural Hen Inc. Co., Los Angeles, Cal.	1076
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Carr Bros., Vineland, N. J.	1073	Hewes, Theo., Sec'y, Indianapolis, Ind.	1107	Neusitz Co., W. A., St. Louis, Mo.	1086
Carter's Poultry Farm, Jonesdale, Wis.	1083	H. I. Company, Salem, Va.	1087	Newell & Gordiner, Troy, N. Y.	1070
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Cole, W. H., New York City, N. Y.	1080	International Glue Co., Boston, Mass.	1086	Olle, P. J., Racine, Wis.	1066
Conkey Co., G. E., Cleveland, Ohio.	1085	Ironclad Incubator Co., Racine, Wis.	1076	Orchard Farm, Noroton Heights, Conn.	1073
Conrad, E. K., Hackensack, N. J.	1086	Ives, Ives & Ives, Guilford, Conn.	1082	Owen Farms, Vineyard Haven, Mass.	1048
Cook, L., Oakville, Iowa.	1100	Jacobus, M. R., Ridgefield, N. J.	1078	Pabst Stock Farm, Oconomowoc, Wis.	1087
Cooke, Geo., Racine, Wis.	1082	Jensen, Carl J., Waukegan, Ill.	1068	Palmer & Son, D. F., Yorkville, Ill.	1066
Cornell Co., Great Barrington, Mass.	1093	Johnson, Frank, Chicago, Ill.	1080	Pape, Chas. G., Fort Wayne, Ind.	1083
Corn Prod. Refin. Co., New York City.	1070	Johnson Co., M. M., Clay Center, Neb.	1076	Parke, Davis & Co., Detroit, Mich.	1074
Cross, Frank, Montague, Mass.	1101	Kaup, F. A., Glen Ellyn, Ill.	1091	Parks, J. W., Altoona, Pa.	1073
Crotser, E. A., Fulton, Mich.	1086	Keefer, C. A., Muskegon, Mich.	1078	Pastur Lab. of America, New York.	1076
Cudahy Packing Co., Chicago, Ill.	1094	Keeler, Chas. V., Winamac, Ind.	1072	Peerless Hatchery, Chicago, Ill.	1068
Curtiss, E. G., Atsion, N. J.	1088	Keipper Cooping Co., Milwaukee, Wis.	1080	Pennington, J. S., Plainfield, Ill.	1091
Curtiss Co., W. R., Ransomville, N. Y.	1066			Penn. Poultry Farm, Lancaster, Pa.	1076
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 Queen Incubator Co., Lincoln, Neb.1106
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 Rawnsley-Shields Poultry Farm, Ohio.1101
 Read, W. E., Maywood, Ill.1083
 Read Poultry Farm, Watervliet, N. Y.1083
 Red Feather Farm, Tiverton 4 Cor., R. I.1045
 Reed, Mrs. Hattie D., Marcellus, N. Y.1088
 Reliable Inc. & Brooder Co., Quincy, Ill.1088
 Reliable Poultry Journal, Quincy, Ill.1082
 Reliance Incubator Co., Freeport, Ill.1083
 Riley, H. J., Bryan, Ohio.1068
 Rippley Mfg. Co., Grafton, Ill.1093
 Rockford Poul. Sup. Co., Rockford, Ill.1078
 Rock Ledge Farm, Southboro, Mass.1100
 Rosemount Farms, Franklin, Pa.1107
 Rudy, Geo. H., Mattoon, Ill.1094
 Ruf, Fred A., Crown Point, Ind.1082

Sanborn, Dr. N. W., Holden, Mass.1078
 Sanford, Geo. P., Wheaton, Ill.1082
 Sargent, Lester L., Washington, D. C.1096
 Schabell, John, Chicago, Ill.1091
 Schultz, W. F., Cuyahoga Falls, Ohio.1091
 Schwalge-Smith Co., Elmhurst, Ill.1045
 Sears, Howard O., Garden Prairie, Ill.1078
 Sefton Mfg. Co., Chicago, Ill.1070
 Seward, R. M., Lewistown, Ill.1101
 Sharp, Herb E., Spokane, Wash.1068
 Sheer Co., H. M., Quincy, Ill.1082
 Sheffield Farm, Glendale, Ohio.1065
 Sheppard, H. Cecil, Berea, Ohio.1043
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 Shoenhard, G. H., Freeport, Ill.1066
 Simmonds, Chas. A., Camp Point, Ill.1070
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 Smith, F. S., Hamilton, Ohio.1067
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 Stiarwalt, John, Decatur, Ill.1083
 Stiles, Chas. L., Columbus, Ohio.1074-1093
 Stratton Mfg. Co., Erie, Pa.1093
 Struble, Z. D., Bascom, Ohio.1080
 Sturman Grant, Mt. Carmel, Ill.1082
 Sunlight Poul. Farm, Lynchburg, Ohio.1047
 Sunnyside Poultry Farm, Bristol, Vt.1068
 Sunset Poultry Yds., Olneyville, R. I.1078
 Sunswick Poultry Farm, New Jersey.1072

Tarbox, A. & E., Yorkville, Ill.1066
 Taylor, Geo., Urbana, Ill.1086
 Taylor Instrument Co., Rochester, N. Y.1083
 Tenacre Poul. Farm, Princeton, N. J.1082
 The 1733 Ranch, Kearney, Neb.1096
 Thompson, E. B., Amenia, N. Y.1108
 Tiffin Poul. Farms & Hatchery, Ohio.1068
 Tompkins, Harold, Concord, Mass.1044

Tremper, S. N., Sandwich, Ill.1080
 Trethaway, Arthur, Wilkes-Barre, Pa.1076

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 Urban Farms, Buffalo, N. Y.1094

Walker, G. A., Polo, Ill.1078
 Ward, Jr., John W., Pennington, N. J.1086
 Ward, R. W., Normal, Ill.1091
 Ward, W. H., Nickerson, Kansas.1083
 Watson Mfg. Co., Lancaster, Pa.1092-1093
 Waugh, M. H., Peoria, Ill.1088
 Wellcome, F. O., Yarmouth, Maine.1082
 Wendell Incubator Co., Holly, Mich.1091
 Whatglen Farm, Lancaster, Pa.1046
 White City Egg Farm, Seville, Ohio.1082
 White Wyandotte Poul. Yds., Mass.1072
 Wiebke, W. H., Fort Wayne, Ind.1082

Wilburtha Poul. Farms, New Jersey.1092
 Williams, A. C., Ravenna, Ohio.1080
 Willow Tree Poultry Farm, Mass.1088
 Wilson Bros., Easton, Pa.1076
 Wolf, Mrs. John, Merrifield, N. Dak.1083
 Woods, H. M., Carlisle, Ill.1091
 Woodward, C. L., Norwalk, Ohio.1093
 Woodward, Ralph, Grafton, Mass.1070
 Woolery Farm, Bloomington, Ind.1080
 Wyckoff & Son, C. H., Aurora, N. Y.1081

X-Ray Incubator Co., Des Moines, Iowa.1044

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A fine lot of young birds now ready for the early shows from my Chicago, Cleveland, Indianapolis and Pittsburgh winners. Mention American Poultry Journal.

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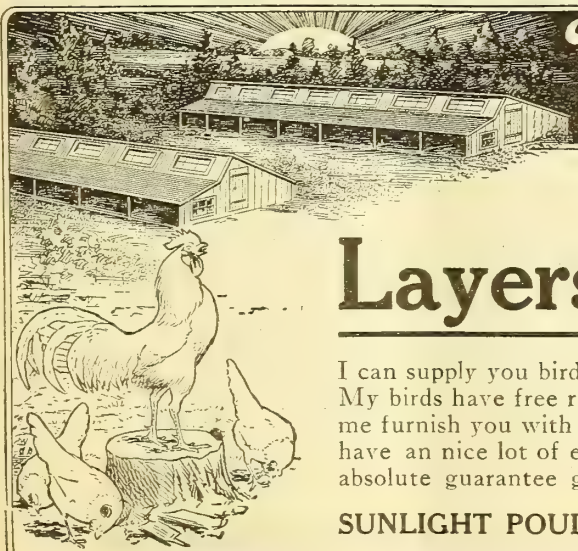
Keep Up with the Procession

THE FACT that your name was a household word to the poultry raising fraternity last year and the year before does not mean that you can lay back on your laurels. The ranks of the buyers are constantly changing—the old are going—the new are coming.

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Best Known Layers. Young Strain.

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I can supply you birds that cannot be excelled for type, color or as egg producers. My birds have free range the year around, meaning sturdy, vigorous fowls. Let me furnish you with a pen or a trio, that are fit to win in the early shows. Also have an nice lot of early hatched cockerels at prices that will surprise you. My absolute guarantee given to all; write me today please, for catalog and wants.

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Buff and White Orpingtons
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They have demonstrated their superior quality at Madison Square Garden (New York), Grand Central Palace (New York), Boston, Chicago, Cleveland, Pittsburgh, Syracuse, Allehtown, Atlanta, Augusta, Nashville, Memphis, Livermore (California) and Brockton (Massachusetts), by

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In addition thousands of prizes at hundreds of shows all over the world have been won by Owen Farms birds in customers' hands. These include the largest shows in the United States, Canada and the various foreign countries.

MY BIRDS ARE LINE BRED

from generations of winners and win consistently year after year. They have always made good in the past and will make good in the future. Old customers come back to me year after year when they need a bird or birds to complete their strings, and many of my new customers come to me because old customers tell them they will find absolute satisfaction with purchases made here. These facts give me more personal satisfaction than any others connected with my business. Every bird you buy here will be carefully selected by either Mr. Davey or the writer and a careful record kept of same. We are a unit in giving every customer just a little more value than he pays for, or expects. You will receive the benefit of our long years of experience as successful breeders.

Winners Furnished for Any Show in the World

No matter where you wish to win, you will find here the bird of birds you need to win for you. The best part of it is they will be line-bred birds of my own growing that will breed you winning chicks. It will be wise for you to place your order early and secure for yourself the all powerful backing of Owen Farms flocks. I only sell to one customer for a given class for any show; so an early order may prevent your main competitor from securing a bird here to win over you.

393 Owen Farms Birds have won first prizes at Madison Square Garden, N. Y.
No Similar Record has been made by the birds of any other breeder.

1916 QUALITY

It is to your advantage to order early. My flocks now number over 8,000 birds and they are the finest average quality ever on Owen Farms, which means they are the best to be found anywhere. My hatching commenced in early January and continued well into July. This will give me youngsters in their prime for your show, whether it be early or late. You will find among these superb birds exactly what you need for showing, breeding or utility. The winners for your fall fairs as well as you winter shows are among them.

UTILITY QUALITIES

The latter part of May, January hatched pullets in four varieties commenced laying at less than five months of age. This will show you the early maturing qualities in my four largest varieties. (As no Leghorns or Wyandottes were hatched in January these are not included.)

Owen Farms birds are famous the country over for size, bone, perfect health, vigor, prepotency and heavy laying qualities. There are no birds anywhere that excel them in these important functions and they have few equals.

My Birds Live, Grow, Lay and Pay. Husky Utility Cockerels, \$3, \$4 and \$5 each. Pullets, \$2.50 and \$3 each.

BREEDING BIRDS

You are already planning your matings for next season. Your young birds are not fully developed, but you know about what you will need to make your matings the strongest you ever had. Why not place your order now for future delivery? Will select the exact bird or birds you need and hold them until you want them, upon payment of 25% of amount involved. An early order while my flocks are very large will work to your advantage and to mine.

Owen Farms New Illustrated Catalog

will prove a real treat for you if you have not already seen it and is yours for the asking. A careful reading will make you an Owen Farms customer and your treatment here will make you a permanent one.

Satisfaction Guaranteed Every Customer Every Time

This guarantee is backed by my 27 years experience in breeding and selling thoroughbred poultry.

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AMERICAN POULTRY JOURNAL

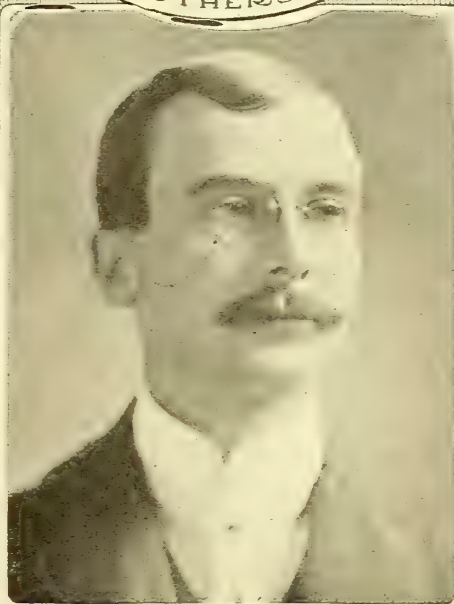
VOL. XLVII No. 9

WE LEAD

FOLLOW

OTHERS

SEPTEMBER, 1916



ARTHUR G. DUSTON—PIONEER POULTRYMAN

ARTHUR G. DUSTON, of South Framingham, Mass., is a specialist breeder of White Wyandottes. He was born in Auburn, Maine, and is 49 years old. In 1888 he moved to Marlboro, Mass., and for a number of years was engaged in the manufacturing business. He began breeding poultry in 1892 and at first bred Black Langshans, Barred Plymouth Rocks, Buff Cochins, Light Brahmas and White Wyandottes. For a time he devoted a good deal of attention to market poultry and particularly to the production of fancy quality broilers. "Duston's Butter Balls," as some customers knew them, were about the last word in delicious, quick-grown, plump broiling chickens. In all probability it was their exceptional value as a quick-grown market chicken that

first influenced him to become a White Wyandotte specialist. Whatever the reason, he discarded all other varieties in 1894 to devote himself to White Wyandottes exclusively. Standard quality and the production of prize winners was ever a hobby with him and he has bred White Wyandottes that have won on merit in big and little shows all over the country.

Naturally his fancy poultry business, the production of breeding and exhibition stock and eggs for hatching grew to such proportions that it demanded all of his time. Duston birds are well known everywhere and he has shipped stock to practically every country where there is an interest in thorobred poultry.

What Uncle Sam Is Doing for Poultry

Illustrated Report of a June Visit to the United States Experimental Poultry Farm at Beltsville, Maryland.

By Prince T. Woods, M. D.



OUR FIRST VISIT to the United States Government Poultry Farm at Beltsville, Maryland, was made in September, 1912. At this time Uncle Sam's poultry plant had only just chipped the shell and gave promise of becoming a lusty chick. Our second visit was made late in June of this year, 1916, and we were very agreeably surprised to find how much progressive work had been accomplished in less than four years. Government work is apt to be slow and to get tangled up in "red tape," but if Uncle Sam's poultry

investigators have experienced any such difficulties, their work does not show it, for, altho not yet fully fledged, the U. S. Government poultry plant is a thrifty, healthy, promising youngster that shows good growth along sensible and practical lines. In a few years much has been accomplished, and, with proper encouragement, the next few years will see much good work done.

Every poultry man or woman, every poultry organization, large or small, should get in touch with Senior Animal Husbandman Harry M. Lamon, Poultry Investigations, Animal Husbandry Division, Bureau of Animal Industry, United States Department of Agriculture, Washington, D. C., and ask the honor and privilege of an opportunity to co-operate with the Government in its poultry work. By such co-operation much good can be accomplished for the poultry interests of this country. From American Poultry Association official sources we were informed that about a year and a half ago the U. S. Dept. of Agriculture honored the American Poultry Association with several requests for co-operation in its poultry work, particularly in connection with the Girls' and Boys' Poultry Clubs, but at that time the President and Finance Committee of the association "did not feel that the necessary expense could be incurred" and, at present writing (July, 1916), we believe that thus far the American Poultry Association has no effort to take advantage of this golden opportunity to accomplish a great good for poultry interests. We believe that had the rank and file of membership been informed concerning this matter, that there would have been a way found to co-operate with our Uncle Sam. Opportunities still stand in line at the doors of organized poultry interests and we hope that they will not be turned aside. In our humble opinion no one could so well and ably standardize and promote pure-bred poultry interests, for the benefit of

all poultrymen, as the work could be accomplished under the direction of the United States Department of Agriculture in co-operation with State Agricultural Departments, poultry organizations and poultry keepers everywhere. The matter surely is "worthy of a thought."

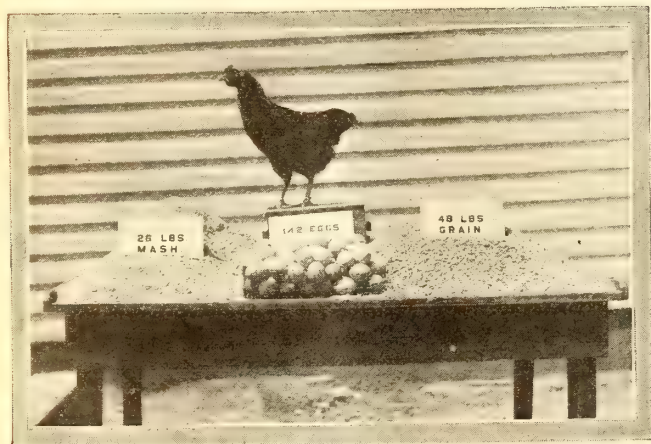
The United States Government Poultry Farm is located at Beltsville, Maryland, some thirteen miles out of Washington, D. C. By train or trolley from the Capital it is easily accessible and the roads are now excellent for automobiles. On our first visit we made the trip over deeply rutted, muddy roads, in a farm wagon from the railroad station, but on our second visit we motored out from Washington in the luxurious comfort of a touring car, driven by Alfred R. Lee, one of Uncle Sam's animal husbandmen. As a guest of our



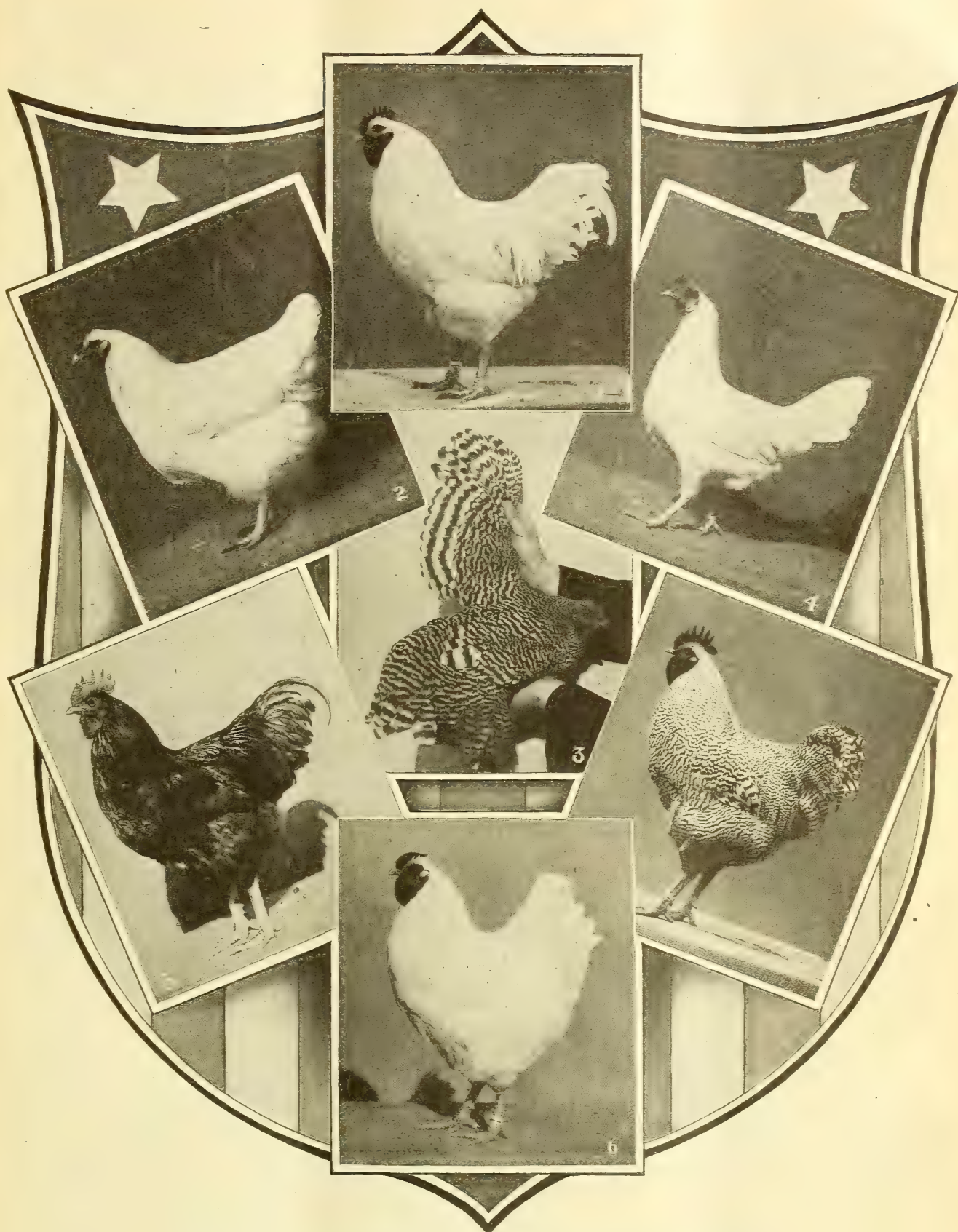
Growing range used for chicks in June, 1916, at U. S. Government Poultry Farm, Beltsville, Maryland.

Uncle Sam, we had a most agreeable and interesting visit in company with Harry M. Lamon, Alfred R. Lee, Robert R. Slocum, Joseph W. Kinghorn, of Poultry Investigations, and a government photographer. Altho it was visitor's day for us, a fact that impressed us most favorably was that our visit did not interrupt the regular routine of experimental work, and these Government poultry husbandmen, in jumpers and overalls, tackled the work in hand as if they enjoyed it and with the enthusiasm that is only born of intelligent and deep-rooted, wholesome interest.

There is a great deal of practical and worth-while experimental work under way, some of it of several years duration. The record keeping system is very complete and the records were open for our personal inspection, tho most of the data is not available for publication until it has been presented in the form of Government bulletins and circulars. There are many interesting poultry breeding experiments with pure-bred stock, including the holding of certain fine males "at stud" and breeding females to them after the manner of breeding other thorobred animals. This plan is working out in a very satisfactory manner. Breeding is conducted to improve both the beautiful and the useful characters, and the prepotency of individuals is studied and recorded. Experiments in using pure-bred males to grade up ordinary flocks are demonstrating the value of the pure-bred male. Breeding to improve egg production has apparently demonstrated the value of using the selected good layers, even from flocks of rather poor layers, for breeding purposes and that the daughters of such selected layers may prove better producers than their dams. We did not observe that breeding from unusually fecund females had resulted in any preponderance of high-record layers in the progeny however, and high record layers appear to be still comparatively rare birds on the plant. Pens of mongrel fowls, selected just as they come from the

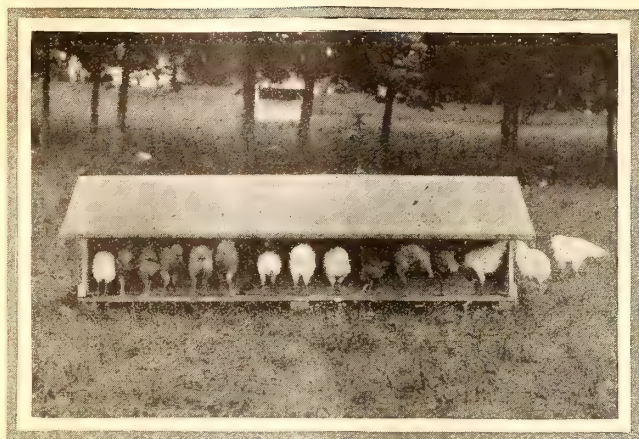


The first year's record of food consumed and egg yield of an average Rhode Island Red pullet. This pullet was in Pen No. 1 at U. S. Government Poultry Farm, Beltsville, Md. She consumed 26 pounds of mash and 48 pounds of grain, and her egg record was 142 eggs for her pullet year. Just compare the size of this pullet with the heaps of raw material and basket of finished product used for illustrating what this small egg machine accomplished.



PURE-BRED FOWL BRED AND OWNED BY UNITED STATES GOVERNMENT.

The above pure-bred fowls are the property of our Uncle Sam and these unretouched photographs, by the artists of the Bureau of Animal Industry, show that quality poultry is being bred at the U. S. Government Experimental Farm, Beltsville, Maryland. (1) White Plymouth Rock cockerel. (2) White Plymouth Rock female. Her record shows 84 eggs in 92 days; 109 eggs in 122 days, and she was bred on Uncle Sam's poultry plant. (3) Pullet-bred Barred Plymouth Rock, showing that the U. S. Poultry Investigators are breeding for quality and beauty, as well as the useful meat and egg values. (4) White Leghorn female. She has a record of 214 eggs in one year. (5) S. C. Rhode Island Red cockerel. The photo does not do him justice, for he is a bird of fine color all over and very uniform in coloring. (6) White Wyandotte cockerel. (7) Pullet-bred Barred Plymouth Rock cockerel. It is worth noting that the birds of Uncle Sam's breeding are well-developed, sound, healthy, vigorous specimens. The beautiful and the useful is well combined here.



One of the large food hoppers in use on the growing range at U. S. Government Poultry Farm, Beltsville, Md. This hopper is filled with dry mash and these chicks posed naturally and especially for American Poultry Journal to show the hopper in practical every-day use.

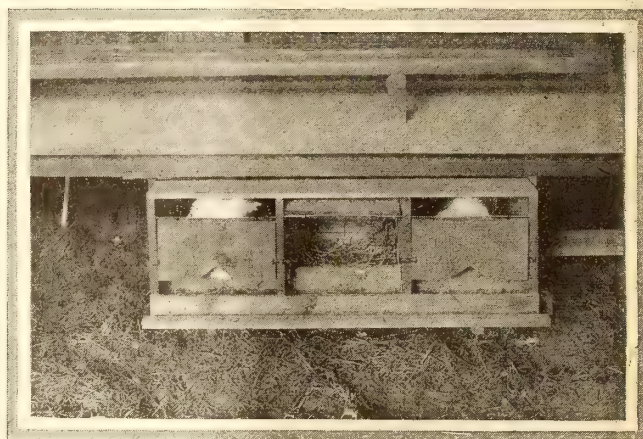
live poultry market, are being compared with flocks of pure-breds kept under like conditions. Breeding, hatching and rearing experiments cover a wide range. There are many feeding experiments being conducted and a bulletin reporting work thus far is shortly to be issued. We saw flocks without any animal food and others on various rations which include different sorts of animal food in varying percentages. Practical and simple, easily prepared rations are being compared with more complex mixtures. In our opinion, the simple rations with a fair percentage of animal food will be found to give as good results as any. One ration that appeared to be giving excellent results, was sufficiently simple to meet conditions in almost any location. This ration consists of dry mash, two parts of corn meal and one part each of bran, middlings and beef scraps; a scratch grain mixture of equal parts wheat, corn and oats; the birds being encouraged to eat about the same quantity of mash as of scratch grain. Twenty-two separate pens are included in feeding tests; six of these in their fourth year.

All experimental work is conducted in an open-minded way, for purposes of observation rather than in an attempt to prove or disprove anything. The records are carefully and accurately kept and the summing up of this data should prove of considerable value to poultry keepers. At the time of our visit there were several hundred fine large pure-bred chicks on the growing range and the chicks of a number of colonies were being weighed, rebanded with larger leg bands and the weights recorded. Chicks are weighed at various stages of growth and the records present valuable data for comparison.

It is no small stunt to keep one breed or variety and breed it to a reasonable state of pure-bred perfection. Uncle Sam, on his farm, is breeding White Leghorns, White Wyandottes, Buff Leghorns, White Plymouth Rocks, Barred Plymouth

Rocks, S. C. Rhode Island Reds, and Buff Orpingtons, and is able to show very excellent quality in all of his varieties. In addition he has a number of flocks of grades and common fowl that are being used in experimental work. There are 70 breeding pens. Recently a pigeon house and fly has been added to the equipment and some interesting breeding work is being done with pigeons of several varieties.

A new and attractive modern residence has been built for the resident poultryman and a number of poultry buildings have been added to the plant since our first visit. At the present time Uncle Sam has a convenient and practical, well-equipped poultry plant, kept in neat and attractive condition, so that it is always ready to receive visitors. All equipment not in actual use, is put in order and stored away under cover until needed. The photographs with this article tell the story of the plant better than it can be told in words. The two long breeding houses are well and substantially built and are models in convenience and comfort. The new cockerel house is one of the best we have ever seen and is fitted with pens for cockerels "at stud," for small special matings, and for surplus males. Scattered over the plant are many convenient colony houses for layers and for growing stock. On the growing range are colony brooder houses and colony coops for growing chicks. In the breeding houses trap nests are used, and these are of a very convenient and inexpensive pattern.



Interior arrangement of a pen in Uncle Sam's long poultry house, showing trap nests in use. U. S. Government Poultry Farm, Beltsville, Maryland.

Plans of poultry buildings and equipment used can be obtained on application to the Department. The Government makes exhibits at fairs and shows, in co-operation with the local management, when desired, and at these exhibits working models of poultry houses and equipment are shown together with a splendid line of charts and instructive poultry pictures.

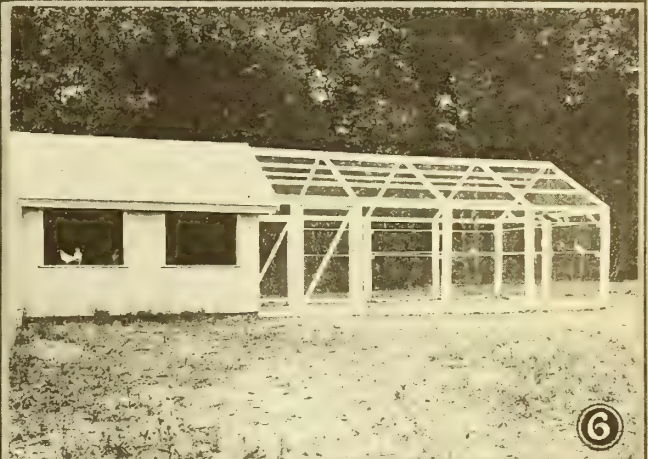
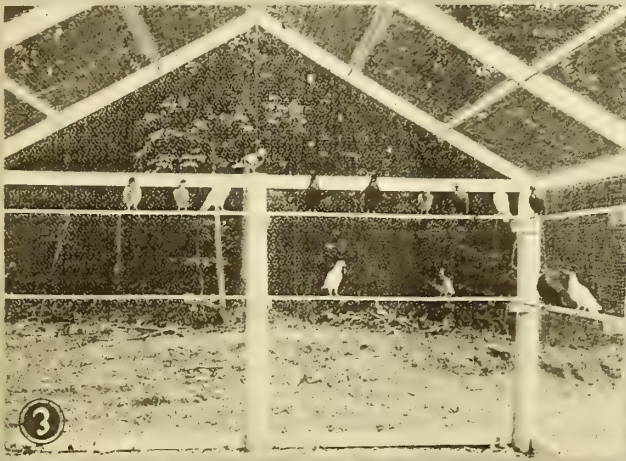
At the farm, moving pictures are being made, from time to time, of various phases of poultry work and photographers are kept busy in making photographic records of the progress of the work on the poultry farm. The Department has several reels of poultry movie films that are available for poultry instruction work and these are so greatly in demand that they are almost constantly in use and requests for them have to be filed well in advance. Also there are many fine lantern slides of poultry subjects used in lecture work before Girls' and Boys' Poultry Clubs and other poultry or rural organizations.

Taken as a whole, Uncle Sam's work, for more and better poultry, shows progress and the development of a Government poultry plant and organization that is well worth while, and one that will undoubtedly do much for pure-bred poultry and for the betterment of every poultry interest.



Group of colony growing coops on a shady woodland range at U. S. Government Poultry Farm, Beltsville, Md.

Do you ever have an idea that savors of originality? Your future success calls for some measure of original thought. Form the habit today, of searching your brain for useful ideas. The ideas are there, but it requires a little mental exertion to reveal them and put them into working.



VIEWS OF UNITED STATES GOVERNMENT POULTRY FARM.

(1) Long cockerel house, equipped with cockerel pens and affording opportunities for special matings and holding desirable males "at stud." (2) Long breeding house No. 1. At the right is a two and one-half story section used for grain, supplies, and as an office. (3) View of the interior of pigeon fly, showing some of the fine breeding birds now being used in experimental work. (4) Residence of the resident poultryman. (5) View of breeding house No. 2, showing the double yarding system. (6) Pigeon fly at end of breeding house No. 2. (7) Colony houses used for experimental pens and for growing stock. At right side of this view is shown a stile which is found very convenient when used in place of a gate. (8) Colony houses and yards in the woods. Wherever you go on Uncle Sam's poultry farm, you find things neat and in order.

THE SURVIVAL OF THE FITTEST

How to Establish a Strain—Breeding for Uniformity—How to Select Good Vigorous Specimens—Selecting for Standard Points. *By Chas. A. Simmonds*



THE amateur breeder is usually quite eager to learn how to breed the best fowls, but alas! after reading the many different "systems" and theories on the question, many of which are couched in technical terms, he is frequently at a loss to know how to proceed.

The breeding of fine fowls is an art. A scientific understanding of heredity is a great help, but the artist at breeding will always excel the scientist in the results produced. The most successful breeders have generally followed systems

of their own and can only tell in a general way how they do it.

An exceptional fowl, one that excels its ancestors, and its brothers and sisters, is frequently produced by chance. Any breeder will thus breed a few good birds, but the true test of a breeder's skill is the average quality of his entire flock. Having produced a bird with ideal qualities, the next step is to produce more like it and eventually fix its good qualities in a strain. The method of mating to accomplish this result in the shortest possible time differs according to whether the desirable characteristics are dominant, recessive or mixed dominant, or according to the degree of its prepotency as a breeder. A skillful breeder can take any strong vigorous bird, regardless of how produced, and eventually reproduce any characteristics which it may possess, even tho they may be recessive characteristics which will not show in the first generation. To bring out the recessive characteristics it is necessary to mate the progeny of the bird together, brother and sister, which will produce progeny one-fourth of which will show the recessive characteristics. These are pure recessives and will not breed the opposite characteristics of the original bird. A strain may be produced from one individual specimen, that when bred in line will produce the desirable characteristics upon 90% of its progeny, and the foreign or undesirable characteristics on less than 10% of its progeny.

In mating and breeding man can only assist nature, he cannot improve on her. In nature only the fittest survive, and this is but a small per cent in any species, tho the per cent varies with the species. The elephant is the slowest breeding animal known, but it has been estimated that if each elephant born were to live till it had past its period of prolificacy it would be but a comparatively short time till the world would be covered with elephants. Upon the rapidity with which a species in the wild state reproduces must, to a large extent, depend the per cent of its progeny that live to reproduce their kind. Thus it is that while a species may gradually increase and replace an inferior species which is decreasing to finally become extinct, nature continues to maintain the proper balance between the different forms of animal and vegetable life. This process of natural selection has been termed, "The survival of the fittest," because the specimens which in the wild state live to reproduce their kind are those best fitted to procure food, withstand the devitalizing effects of parasites, excessive heat or cold, and escape destruction by beasts and birds of prey. Also in the case of males (especially in polygamous species) it is either those who can best please the females by beauty of plumage or voice, or defeat in battle rival males for the possession of the females that leave the largest number of descendants. In the majority of species the beasts and birds of prey take a much larger toll than all other agencies of destruction.

In the breeding of domestic poultry we find that while the characteristics that determine fitness in the domestic fowl are very different from the characteristics demanded by nature, we can find no system of selection superior to nature's. We can, however, secure the desired results in a much shorter time by not only eliminating the unfit but also those that being impure in their characteristics or mixed dominants fail to breed true to their type.

The advocates of line-breeding have frequently referred to the uniformity of coloring in wild birds of the same species. The fact is, if one will study as carefully and from as close range a flock of wild fowl he will find about as much variation in color as one unfamiliar with the Standard requirements would be able to find with an equal amount of study of some of the best flocks of domestic fowl. There is always a difference in individual specimens, no two are alike, and variation, if not too great, is an advantage, as without it there could be no selection either by nature or man. The reasons that there is generally more uniformity among individuals of a wild species than those of the breeds produced by man are because nature is more rigid and persistent in selecting toward a certain type and because by this rigid selection she eventually increases the per cent of the blood of the desirable and prepotent ancestors and decreases the per cent of the blood of the ancestors having undesirable characteristics. Thus the characteristics of the individuals of the species are the dominant blood characteristics of a comparatively small number of ancestors, and are possessed in comparatively equal degree by each individual specimen.

As previously stated, average quality is the true test of the value of a strain. It is from strains showing a large per cent of uniformly high class birds that the exceptional birds capable of winning the blue in the strongest competition are invariably produced. To secure uniformity in any reasonable length of time it is necessary to line-breed. Uniformity could be more quickly secured by inbreeding. The disadvantage of inbreeding lies in the difficulty experienced in trying to eliminate the defects of the original ancestor. The bird that can be mated to its own progeny for several generations with good results is very rare. If there is any constitutional weakness it will be reproduced in greater degree each succeeding generation as long as the inbreeding is practiced.

An out-cross destroys uniformity and must be followed by rather close inbreeding to "fix the type." Most line-bred strains were started by close inbreeding. Some of the best strains owe their merits to but one ancestor. If one bird far excels the others of the breed or strain, his good qualities can only be fixed in a strain by making his blood the dominant blood of the strain. The old way is to mate this bird to his progeny for several generations, producing birds $\frac{3}{4}$, $\frac{7}{8}$, $\frac{15}{16}$, etc., the blood of the original male. The fault of this system is that the mating is too close, there is not enough chance to eliminate the defects of the original bird and extreme care is necessary to prevent these defects becoming magnified in the progeny. The type of an exceptional fine specimen can be fixed in a strain with but little inbreeding by the following system:

Male A being the bird whose type it is desirable to fix in the strain, he is mated the first season to females B, C and D, none of which should be related to him. The second season, the best pullets from females B, C and D are mated back to their sire, male A, producing stock carrying $\frac{3}{4}$ the blood of male A and $\frac{1}{4}$ the blood of either female B, C or D. Also select the best cockerel from each of the females B, C and D and mate each to a sister of male A; these matings will produce stock with $\frac{1}{4}$ the blood of A, $\frac{1}{4}$ the blood of either B, C or D, and $\frac{1}{2}$ the blood of a sister of male A.

For the third season's matings, select the best pullets from each of the three cockerels used the second season and mate them to male A, which will produce stock that is $\frac{5}{8}$ the blood of male A. Also select the best pullets raised from male A the second season and mate a few of them to the best son of each of the three cockerels used in the second season's matings, which will also give you chicks with $\frac{5}{8}$ the blood of male A. The chicks raised the third season should be a uniform lot and if proper selection has been practiced will show an improvement upon the good qualities of male A, with a lessening of his defects.

The fourth season all cocks and hens should be discarded, breeding only from cockerels and pullets. The proper way to mate this season, and as a general rule in the future, is to head each pen with a male as distantly related to the females in the pen as you can find without going outside your own line. You may find it an advantage to introduce a little new blood in order to improve some fancy point, but should not require it to increase the vigor of your stock, not unless you use less than three matings a season.

If it be an extra fine female instead of a male from which one desires to start a strain, a similar system can be used by changing her mates in the middle of the breeding season. In this case no eggs should be set for two weeks after changing the males, as one would not be sure which male was the sire of the chicks hatched from the eggs produced during this time. A strain being well established, there should be enough high class birds raised each season to make inbreeding unnecessary.

The amateur should not attempt to start a strain of his own until he has mastered the art of mating and breeding. The best course which he can pursue is to select some reliable breeder who has established a superior strain and purchase a pen or two mated by him. He can then send back each year for stock, or can buy eggs from the breeder's best pens and raise stock that being of the same line will "nick" with his own birds and give him the advantage of the improvement the breeder has been making in the strain. Of course, it is very necessary that in starting to breed along these lines one should select a breeder from whom to purchase foundation stock who practices line-breeding and breeds his own winners, instead of buying them. However, there are few breeders who would not occasionally buy a bird of another strain if they were to find one strong in some point in which their own line was weak. But having secured such a bird, they would be very careful to prove out its breeding well by experimental matings before introducing its blood into the entire strain. They would then introduce only the per cent of its blood necessary to produce the desired result.

The best system of mating depends upon the breed and strain. Nine breeding failures out of ten are due to the breeder rather than the particular system which he followed. It is absolutely necessary that one breed only from the best, both as to individual quality and blood lines, if one would hope for improvement.

When selecting breeders, vigor should always receive first consideration; one cannot keep up the size and shape of a strain or produce brilliant colored plumage without keeping up the constitutional vigor. If one will isolate the best chicks when they weigh 2 or 3 lbs. each and watch their growth he will be in better position to select his breeders the following season and can improve the rapid growing or economical meat producing qualities of his strain. We hear a great deal about the "egg type" hen. Shape (as type here means) is largely a matter of feather. The length of back depends largely upon the carriage of tail—a high tail gives a short back, a low tail a long back. The breadth of back depends to some extent upon the length and looseness of the saddle plumage and the length and looseness of the under plumage has much to do with the apparent length of leg. What is generally considered the best egg type conflicts in several points with the most vigorous type. The head of a bird is the best indication as to its vigor. It should be deep and broad across the skull, the beak should be strong and well curved, the eyes large, bright, and the more red the better. The comb and wattles should not be too small and should have a bright red color, also if you would select good layers be sure they are smooth and fine in texture and the face free from wrinkles. This is the best indication of a good layer I know. After the head, look to the shanks; these should be of good size, smooth and round and parallel when viewed from front or back. The general body type should be well proportioned or symmetrical and filled out properly in all sections. Examine your birds to ascertain their true type so as not to be deceived by feathers. Good length to plumage, especially in saddle and tail of males, is a good indication of vigor, but if too loose and fluffy it indicates inactivity.

I have now told you how you can select good vigorous

specimens to use in your breeding pens. Selecting for Standard points differ with the variety, as every one knows, but always remember this, that a bird fairly good in all sections and with no serious defects is much more valuable for breeding than one exceptionally fine in a few sections but possessing serious defects. To select the birds of proper blood is more difficult, but if you have trap-nested for several generations and kept records of your breeding operations you are in a position to mate intelligently. The breeder who knows the dam as well as the sire of every chick will make as much progress in three years as the breeder who knows only the sires of his chicks will make in ten. The breeder using trap-nests and keeping pedigrees will soon eliminate the dominance of blood lines that fail to produce high class stock in good proportion. But where one does not know which one of eight or ten hens is the mother of a cockerel he has selected to head a breeding pen, he is quite apt to make the mistake of



FIRST PRIZE WHITE ROCK PULLET
NEW YORK PALACE SHOW DEC. 1915 OWNED BY
LEWIS P. DÖERHOEFER ANCHORAGE, K.Y.

using a bird from a hen that (being mated to a fine male) has produced him a small per cent of high class birds and a much larger per cent of culls, but knowing that both the sire and the dam of the bird have produced a large per cent of uniformly high class birds, one can reasonably expect their progeny properly mated to do the same. The amateur should realize that there are many details which must be carefully attended to if one would produce high-class stock. Breeding is only half, feeding and care are equally important.

EGG LAYING CONTEST IN KENTUCKY.

Plans have been perfected for holding a big egg-laying contest at the Kentucky Agricultural Experiment Station, beginning November 1st. Every breeder of poultry who thinks he has an egg-laying strain of birds should write to the Experiment Station for a copy of the booklet giving the rules and regulations.

It is planned to start with fifty pens of five pullets each. Data will be kept in regard to the number of eggs laid and the feed consumed.

American Poultry Association Convention

Forty-First Annual Meeting at Cleveland, Ohio, August 7-11, 1916,
One of Harmony, Unity and Progress.

By Prince T. Woods, M. D.

Be united—united—UNITED!

—Schiller.

Divide and command, a wise maxim:
Unite and guide, a better.

—Goethe.

There with commutual zeal we both had strove
In acts of dear benevolence and love;
Brothers in peace, not rivals in command.

—Homer.



FROM THE OPENING ADDRESS by Frank E. Hering at the first regular session on August 8th, 1916, the watchwords of the Forty-first Annual Convention of the American Poultry Association, held at Cleveland, Ohio, were—Harmony, Unity and Progress. The Association has been navigating troubled and uncharted waters, particularly since the San Francisco meeting. Misguided, tho perhaps well-meaning, efforts to "divide and command" had brought the ship of state, in stress and storm, close upon the rocks of a lea

shore and shipwreck seemed inevitable. At Cleveland, Pilot Frank E. Hering came to the helm with a clearly defined course to "unite and guide," pointed out the channel of Fraternalism and Co-operation and the safe harbor of Harmony, Unity and Progress.

An "old timer" who has attended every annual meeting of the American Poultry Association for the past fifteen years said that the Cleveland convention was "the most harmonious and satisfactory American Poultry Association meeting held in many years." In general this appeared to be the view of the majority of those who were in attendance. The meeting was an unusual one in that business was transacted smoothly and speedily, well within the schedule of the program, without the customary lengthy and unnecessary wordy debates, and the delegates were given an opportunity to take advantage of the entertainment provided by the local committee and to enjoy the institute lectures.

Later on, when we can obtain the report of the official stenographer, we hope to be able to publish the greater part of Mr. Hering's address and we trust that it will be fully given in the official proceedings. Mr. Hering is a specialist in organization work and he spoke earnestly of the importance of conducting Association affairs along the lines of progress and fraternalism. It is the aim of all national and international organizations today to increase confidence and promote harmonious dealings among persons having allied interests, rather than to disrupt things by inviting suspicion and lack of confidence on the part of the public. It was pointed out that it is unwise to have too much legislation and too little co-operation; that extensive rulings, stringent regulations and investigation proceedings are apt to prejudice public opinion against an organization; that it is not advisable for an association to devote much of its attention to police work or court proceedings, particularly when it is possible to place such matters in the hands of the proper government authorities who have the power to act and are prepared to take prompt action. It was urged that reorganization along practical and business lines is much needed; that the Association as it stands today is not as effectively organized as it should be for the best interests of the whole poultry fraternity. It was also demonstrated that the American Poultry Association has not been making the most of its opportunities, particularly in the matter of co-operating with the United States Department of Agriculture and the agricultural departments of the separate states in the promotion of constructive work in poultry husbandry. The policy of the international organization should be the building up of all poultry interests in all branches of poultry husbandry and any publicity that tends to tear down instead of building up, or which may destroy the confidence of the public, is greatly to be deplored.

The first regular business session was called to order on Tuesday morning, August 8, by Vice-President Arthur A. Peters, of Denver, Colorado. About 360 members, representing all sections of the United States and Canada, were present and registered. The usual preliminary exercises included addresses of welcome by representatives of the Cleveland City Government, the Chamber of Commerce, the Cleveland Poultry Breeders Association and the Ohio Poultry Breeders Association. President Frank C. Stier, of the last named association, made an eloquent address of welcome, urged reorganization along modern, practical, business lines for efficient co-operation and the promotion of harmony, unity and progress. Mr. Stier, by the way, was one of the hardest worked members of the local entertainment committee and he and his associates have the hearty and cordial thanks of all delegates for the warm welcome, the splendid entertainment, the all around good time and the prevailing good fellowship which was characteristic of the Cleveland Convention.

Sincere regrets were expressed that illness caused the unavoidable absence of President E. E. Richards, and to him were extended the best wishes of all members and the hope that he may speedily be restored to health. President "Dick" has many friends who greatly missed him at Cleveland. One of the pleasing features of the opening session was the presentation of a gavel to Vice-President Arthur A. Peters by the Ohio poultry breeders. The gavel was made from white lilac wood by veteran breeder Charles McClave, of New London, Ohio.

Following is statement of the finances of the American Poultry Association as presented by the committee:

Itemized Statement of the Financial Condition of The American Poultry Association, Together With a Full Report of All Transactions Covering the Fiscal Year, Expiring June 30, 1916.

To the Finance Committee, E. E. Richards, Chairman.

JUNE 30, 1915, TO JUNE 30, 1916.

RECEIPTS—June 30, 1915, to June 30, 1916.

Balance in Mansfield Savings Bank as per Financial Report, rendered June 30, 1915.....	\$ 300.00
Five hundred and forty-one life membership fees.....	5,410.00
Sale of Standards.....	11,093.04
Sale of Standard, 1910 edition.....	1.00
Sale of Show Supplies.....	5,381.99
Sale of Emblems.....	178.20
Membership fee, no refund.....	5.00
Judges' license fees.....	380.00
Sale of Bromides.....	31.36
Sale of Text Books.....	6.25
Sale of Lantern Slides.....	12.00
Sale of Proceedings.....	4.00
Sale of Egg Score Card.....	.10
Refund of express charges, Wells Fargo Co.....	.25
Exchange on checks.....	.30
Total.....	\$22,803.49

DISBURSEMENTS—June 30, 1915, to June 30, 1916.

Through Mansfield Savings Bank, Transferring Funds to Treasurer U. R. Fishel.

1915.			
July 31.	By check (No. 8) to U. R. Fishel, Treasurer.....	\$ 1,094.20	
Aug. 31.	By check (No. 9) to U. R. Fishel, Treasurer.....	2,731.44	
Sept. 30.	By check (No. 10) to U. R. Fishel, Treasurer.....	1,613.74	
Oct. 25.	By check (No. 11) to U. R. Fishel, Treasurer.....	1,505.74	
Dec. 31.	By check (No. 12) to U. R. Fishel, Treasurer.....	6,473.84	
1916.			
Jan. 31.	By check (No. 13) to U. R. Fishel, Treasurer.....	2,895.56	
Feb. 29.	By check (No. 14) to U. R. Fishel, Treasurer.....	2,617.19	
Mar. 31.	By check (No. 15) to U. R. Fishel, Treasurer.....	1,041.08	
Apr. 29.	By check (No. 16) to U. R. Fishel, Treasurer.....	1,279.10	
May 31.	By check (No. 17) to U. R. Fishel, Treasurer.....	443.13	
June 30.	By check (No. 18) to U. R. Fishel, Treasurer.....	808.47	
Total.....		\$22,503.49	
Total receipts.....		\$22,803.49	
Total disbursements.....		\$22,503.49	

Balance in the Mansfield Savings Bank, June 30, 1916.....\$ 300.00

Balance in The Citizens National Bank, June 30, 1915.....	\$ 2,860.19
July 31.	By check (No. 8) Transferring funds to Treasurer 1,094.20
Aug. 31.	By check (No. 9) Transferring funds to Treasurer 2,731.44
Sept. 30.	By check (No. 10) Transferring funds to Treasurer 1,613.74
Oct. 25.	By check (No. 11) Transferring funds to Treasurer 1,505.74
Dec. 31.	By check (No. 12) Transferring funds to Treasurer 6,473.84

1916.		
Feb. 29.	By check (No. 14) Transferring funds to Treasurer	2,617.19
	Interest on checking fund, not passing through our hands....	222.72
	Check No. 51, issued, not returned.....	\$ 10.00
	Check No. 251, issued, not returned.....	1.10
	Check No. 314, issued, not returned.....	3.00
	Check No. 472, issued, not returned.....	2.50
	Check No. 469, issued, not returned.....	40.00
	Check No. 763, issued, not returned.....	3.50
	Check No. 775, issued, not returned.....	8.50
	Check No. 169, issued, not returned.....	8.00
	Check No. 241, issued, not returned.....	18.00
	Check No. 260, issued, not returned.....	4.00
	Check No. 362, issued, not returned.....	20.00
	Check No. 391, issued, not returned.....	2.00
	Check No. 405, issued, not returned.....	4.00
	Check No. 521, issued, not returned.....	26.00
	Check No. 543, issued, not returned.....	10.00
	Check No. 544, issued, not returned.....	2.50

Total.....\$169.10 169.10
\$19,288.16

By checks drawn on The Citizens National Bank from
June 30, 1915, to June 30, 1916..... 19,253.66

Balance in The Citizens National Bank, June 30, 1916.....\$ 34.50

IRWINS BANK STATEMENT.

1916.		
Jan. 31.	By check (No. 13) Funds transferred from Mansfield Savings Bank to Irwins Bank.....	\$ 2,895.56
Mar. 30.	By check (No. 15) Same.....	1,041.08
Apr. 29.	By check (No. 16) Same.....	1,279.10
May 31.	By check (No. 17) Same.....	443.13
June 30.	By check (No. 18) Same.....	808.47
Mar. 29.	By check (No. 600) Funds transferred from Citizens National Bank, Hope, Ind., to Irwins Bank....	1,640.58

Total.....\$ 8,107.92

By checks drawn on the Irwins Bank, from March 10, 1916,
to June 30, 1916, numbering from 1 to 147 inclusive..... 7,804.06

Balance in the Irwins Bank, June 30, 1916.....\$ 303.86

SUMMARY OF DISBURSEMENTS.

Through The Citizens National Bank and the Irwins Bank.		
Committee on—		
Editing and Publishing 1915 Standard.....	\$	96.36
Standard Revision		35.00
Market Poultry and Egg Standard.....		239.91
Welfare, Grievances and Appeals.....		404.00
Text Book		155.91
Education		8.07
Express		6.00
Breed Standards		635.68
Judiciary		219.10
Show Supplies—		
Ribbons		2,683.94
Loose Leaf Sheets		97.50
Coop Numbers		50.00
Printing		440.00
Money returned (overpaid).....		10.20
Refunds to—		
State and Provincial Associations on Memberships.....		1,169.68
State Associations on Show Supplies.....		507.08
Organizers		672.12
Executive Board Traveling Expenses.....		1,278.78
Proceedings—reporting, printing, postage and mailing.....		1,364.24
Bulletins—printing, postage and mailing.....		414.56
Printing—includes stationery for committees, circulars for organizers, etc.		401.07
Emblems		67.20
Medals		306.46
Bromides		23.55
Boxes—mailing emblems, medals, certificates, etc.....		20.00
Typewriter, desk and chairs.....		82.66
Lantern Slides		6.16
1915 Standard—		
Kenfield-Leach Co., Publishers.....		6,100.00
Illustrations		375.13
Half-tones		118.25
Freight and drayage.....		166.58
Money returned (overpaid).....		17.00
President's office expenses.....		4.40
Secretary's traveling expenses.....		230.40
Election Commissioner		677.03
Bond for—		
Treasurer		50.00
Secretary		12.50
Returned—		
Membership fee		10.00
Judges' License fees.....		60.00
Insurance		44.00
Salary—		
Secretary		2,000.00
Office assistant		451.00
Stenographer		367.00
Accountant auditing books.....		20.00
Rent		300.00
Standard Reserve Fund.....		2,218.62
Transferring Funds		1,640.58
Petty Cash—Itemized in Petty Cash Summary.....		800.00

Total.....\$27,057.72

Disbursements thru The Citizens National Bank. \$19,253.66
Disbursements thru The Irwins Bank..... 7,804.06 \$27,057.72

SUMMARY OF DISBURSEMENTS THRU PETTY CASH FUND.

Petty Cash Bank Book Balance, June 30, 1915.....	\$	297.13
(Page 30, 1915 proceedings.)		
Check No. 115 out when book was balanced.....		10.11
Petty Cash account book balance, June 30, 1915.....	\$	287.02
Petty Cash Fund, thru Citizens National and Irwins Banks..		800.00

Total.....\$ 1,087.02

Rent, Safety Deposit Box.....	\$	5.00
Telegrams and Telephone (part reimbursed).....		23.76
Freight and drayage.....		24.08
Stenographer		95.10
Express (part of which was reimbursed on Standards)		40.70
Postage (part of which was reimbursed).....		605.05
Refund on Show Supplies.....		22.17
Refund on Standard orders.....		27.31
Ribbons for shows.....		3.86
Insurance		3.00
Text Books		5.60
Paper for wrapping packages.....		2.71
Gummed labels		5.25
Twine for wrapping packages.....		2.73
Duplicator Roll		3.80
Labor		7.50
Stenographers' note books and rubber stamp.....		1.95
Index cards and binders.....		4.03
Printing		7.35
Electros		2.58
Typewriter ribbons and erasers.....		3.25
Petty items, pencils, ink, paste, carbon paper, etc...		13.52
Refund on buttons returned.....		3.15
Collecting Agency, for collecting accounts.....		10.13

\$923.66

Petty Cash Account balance, June 30, 1916.....\$163.36
Check issued, not returned (No. 239).....\$ 1.10
Check issued, not returned (No. 250)......50

\$ 1.60

\$164.96

Petty Cash Fund bank balance, June 30, 1916.....\$164.96

STATEMENT OF EMERGENCY FUND.

Book No.	Balance July 1, '15	Interest to July 1, '16	Balance July 1, '16
2597 Sheldon Bank & Trust Co., Sheldon, Conn.	\$1,191.03	\$ 48.10	\$1,239.13
44555 Derby Savings Bank, Derby, Conn.	1,179.38	47.62	1,227.00
29006 Savings Bank of Ansonia, Ansonia, Conn.	1,179.38	47.62	1,227.00
66034 City Savings Bank of Bridgeport, Conn.	1,179.38	47.62	1,227.00
51987 People's Savings Bank, Bridgeport, Conn.	1,179.38	47.62	1,227.00
	5,908.55	238.58	6,147.13

STANDARD RESERVE FUND.

30088 Mansfield Savings Bank, Mansfield, Ohio.	July 8, '15 694.00		
Deposited July 8.....	\$ 30.93		
Deposited Aug. 6.....	158.97		
Deposited Sept. 10.....	466.41		
Deposited Oct. 15.....	126.67	Jan. 1, '16 17.04	
Deposited Nov. 1.....	81.38		
Deposited Jan. 10.....	471.62		
Deposited Feb. 7.....	234.84		
Deposited Mar. 11.....	296.77		
Deposited April 12.....	98.95		
Deposited May 8.....	142.29	July 1, '16 34.65	
Deposited June 6.....	36.03		
Deposited June 30.....	104.69		
Total.....	\$2,249.55	\$6,602.55	\$290.27

Emergency Fund deposited bearing interest.....	\$	6,147.13
Balance in Mansfield Savings Bank, June 30, 1916.....		300.00
Balance in The Citizens National Bank, Hope, Ind., June 30, 1916.....		34.50
Balance in Irwins Bank, Columbus, Ind., June 30, 1916.....		303.86
Partial-payment fund deposited in Citizens Loan Co., bearing interest, June 30, 1916.....		528.85
Balance Partial-payment Fund, Mansfield Savings Bank, Checking account, June 30, 1916.....		283.85
Petty Cash Fund bank book balance, June 30, 1916.....		164.96
Standard Reserve Fund, Mansfield Savings Bank, bearing interest, June 30, 1916.....		2,995.24

Total in Treasury of A. P. A.....\$10,758.39

Respectfully submitted,

S. T. CAMPBELL, Sec'y.

Following is the budget of expenditures for the coming
year as submitted by the Finance Committee and received by

(Continued on page 1087)

"WE LEAD, OTHERS FOLLOW"

EDITORIAL

American Poultry Journal

Entered as Second-Class Matter August 9, 1886, at the Postoffice at Chicago, Ill., under Act of March 3, 1879

SUBSCRIPTION PRICES.

Single Copies, 10c.
United States, Cuba, Mexico and
United States Possessions (except
the City of Chicago), 3 years (36
issues)\$1.00
Canada, 3 years (36 issues)..... 1.75
Foreign, 3 years (36 issues)..... 2.50
Chicago, 3 years (36 issues)..... 1.50
Chicago, Canadian and Foreign subscrip-
tions require additional postage and there-
fore the slight difference in prices.

Owing to the high quality of the peri-
odical which we are publishing at the price
asked for publications of inferior value, we
have discontinued the practice of entering
yearly subscriptions to American Poultry
Journal, but will enter subscriptions for 3
years (36 issues) for ONE DOLLAR
mailed to any point in the United States,
except Chicago. See above rates for Chi-
cago, Canada and Foreign subscriptions.

TRIAL SUBSCRIPTIONS—In order
to acquaint prospective subscribers with
American Poultry Journal, we will mail
one copy a month for six consecutive
months to any point in the United States,
its possessions or to Cuba or Mexico for
25c. The trial subscription offer (6 months
for 25c) is for new subscribers only and
not subject to renewal for a period of less
than three years.

If you change your address, give both
your old and new address, as well as your
subscription number when notifying us of
the change.

TRADE MARK REGISTERED,

No. 74,059.

Issued the first of each month.

Published by

**American Poultry Journal
Publishing Co.**

JAS. W. BELL, President,
542 So. Dearborn St., Chicago, Ill.

Editors.

JAMES W. BELL,
PRINCE T. WOODS.

L. A. STAHLER, Artist.

PRINCE T. WOODS, M. D. Managing
Editor, Silver Lake, Plymouth Co., Mass.

HELEN T. WOODS, Editor Woman's
Dept., Silver Lake, Plymouth Co., Mass.

Eastern Representative.

P. K. WHITE,
47 Buckingham St., Hartford, Conn.

Western Agency Representative.

EARL WHITNEY

Advertising Representative

SHEPARD STRONG
Berea, Ohio.

AUTHORIZED AGENTS—Our agents
are provided with receipt blanks bearing
the imprint of American Poultry Journal
and good for only a 6 months' "trial offer."
Pay no money unless given this kind of a
receipt and never pay agent more than 25c.
No agents are authorized to accept three-
year subscriptions or subscriptions to any
other publication. All three-year subscrip-
tions should be mailed direct to our office
at 542 So. Dearborn St., Chicago, Ill.

Look at the address on your wrapper
upon receipt of the first issue after sub-
scribing. See that it is absolutely correct
and notify us of any mistake, no matter
how slight. Note the expiration date which
appears thereon, and renew your subscrip-
tion before the expiration date.

65,000 American Poultry Journals for
September, 1916.

State of Illinois, County of Cook, ss.:

G. M. Atwell, president of the Atwell
Printing House, Chicago, being duly sworn,
certifies that the American Poultry Journal
has contracted for printing and binding
65,000 copies of the September, 1916, issue.
G. M. ATWELL.

Subscribed and sworn to before me this
18th day of August, 1916.

(SEAL)

ALICE A. SHEHAN

Notary Public.



IN THE DISCUSSION of separate breed
standards, it has been urged that such
books will result in supplying a de-
mand for a standard of one breed
only, for those breeders and novices
who desire information on that breed
alone and do not care to learn the
required characteristics of other
breeds. Without intent to reopen the

discussion, or to question the so-called demand, we
think that the man who studies only the standard
characters of his chosen breed, and neglects to com-
pare his favorites with other breeds and varieties,
will never make very great progress as a breeder.
We really learn most things in this world by com-
parison, we must have intelligent comparison in
order to really know, and fix our knowledge of a
subject.

The medical student, in order that he may become
really proficient in his study of human anatomy,
takes a course in comparative anatomy. His studies
in embryology are made by comparison of various
forms of embryonic life. The physician uses com-
parative tables in his study of health and disease.
The veterinary student takes a course in human
anatomy along with his study of the comparative
anatomy of the domesticated animals. Everywhere
we find that the human mind learns best, and best
retains what it learns, where the study is made
comparative. Attempt to learn without comparison
results in a one-sided viewpoint and in a confusion
or jumble of ideas, or, at best, an indefinite under-
standing.

Watch the specialist fancier in the show room
and you will find—altho the successful specialist has

already compared his favorites with other varieties
—that he spends quite a little time in sizing up the
exhibits in classes other than his own and in noting
progress in other breeds,—whether he knows it to
be so or not, he finds some degree of comparison
necessary to a more complete understanding of his
special variety. If you care to make inquiry, you
will usually find that the successful specialist—be-
fore he fixed on one variety—was a breeder of
several breeds and varieties. Consciously or un-
consciously, the human mind and vision must have
comparison in order to learn and see intelligently.
Think that over, when you are considering the
study of your breed by its separate standard only
and without comparison with other breed standards.

That we may better understand the time in which
we live, we study history for comparison. In every-
thing we think, say, or do, we must compare and
qualify. If we are to become proficient as fancier-
breeders of poultry, we will compare the character-
istics of our favorite variety with those of other
varieties,—our interest and study will not be limited
to one breed alone. We need a written standard
of ALL KNOWN breeds and varieties of poultry—a
comparative standard, prepared in such form that
we can easily and readily compare the characters
of several varieties — not "officially recognized"
breeds only, that are confined wholly to separate
specialty chapters.

This being our view of the subject, we were much
pleased to find—on a recent visit to Washington,
D. C.—that George M. Rommel, Chief of Animal
Husbandry Division, Bureau of Animal Industry,
United States Department of Agriculture, has al-
ready prepared a comparative study of the standard

of some of the leading popular breeds which the U. S. Government desires to use for instruction of Department agents. This comparative standard,—we think it entitled to be called that—is compiled from the American Poultry Association American Standard of Perfection for 1915, is made up of 36 typewritten pages and entitled "Characteristics of Some Popular Breeds of Poultry." We understand that a copy of this comparative standard was sent to the American Poultry Association some time ago, together with suggestions that the American Poultry Association co-operate with Uncle Sam's poultry investigations for the benefit of poultry interests. We believe that the matter was turned over to a prominent member of the committee on standards, but we are still waiting to learn what will be done about it. To us, this plan for presenting the characteristics of the popular breeds in convenient form for intelligent study and comparison, seems well worth while and a progressive step. We believe the standard committee would make a decided hit with students of poultry culture by adopting the plan and publishing such comparative tables.

The tables for comparing the several breeds use the standard descriptions of various sections, and, in breeds like the Plymouth Rock, Wyandotte, Rhode Island Red, Orpington and Leghorn, group and compare characteristics in shape of head, beak, eyes, comb, wattles and ear-lobes, neck, wings, back, tail, breast body and fluff, legs and toes; and in color, the varieties are compared. Altho the five breeds mentioned are included all thru the comparative tables, for illustration here we will quote only one section for three breeds to show the reader the method employed. It is a good plan and worth developing. Below is given the comparative study of Plymouth Rocks, Wyandottes and Leghorns under the heading:

BODY AND FLUFF.

PLYMOUTH ROCK.

MALE.

Body, rather long, broad, deep, full, straight, extending well forward, connecting with breast so as to make no break in outline; fluff, moderately full.

FEMALE.

Body, rather long, moderately deep, full, straight from front to rear and extending well forward, connected with the breast so as to make no break in outline; fluff, full, of medium length.

WYANDOTTE.

Body, moderately short, deep round; fluff, full-feathered, well rounded.

Body, moderately short, deep, round; fluff, full-feathered, well rounded.

LEGHORN.

Body, of moderate length and fairly deep, carried nearly horizontal but sloping very slightly down from front to rear; fluff short.

Body, moderately long, fairly deep, carried nearly horizontal but sloping very slightly downward from front to rear; fluff, rather short.

We will not trespass further upon the standard or space by quoting more, as we believe that the above will suffice to indicate what can be done and should be done. If our standard makers will adopt this idea and develop it as it should be developed, we believe it will lead to a better wording of standard descriptions and make the standard more useful, more helpful and more easily understood by both beginner and veteran in poultry culture. To us it seems well worth while and decidedly "worthy of a thought."

(NOTE.—At the Cleveland Convention this matter of the "Comparative Standard" was brought up by Secretary Campbell, who read a letter from the Bureau of Animal Industry, U. S. Dept. of Agriculture, requesting co-operation and expressing a desire to use the compilation mentioned in instruction of Department Agents and in the work of Poultry Investigations. Unfortunately we were not in the hall at the time this matter came up, but from report of our representative we believe that the delegates present did not fully appreciate the importance of this work or understand just what the Department of Agriculture

proposes and desires to accomplish. The Convention voted to refer the matter to the Standard Revision Committee. We hope that the committee will see the importance of the "Comparative Standard" and of having our "Uncle Sam" co-operate in the work and that some progressive action will be taken by the Association thru its committee at an early date.—P. T. W.)



IN TALKING WITH MEMBERS at the Cleveland Convention of the American Poultry Association, we found that there is a very strong sentiment for the progressive reorganization of the Association along modern business lines. The old plan of \$10 life memberships was well enough forty years ago, and in the early years of the organization, but times have changed and to be successful and progressive an association must meet changed conditions and come up to date. A good many new members have been added of late years who simply pay the \$10, become life members and then show no further activity. To be an effective organization any such body must have membership fees that are sufficient to sustain that body. An international organization, like the American Poultry Association, cannot live and continue to do business on a \$10 life membership basis. Neither is it practical or business-like for such an association to attempt to secure its revenue by entering into the general publishing business. In fact, any attempt of so loosely organized a body to secure the larger proportion of its funds thru a publishing or other general business is liable to prove disastrous in the final accounting.

It has been suggested by many members that the life membership fee be considerably increased to a sum that is practical and businesslike. That those who do not, for any reason, desire to pay an increased life membership fee be given an opportunity to pay a reasonable and fair assessment of annual dues. This is a practical proposal and could be readily accomplished. Any persons who are now \$10 life members, who are opposed to the plan, who do not feel that they could afford such an advance, or who do not have the good of the organization sufficiently at heart to co-operate in such an advance, could be carried thru life on the \$10 membership that they have already paid. We believe that the number of members who would really oppose such a progressive change and who would decline—for any reason—to cheerfully meet the advance in fees and dues would be very small. The plan would apply to all members having sufficient interest to co-operate and to all new members who come in after such change in laws may be made.

It is argued that possibly such a change might keep out of the Association some prospective members who could not pay such dues. We believe that the number so kept out of the American Poultry Association would be exceedingly small and that provision can be made that they can easily be identified with and have representation in the international organization thru the State and Provincial Associations. Those unable or unwilling to join the American Poultry Association under such a plan could become members of County, State and Provincial Poultry Associations having low priced annual dues and provision could be made for such associations to have membership and representation in the American Poultry Association thru delegates proportionate to the number of members in the small local or State or Provincial organiza-

tion. Several plans have been proposed for such reorganization of the American Poultry Association along modern business lines and we hope to see them bear fruit at an early date. Personally we would favor a \$50 life membership fee for the American Poultry Association, with the alternative of annual dues of \$5, and we would cheerfully welcome such a change for the good of our international organization. It would probably necessitate some changes in the present methods of governing the parent body, but we believe that such changes would be in the line of real progress.

Using Advertising.

ARE you really *using* the results you get from your advertising? Do you make the most of the opportunities that it brings? Or, do you simply buy and fill advertising space, and let it go at that?

A while ago a prominent poultry specialist told us that his advertising made him a lot of trouble but made very few sales. He said that he got a great many inquiries, "*too many*" since they caused him to "*waste postage and printed matter*," but out of these many inquiries he made "*very few sales*." When we inquired into his selling methods, we found that he "never uses" personal "follow up letters" and that he doesn't believe in soliciting business by personal letters. He simply mails a catalog and circular to each inquirer and on rare occasions writes a brief personal letter to the prospective customer when the query seems to demand it.

How can anyone expect to do modern business in that manner? While some sales are made direct from advertising, most sales are made by *personal cor-*

respondence with the prospect. One advertiser, who uses a follow up system, told us that he made the majority of his sales, and some of his biggest ones, on the *third* letter,—he uses three "follow ups," if necessary, after the initial reply to the query. An advertisement is pulling well when it brings queries to the advertiser; it is up to the advertiser to turn those query prospects into actual customers. The store merchant does not sell to every prospect who enters the store to look and ask questions, but if he is a good salesman, or employs good salesmen, he does not let those prospects stand around and look without paying them considerate attention. He makes an effort to sell them goods and his business is in proportion to his ability as a salesman.

The poultry breeder's business is a mail order business and in such a business attractive printed matter, good circulars or a good catalog are helps, but selling live stock is essentially a personal

TO OUR READERS.

Our subscribers are our friends and we use every effort to protect them in every way. We believe that every advertisement in this issue is signed by trustworthy people, and to prove our faith we will make good to our subscribers any loss sustained by virtue of their having purchased fowls or goods from one of our display advertisers.

All we ask is, that in ordering the fowls or goods, you mention to the advertiser that you saw the ad in American Poultry Journal; also that the purchase be made during the month or months in which the ad is inserted, and in case of loss notify us of the fraudulent misrepresentation of the advertiser, giving us full particulars as soon as it occurs. In all cases in writing to advertisers say, "I saw your ad in American Poultry Journal."

business and correspondence promptly handled, with due regard to giving it an element of real individual personal interest, is essential to getting best results. From our viewpoint it would seem that many advertisers are failing to make best use of the results their advertising brings. The following extracts from a letter from a New England reader illustrates the point we wish to drive home:

Mr. Editor:

I have had some experience with prominent advertisers in poultry publications which leads me to think that many breeders of poultry are more expert at breeding than in selling their product. For instance:

I decided to buy 500 baby chicks of a certain breed. Last February I wrote to a prominent advertiser for price on 500 chicks for March delivery. After waiting fourteen days I wrote a second time, with no results from either letter. Then I wrote to other advertisers, who replied promptly, and I placed my order. The first mentioned advertiser finally answered my letter *thirty-five days after I wrote it* and solicited my order.

I wanted to buy a brooder and after looking thru the paper I selected an advertiser who uses large space. I received a prompt reply to my inquiry for prices and descriptive matter, but I was informed that my inquiry had been referred to their local agent, who would be pleased to attend to my wants. A week elapsed and then I got a letter from a man who lives in the country about 15 miles from my place, stating that he was agent for this firm's goods and if I wanted a brooder and would come out to his place, he would be pleased to show me one in operation. I had no time to travel 15 miles to look at a brooder, so I ordered one from another firm who had sent descriptive catalog and promised to ship direct and promptly.

Deciding to build a poultry house, I answered several ads, and from some firms received prompt and complete replies and information. One advertiser, who offered a sample of material and a plan for a dime, did not reply and I received nothing. I wonder why such men spend good money for advertising when they do not answer queries?

Some advertisers take care of an inquiry in splendid shape—others do the opposite. Possibly these others are men who say "advertising does not pay."

I do not care to mention names and I have no bone to pick with anyone, for my wants were supplied by some enterprising men who know how to answer an inquiry and how to make sales, but the other fellows lost sales that they might have had and the fault was their own. I expect to be in the market this fall for stock, houses and equipment, and my orders will go to the advertisers who make prompt replies, who answer my queries and who are sufficiently enterprising to try to make sales.

PROSPECT.

It hardly seems necessary to say more. "Prospect" in his letter has pointed out reasons why some advertisers do not make sales. Anything worth having is worth an effort. If business is worth while it is worth going after and the way to make advertising pay is to go after your prospects—all of them—and keep after them in an effort to have them buy whatever you have to sell. Your ad in this JOURNAL brings the prospect—the inquirer's letter—to your place of business; it is up to you to interest him in your goods or stock, to answer his questions promptly and convincingly and, thru your salesmanship, a square deal, and generous treatment, to make a permanent customer of him. One good sale creates another. One neglected prospect turns dozens of other prospects aside. Make use of the results from your advertising.

RED SUSSEX

bird you buy that is not satisfactory can be returned at my expense. F. L. PLATT, SWANTON, O.

On August 1st, the first of my March hatched cockerels reached Standard weight, 7½ pounds. I have the best in color and shape that I ever had. Remember the Sussex for eggs and meat. Write now, and any



A Record Unequaled

is something to be proud of. I doubt if any strain of fowls has won as many prizes in all sections of America as has

U. R. FISHEL'S W. Plym. Rocks

at Six International Expositions, Ten State Expositions, East, North, South and West. At the leading Poultry Exhibitions the best prizes were won by Fishel's White Plymouth Rocks. 120 acres devoted to the production of White Plymouth Rock Poultry.

EXHIBITION BIRDS, SELECTED
BREEDERS and UTILITY FOWLS

at prices that will interest you. Write me your wants, please. EGGS FOR HATCHING.

U. R. Fishel, Box A, Hope, Ind.



Fashion Plate Buffs

Buy this Strain to make sure your wins and profit by this trap-nested, line-bred blood to improve your flock. Cockerels and pullets in good finish and the best line of cocks and hens ever offered. Send for the *Fashion Plate Book* and read the record of our Buff Orpingtons—free.

A. E. MARTZ, BUFF ORPINGTON SPECIALIST
AND JUDGE

Box A, ARCADIA, IND.

Individuality.

INDIVIDUALITY is the state or quality of being individual, separate or distinct; the possession of individual or distinctive character,—in short, possession of personality. How much individuality do you possess? Are you really a separate and distinct individual or just a plain human sheep? It is decidedly pleasant to meet and know people who possess welcome individuality and whose definite oneness gives to them the magnetism of real personality.

Recently, waiting for a train in a crowded metropolitan railroad station, we had the inclination and an abundant opportunity to observe several thousand hurrying humans of all degrees and walks in life. Aside from a difference in carriage or walk there seemed to be little noticeable individuality among the men; all wore conventional and uncomfortable clothing of the same or a similar type—there was nearly as much sameness to these males of the species as one would find in a flock of sheep.

With the women it was different. Tho there may have been deference shown to the prevailing mode of Dame Fashion, it wasn't noted by a mere man like the observer. What we did note was that every hat seemed different, every gown seemed to emphasize the individuality of the wearer, and, strange as it may seem, those feminine garments looked a great deal more comfortable on such a hot day than did the conventional masculine, unyielding hat, stiff collar and cuffs, the tie with a strangle hold, and warm coat and trousers, as much of a sameness as peas from a pod. We wonder if the female of the species does possess more individuality than the male; or is she gifted with greater power of expression and the sense to use it?

A New Article Contest.

ATTENTION, READER! Here is a new article contest that should interest you—a subject that can be made interesting to all and a prize well worth competing for.

M. C. Wilson, Oil City, Pennsylvania, offers a Show Pen of his "beauty and business" Rose Comb White Leghorns to the reader of **AMERICAN POULTRY JOURNAL** who submits the best article on the following subject:

"Why all International Egg Laying Contests should award the prizes to the hens laying the *most pounds of eggs*, instead of the largest number of eggs."

This contest is open to all who read this journal. Articles should be about 1,000 words long and written on one side of paper only. Announcement of winner will be made in November issue. We reserve the right to publish or reject any or all articles and no articles will be returned.

The contest will close October 2nd. All articles must be in our hands by that date or show a postmark not later than September 30, 1916. The award will be made by the editorial staff of **AMERICAN POULTRY JOURNAL**.

Send all articles to Dr. Prince T. Woods, Editor **AMERICAN POULTRY**

**Rose and Single Comb
R.I. REDS
SPECKLED AND RED
SUSSEX**

JOURNAL, L. Box 4, Silver Lake, Mass. Do not delay, start your article now and see how good you can make it.

Fresh Air.

EVERY time we ride on a railroad train or enter a stuffy, smelly theatre, we wonder how the long-suffering public can stand it, and wonder more just how much disease such suffocating and foul air conditions are responsible for.

Theatre managers are waking up and becoming alive to the fact that poisonous air is bad for their business, and some have installed a makeshift apparatus, more or less elaborate, for providing a better air supply. It seems likely that in the near future places of public amusement will be well ventilated and will get a daily airing and sunning to sweeten them,—let us hope so, for humanity's sake. Even jails, now-a-days, are beginning to recognize the right of prisoners to a free supply of fresh air to breathe.

But the modern railroad coach, where people sweat and steam in a super-heated atmosphere, wearing outdoor clothing, is about the most ill ventilated, suffocating, disease-breeding, plague spot that was ever inflicted on mankind. You pay a big price to occupy hot, uncomfortable, insanitary, back-breaking seats in a roasting contrivance of steel and wood, that jolts while it bakes, and that is never under any circumstances adequately supplied with air for the contained passengers. Generally the windows will not open, but if they do, you can count on being pelted with cinders and sooted with smoke; comfort of passengers is the very last thing considered—if considered at all—by the Twentieth Century railroad. In summer, you can travel with comfort, and breathe freely, in a modern automobile; you can secure fresh air and a moderate degree of comfort in the open trolley car, but on a railroad train you sit uncomfortably, swelter and suffocate and absorb the germs of all known and some unknown diseases, all on payment of a very extortionate price for the accommodation received.

Just why it is that railroad coaches cannot be made reasonably comfortable, well-ventilated and sanitary, is a matter that is difficult to understand. Possibly the public is to blame for not demanding better accommodations. Possibly some of the over timid ones, who fear drafts—that bugbear of superstition—are to blame for the tight shut carriages. But

Smith's White Leghorns

Are the Most Consistent Winners in America. Catalog telling all about them sent upon request. Eugene C. Smith, 317 Galena Blvd., Aurora, Ill.

Barred Plymouth Rocks

Lady Beautiful Strain. Wonderful records have been established by my birds at *Madison Square Garden, Philadelphia and Hagerstown.* This record includes many first and other prizes. **Eggs for Hatching from these winners** at reasonable prices. Now is the time to buy. Satisfaction guaranteed. Mention **American Poultry Journal**.


C. N. MYERS - Box E - HANOVER, PENNSYLVANIA

Do You Wish to Win? Our February youngsters are wonderfully strong and large and *what quality* our Chicago Coliseum winners have produced. We invite you to visit us and see the wonderful color and type we have this year. If you cannot visit us, get our terms *before buying* which *saves you* from taking any risk whatsoever by mail. Our customers were among the big winners this season.

A. A. CARVER, Specialty Breeder - SEVILLE, OHIO

POORMAN'S
200 EGG STRAINS

THE
WORLD'S
BEST
LAYERS



TRAP
NESTED
200 EGG
STRAIN

"Lady Alfarata," 301 Eggs

Stock, Eggs, Baby Chicks

From My Improved
Laying Strains of

S. C. and R. C.
Rhode Island Reds
White and Barred
Plymouth Rocks
White and Buff
Orpingtons
White Wyandottes
White Leghorns

and your careful attention means your success. This is your opportunity to procure a start from strains that have given entire satisfaction to over 4,500 customers in this and foreign countries.

Stock Sale

In all my breeds I have some exceptionally good breeders (hens and cocks) to offer for the first time. It is the stock that has produced the eggs and chicks for over 4,500 satisfied customers. My regular prices are very reasonable. This gives you the opportunity of buying real layers, a foundation for future success. I have some very good cockerels and pullets growing nicely. You may want some of them. Advise me of your wants. I will be pleased to quote you prices on same for early fall delivery. Do not overlook the advantage of booking your order now. It means a reserved selection and mutual benefits.

Write for my instructive illustrated catalog. It has helped others and will undoubtedly help you.

JOHN G. POORMAN
Box 100
Tinley Park, Illinois, U. S. A.

it does seem that even director-milked, much-abused and bankrupt railroads might at least provide cinder-proof window screens in all passenger cars and windows that will open and stay open.

There is a good deal of humbug about drafts causing people to "catch cold." It is an old superstition and many folks fear drafts with a fear that is akin to panic. The fear is the thing that is largely responsible for the catching cold; that and foul air. Foul, shut-in air of public conveyances, is poisonous air and it is what causes one to catch cold. Some day it will be as much a crime to compel people to breathe poisonous air as it would be to give them poisoned food. Do not be afraid of a good substantial draft of fresh air—welcome it and breathe deeply. Get plenty of good fresh air into your lungs and you will not catch cold. Breathe deeply. A draft of cold air in an over-hot public conveyance may chill you, if you have been foolish enough to sit and swelter in outdoor wraps, but it is not liable to chill you if you breathe deeply and wear sensible clothing sensibly. Don't be afraid of fresh air! Insist on getting it! Don't sit in the breeze of an electric fan in a closed ill-ventilated room or car—the fan is simply stirring up dead air, dust and germs—look at the fan's air current in a ray of sunshine and see for yourself what you are forced to breathe. If you do fear fresh air, try to overcome such foolishness, and do not let your fear of fresh air and the draft bogey cause you to interfere with the comfort of others and make you in part responsible for a foul air menace to health.

A. A. Peters for American Poultry Association President.

A MAN'S past record is a reliable signboard to his future. When an association has had the opportunity to

LEITNER'S S. C. BUFF LEGHORNS

Eggs are half price now. They are the real layers and winners. Satisfaction guaranteed. Circular free. C. H. LEITNER R. F. D. 4, Box 8 ELGIN, ILL.

study a man's qualifications for the presidency by watching him at close range as vice-president and acting president for three or four years and can express only words of praise for the fairness, dignity and ability with which he graces the office, it should not be found difficult to elect such a man to the presidency.

Arthur A. Peters, of Denver, Colo., has served the American Poultry Association as its vice-president for four years and during a great part of this time as its presiding officer. Mr. Peters now announces his candidacy for President of the association. No man in it is better fitted for the office or is more deserving of the honor.

Thru the nomination ballots of the last three elections of the association, many members have expressed a desire that Mr. Peters become a candidate for President of the American Poultry Association and his many friends will be glad to learn that he has now entered the field.

At the Cleveland Convention, Mr. Peters expressed his appreciation to those in attendance for the courteous manner in which the rulings of the chair were received thruout the convention, no question having been raised as to the chair's decision in any matter coming before the convention. Mr. Peters in announcing his candidacy quotes Abraham Lincoln as saying, "In lieu of a written platform, a man's past record for efficiency in action should be considered his platform."

Mr. Peters has shown himself during his term of office to be a man in every way worthy of the support of the members of the association. His record is a good one and a credit to the association. Vote for him when the time comes and in the meantime speak a good word for him to your friends.

Poultry Publishers' Association.

DURING the Cleveland Convention of the American Poultry Association, a Poultry Publishers' Association, for

the advancement of poultry interests and co-operation among poultry publishers was organized. Some thirty publications in all sections of the United States and Canada were represented. The following officers were elected: President, James W. Bell; 1st Vice-President, Henry P. Schwab; 2nd Vice-President, F. E. Harries; Secretary-Treasurer, J. A. Kohl; Executive Committee, E. E. Althouse, D. E. Hale, Grant M. Curtis.

Our Cover.

THE beautiful Buff Orpington adorning our cover this month is the property of Maurice Delano (Owen Farms, Vineyard Haven, Mass.) When we handled this bird at the last Madison Square Garden show we looked him over very carefully and believe he typifies very closely the desires of the American fanciers regarding the shape and color of the breed. The even shade of color blending perfectly in all sections is very much in evidence in the picture, which shows the bird exactly as he appeared at the show, and where he was one of the winners.—L. A. S.

McCONNELL'S S. C. B. Minorcas

America's most famous trap-nested egg-producing and exhibition strain.

Winners at America's Largest Shows. Breeding and exhibition stock for sale. New sales list out June 15th.

J. V. McCONNELL
Box A Garden Grove, Cal., U. S. A.

HENDERSON STRAIN

Barred Plym. Rocks

Have won at the leading shows of America for the last 20 years. If you want WINNERS get the Henderson Strain. Eggs from 40 pens containing the greatest Barred Rock breeders in America.

Free catalog.

W. W. HENDERSON Bridgeton, Mo.



"REGAL QUEEN"
First Boston Hen, 1913

The Early Bird

ALL over the country beginning with early September, large fairs are held. The poultry exhibits are always of great interest to the crowds and the attendance at these fairs is five to ten times as great as at the regular winter poultry shows. If you are not in shape to make an exhibit why not let me fit you out with a string. Early chicks are scarce but I make it my business to have plenty of them. As a business proposition you cannot afford to overlook this opportunity. A good winning will bring you plenty of orders for stock and eggs. Nothing will attract prospective buyers more than fine, well matured cockerels and pullets at the early shows. That I can furnish you with the necessary quality is shown by my own winnings at the New York State Fair, covering a period of ten years. While I get out a large number, yet my supply is not unlimited and you should have your birds reserved early. As a rule prices do not range as high as they do for the winter show winners.

Fine show cockerels range in price from \$10.00 to \$25.00, and pullets from \$8.00 to \$20.00. Exhibition pens \$25.00 to \$75.00.

FREE—Send for catalog and summer sale list, giving description of several hundred breeders I am offering for sale. Send one dime for Regal White Wyandotte Book telling all about White Wyandottes.

John S. Martin Box 51 Port Dover, Can.

Dr. Woods' Notes and Comment

SEPTEMBER.

O sweet September, thy first breezes bring
The dry leaf's rustle and the squirrel's laughter,
The cool fresh air whence health and vigor spring
And promise of exceeding joy hereafter.
—George Arnold.

Early pullets, intended for winter layers, should be housed in winter quarters this month.

* * *

Be sure that the houses and yards are clean and in good order. If runs were planted to greens last month there should be a fair supply to start the newly housed birds.

* * *

In housing, do not crowd the pullets, see that they have abundant yard room, do not close them up too snugly in the houses at night. Open-front, open-air quarters are best. If the pullets when on range were properly managed, they have been having the regular laying ration for some time. If they have not had it, do not make an abrupt change in ration, make the change a gradual one. Feed an abundance of greens.

* * *

Fall colds in young stock are caused by too close, poorly ventilated sleeping quarters and by crowding. Use open-front houses. Train the youngsters to use the roosts, if necessary; do not permit them to bunch up in little groups to sleep on the floor. Colds sometimes follow crowding on the floor at night. With good housing, good care and good feeding, fall colds can be prevented. Just keep the birds comfortable.

* * *

Market the culls. Be sure that only strong, healthy, vigorous specimens are put into winter quarters. It never pays to hold on to weaklings. A clean bill of health, sound constitutional vigor and an abundance of vitality are essentials for young or old stock, whether kept for laying or for breeding. Winter only the best healthy specimens and keep them healthy by good care and management.

* * *

Have the vegetable cellar in readiness to store away a good supply for winter use. Cabbages, beets, mangels, white carrots, squash, pumpkins, and potatoes are all good for winter poultry feeding and are easily kept.

* * *

Cull or waste apples make excellent winter food for poultry. Frequently they can be obtained without cost other than the trouble of picking and carting. They feed to best advantage when boiled and mixed with the moist mash.

* * *

Cabbage is an excellent fall food for poultry of all ages. In fact, we believe that cabbage is a better fall food than it is a winter food. Waste cabbage should be fed freely at this season. Later on, when cabbage is fed, do not use any that has been frozen. Frozen cabbage, or frozen roots like beets or mangels, are liable to cause indigestion or bowel trouble and so check laying.

* * *

Be sure to cremate all dead fowl or chickens. If buried they are liable to be dug up by dogs or foxes and the remains scattered about the premises. If

the carcasses are burned, that disposes of all danger of disease from that source: if the remains are permitted to be scattered about, there is always a chance that infection may result.

* * *

Sometimes fall colds will occur in young stock, in spite of good care. If taken when the sneezing first starts, the following remedy is usually effective:



UNCLE SAM'S WORKERS FOR MORE AND BETTER POULTRY.

The above portrait group of the men who are in charge of the Poultry Investigations of the Bureau of Animal Industry, United States Department of Agriculture, and who are promoting Girls' and Boys' Poultry Clubs thruout the country and making the Government Poultry Farm experimental work of great value to all poultry interests, was taken at the request of the Editor of American Poultry Journal in July, 1916, at Washington, D. C. In the front row, from left to right, are: George M. Rommel, Chief of Animal Husbandry Division, Bureau of Animal Industry, and Harry M. Lamont, Senior Animal Husbandman in charge of Poultry Investigations. In the second row, from left to right, are: Alfred R. Lee, Animal Husbandman in Poultry Investigations; Robert R. Slocum, Assistant in Poultry Investigations, and Joseph W. Kinghorn, Junior Animal Husbandman in Poultry Investigations.

In White Rocks

You Can't Beat

HALBACH'S

The unparalleled victory of my birds at the great *Coliseum Chicago Club Show*, December 13-18, 1915, was the final link to the chain of victories that has given them the undisputed championship. *They won every championship.*

1-2-3 Cock
1-2-3-5 Hen
1-3 Young Pen

1-2-3-4-5 Pullet
2-3-4 Cockerel
1-2 Old Pen



GET THE BEST. Write me for Show Birds or Breeders. I'll please you. Large catalog 20 cents. Mention American Poultry Journal.

H. W. HALBACH

::

WATERFORD, WIS.

Mix half a teaspoonful of spirits of camphor with a tablespoonful of sugar and dissolve the whole in two gallons of water, giving the birds no other drink than this for a few days. Camphorated oil or petrolatum rubbed into the nostrils is also an excellent remedy.

Be sure that pullets are leg-banded, for identification, when housed for the winter. Colored celluloid bands are excellent for this purpose, as they are easily noted without need of handling the birds.

Unless the eggs are to be used for hatching purposes, it will be well to house the pullets without any male companions to bother them. Virgin pullets will generally begin laying earlier, will lay better, and will make better develop-

ment than pullets that are being constantly annoyed and nagged by husky male mates.

Michael K. Boyer is opposed to flock matings. He believes that small flocks do best, and says: "Flocks of 100 head should be the limit—fifty would be better. But this is for egg farming only; when it comes to breeding, the flock system is entirely wrong. While there may be good fertility there will not be as good, strong chicks. Breeding pens should vary—according to the breed—from six to fourteen females to a male."

Our experience, and that of many New England poultry keepers, goes contrary to Uncle Mike's quite positive assertion. We have been using flock matings for breeders and layers for a number of years—and with several breeds—

with entirely satisfactory results. We have found—and there are plenty of practical poultrymen whose experience will agree with ours—that flocks of 100 to 150 females, mated to from five to nine males all running together, will, if properly housed and cared for, yield excellent fertility, good hatchability, and fine, large, strong, sturdy chicks. In fact, flock matings are used very largely to produce eggs for hatcheries and for market chicken growers, and in such work the profits depend a good deal upon good hatches; good, strong, large chicks, that will thrive and grow rapidly, and stand the stress of forced feeding without going "off their legs."

Where exhibition excellence is desired in the progeny, then small matings are necessary—in fact, best results will be secured from pairing—but where eggs

Hundreds of Early Hatched

Aldrich White Orpingtons

Ready to Win at the Fall Fairs

OUR early hatched birds are now ready to win at this season's shows, and the quality of our birds this season is better than ever. On account of the increased demand from our many customers, we have reduced our advertising one-half and this enables us to give better values than ever before. If you desire to get your share of the increasing business in the White Orpingtons during the coming season, you should make a good win at an Early Show.

In placing your order for your winners, remember that we are the largest farm in America devoted entirely to breeding the highest quality White Orpingtons and we have devoted our entire time and attention for many years to improve this one breed. With over \$50,000 invested in foundation stock and buildings, no detail is lacking that is necessary to breed the very best quality,

and at the least expense, thus enabling us to furnish our customers high quality at reasonable prices.

Aldrich White Orpingtons have been the largest winners at Madison Square, Chicago and all of America's best shows for years, and at thousands of other shows in all parts of America and Canada our customers have won the most coveted prizes, while their high egg-laying ability has been proven in the National Laying Contests.

Place your order early so we can reserve you a winner. A small deposit at this time will secure your birds and we will sell no one else for your show. Prices of fine Show Cockerels bred from Chicago and Madison Square winners, range from \$10.00 to \$50.00 and Pullets from \$7.50 to \$20.00. Pens, \$25.00 to \$100.00. Utility Cockerels \$5.00 and Pullets \$3.00 each.



FIRST COCK
Chicago Coliseum, 1915

If You Want to Win, Write Now

ALDRICH POULTRY FARM

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COLUMBUS, OHIO



A natural photo. Absolutely not retouched.

SHOW BIRDS GALORE!

More than 2500 Aristocrat Barred Rocks are now growing up into superb, magnificent show birds. The Aristocrats are those wonderful birds which made such a truly

SENSATIONAL SWEEP OF VICTORIES

thruout all America last season—from Brooklyn, N. Y., to San Francisco, and from the great shows of Canada down to the Gulf—capturing FIRST PRIZE at such shows as Chicago, the World's Fair, Philadelphia, Norfolk, and scores of other shows. This is one of the most Victorious Campaigns ever made by any strain in a single season. This great record gives force and power to the thought that

The Aristocrats Are Sure and Guaranteed Winners

Now—I ask you: Do you want to win this Fall or Winter? If so, sit down and write me, and we will make a deal that will safe-guard you absolutely.

W. D. HOLTERMAN, Fancier Box A FORT WAYNE, IND.
P. S.: This season the Aristocrats are even better than last year.



Young's Strain S. C. White Leghorns

I HAVE NO OTHER BREEDS

Acknowledged thruout the world as being the standard of all the Leghorns of all America, and the leaders of heavy layers. Eggs at half price remainder of breeding season. I have hundreds of yearling hens for sale. Why not come to headquarters and get the best. Mating list free.

D. W. YOUNG

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Box E12

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MONROE, N. Y.

Partridge Rocks

AMERICA'S
PROVEN
CHAMPIONS

Bronze Turkeys

Stock and Eggs for sale. Send stamp for Turkey or Chicken catalog giving price of Stock and Eggs and our great Madison Square Garden Prize Record
BIRD BROS. ::: MEYERSDALE, PA.

and meat are the chief consideration and labor saving is necessary in order to show profits, the large flock matings are proving both desirable and satisfactory.

* * *

In handling large flocks, reasonable cleanliness is essential; but the most important consideration, besides good care and good management, is to use only sound healthy specimens and to keep them healthy. We believe, where large flocks have failed to give good results, it will be found that the birds have not been well fed and cared for; that sufficient attention has not been paid to breeding for health, vigor, and vitality; that the culling out of undesirables has not been constantly practised; and that the fault—if any—has not been with the large flock or the flock mating, but was a fault of management or of the manager. Of course, it is essential in any sort of mating that only well-developed, fully-matured specimens should be used for breeding purposes.

* * *

Among the evils that have been charged up to "large flocks" are crowding on the nests, egg eating, feather pulling and comb picking. None of these evils are the result of large flocks, per se, in fact all of these habits occur quite as frequently in small flocks as in large ones—and are chiefly the fault of the poultry keeper. Where a sufficient number of nests are supplied from the start, there is very little crowding on the nests. The worst egg eater we ever saw was in a little flock where there were only four females and a male. Egg eating is easily cured. Simply file—with a fine flat file—the points of the beaks of offenders down to the "quick" and leave a few china nest eggs lying about. The egg eating will stop promptly. It will not start again if you keep the birds busy and well fed, and keep nests clean, gathering eggs often. So-called "incurable" feather-pulling and comb picking are not "incurable" at all, and are preventable bad habits, which result from idleness, lack of exercise, insufficient greens and bad management. These bad habits are quite as common in small flocks as in large ones. The size of the flock has nothing to do with it. Provide plenty of green food, keep the birds supplied with incentive to exercise, keep them comfortable, well-fed and busy, and you will have little trouble. If either feather picking or comb picking starts, it can be checked by prompt action in removing the offender and correcting the fault in management which started the trouble. Usually, if the flock are promptly put out on a good sized out-door range the trouble soon stops. When this is not possible, the use of poultry bits on the offenders will stop the picking and pulling. Bits can be obtained from poultry supply houses, or can be made by fastening a piece of soft wire, of suitable size, in the bird's mouth so that beak cannot be completely closed. Filing the point of beak will usually stop picking and feather pulling. We have never yet had to use a bit. One crowded flock, that had been closely housed for seven months, started feather pulling and had the habit well established before they could be properly attended to. By May first, bare heads, necks and rumps were the rule, rather than the exception, in that flock. We advised putting them out into a pine grove in which there was a little clearing that was showing green grass. By the middle of May the birds were put on this pine grove range, without shelter

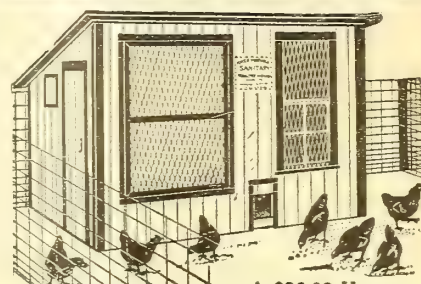
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A \$6.60 Henhouse Outfit

No. 19, Style "A," 6-foot 2-perch, complete Potter henhouse outfit for 36 hens. This same style made in 12 sizes.



A \$36.00 House

No. 5, Style "D," Potter portable open front fresh air, scratch shed house, equipped with No. 17, Style "A," 5-foot 3-perch complete henhouse outfit for 30 hens. Price of complete house, \$36.00. Painted 2 coats.

Big 112-page Catalog FREE

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"Premier" Partridge Wyandottes

For Utility and Beauty. Fine Winter Layers.

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290 EGGS
IN ONE YEAR

Mapleside Bred-To-Lay

Barred Plymouth Rocks

ACKNOWLEDGE NO SUPERIORS AS LAYERS

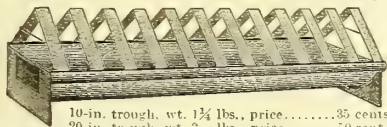
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10-in. trough, wt. 1 1/4 lbs., price.....35 cents
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OAKES MFG. CO., Dept. B, TIPTON, IND.
or 64 Cliff St., New York City

American Dominiques

Bred to lay and bred from birds which won blue ribbons at Boston, 1915, 1916. Write for prices. Mention American Poultry Journal.

C. W. BESSE

JEFFERSON, MAINE

FAHA'S SILVER WYANDOTTES

"The Aristocrats." Better this season than ever before. Choice exhibition birds, selected breeders and utility stock. Write me your wants. Catalog free. Frank Faha, Jr., Box 730, Dyersville, Iowa

LONGFIELD ROSE COMB REDS

The Greatest Chicago Winners. A grand lot of youngsters for sale. About 2000 head to pick from and can suit you in either good breeding or the finest exhibition stock. On approval always. Write us your wants. LONGFIELD POULTRY FARM, Box 321, BLUFFTON, IND.

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Young stock for sale, bred from our Panama Pacific winners. A few choice Pens of year old Breeding stock for sale cheap. GENSEMER BROS., 161 MAIN ST., CRESTON, OHIO

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that won trophy for winning
greatest number of points in
any one class at

PALACE SHOW
New York City, 1915-16

I can sell you
stock just as

GOOD

Write me your wants and
where you expect to exhibit

Exhibition Stock Only

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Anchorage, Kentucky



Licecil
Kills Lice

**Free Folder
Tells How**

Treat your poultry
house or coop with
LICECIL as directed
and kill lice without handling each fowl; vapors
kill insects. Splendid disinfectant and germicide
for poultrymen. Illustrated folder tells experience
of others. Order today and prove it yourself.

Bottle 50c; 3 for \$1.25; Canada, 10c extra.
METZGER MFG. CO. Box 35 QUINCY, ILL.

Palmer's Barred Rocks

Greatest as well as oldest winners in the mid-west
today. If you need early fall winners or want breed-
ing birds at bargain prices write us. We have them
that we **guarantee will please you**. Our records
show that for many years we have supplied the **win-
ners** for nearly every large show in the country
outside of the extreme east. Illustrated catalog free.
D. F. PALMER & SON, Box 35, YORKVILLE, ILL.



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EXCLUSIVELY

Now is the time to buy
your next years breeders.
Ten hens (\$1.50 grade) and
one cockerel for a ten dollar
bill. Get our catalog
and prices before order-
ing elsewhere.

THE ELLIOTT POULTRY FARM
R. 7, Box 87, Mansfield, Ohio

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when writing to advertisers.

of any kind—covered nest boxes were
scattered about the grove—and the birds
roosted in the trees. They were fed
twice a day on a mixture of hard grains
—no mash or beef scrap—and had to
scratch for the balance of their living.
The bad habits stopped at once. The
flock laid splendidly all summer. In the
fall they had moulted out so fine, smooth
and glossy that they looked like pullets,
and selected specimens were housed,
wintered and bred without developing
the bad habits again.

* * *

It seems to us that a good deal of the
dissention, disturbance, and lack of prog-
ress toward more general prosperity in
poultrydom, is due to over-promotion of
selfish interests, too little real fraternal-
ism, lack of friendly co-operation, and
the whole largely born of ignorance,
jealousy and greed. An effort to become
better informed—an educational effort—
efficient co-operation for the interests of
all, rather than to satisfy the greed of a
few, with a good live boost for real
active, constructive team work on the
part of breeders everywhere who have
common interests, would be followed by
an overthrow of "bossism" and better
conditions generally. Why not get to-
gether and work together? Cast out the
greedy ones, if necessary, or if they will
not mend their ways and inject a little
real harmonious co-operation for the
good of the *whole industry*—not one or
two little branch specialties, but *every
poultry interest*. Attempting to do busi-
ness on the "tickle me and I'll tickle
you," or the "scratch my back and I'll
scratch yours" plan is mighty poor busi-
ness policy and it is not good common
sense.

* * *

If you are an employer, or just a
parent, do not be stingy and niggardly
with praise for work well done. When
it seems necessary to find fault,—count
fifty and think it over first. Then make
your correction as moderately as you
are able. Honest praise of worthy ef-
fort will stimulate the one so praised to
still greater effort. A well placed "well
done" or "that's a good job" will often
work better for your interests than
would an increase in wages. Grudging
approval of good work, or harsh criti-
cism of a poor job, will often stir up
ill-feeling that results in less satisfactory
work and time killing. We have seen a
laborer fairly "hump himself" to make
a still better showing, just because a
hearty and cordial "that's a good job"
from his employer. In one such case
the worker said to us, "make me feel so
good, I work like two men all the week."

The story is told of a farmer, who,
when the hired man reported that in
mowing a newly set orchard he had cut
down two trees, said: "Yes, I know that
is a hard place to mow, you did well not
to damage more than those two trees."
And the hired man said: "I'll do better
tomorrow."

A raise in pay, in these days of climb-
ing prices especially, is always a wel-
come event; but well-merited praise of
work well done supplies a wholesome
stimulus that mere money cannot buy.
Criticism when tempered with kindness
and justice is better received and more
effective.

White and Partridge Rocks

Eggs for hatching from World's Fair and Chicago
winners. Prices reasonable. Write at once.
P. J. OLLE - Route 4 - RACINE, WIS.

USE

Liceoff

(The Modern Lice Killer)

As you move your birds to winter quarters
and you will not be bothered with body lice.
One tube (50c delivered) is enough for 200
chickens—order your tube now.
Spray your coops with

Mitesoff

(Liquid Mite Killer) and protect your birds
from mites, the worst enemy of them all. 45c
per quart can, delivered. Agents wanted.
LICEOFF CO. Green Bay, Wis.

GREEN CURED FINE CUT-CLOVER

New Crop. For Fall, Win-
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**Baby Dux and Choice Breeders,
Yearlings and Young.**

Prices Right.

**Baby Chix for Soft Meat Roasters
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EGGS FOR HATCHING

Leghorns, Wyandottes, Rox and Reds;
Pekin and Indian Runners and White
Guineas. 32 years in Poultry Business.
Circular free.

W. R. CURTISS COMPANY
Niagara Farms Ransomville, N. Y.

FALL CHICKS!



Live delivery guaranteed. Sept-
tember and October chicks are
money-makers.

Light Brahmas, Rocks, Wyandottes,
Reds, Minorcas, Anconas, Leghorns
from prize winning flocks 12c
each. No order for fewer than 25. Dis-
count on large orders. Pound size chicks
at \$10 a dozen up, for pullets. Cock-
erels of excellent quality. 6 for \$5.00.
Catalog free. Stamps appreciated.
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**Aluminum C. and Celluloid
Leg Bands**

Six sizes, eight colors. 12 for 15c;
25 for 25c; 50 for 45c; 100 for 65c.
Mention variety. Also **Drinking Fountains and
Feed Hoppers and Automatic Trap Nests**. Get
our catalog before buying.

AUTOMATIC TRAP NEST CO.
475 Wisconsin St. Kenosha, Wis.

WHITE ROCKS

STOCK FOR SALE
MRS. L. R. BUELL, LAKE GENEVA, WIS.

S. C. RHODE ISLAND REDS

Won 1st Pullet, 5th Cockerel, and 5th Cock at Chi-
cago, January 1916. Young and old stock for sale.
M. C. Davis, Haywood Road Woodstock, Ill.

REGAL RED FARM

Reds are ready for fairs and early shows. Prices
right and first class stock. 500 to select from; do not
wait. Order now if you want Regal Reds. Shipped
on approval. G. H. SHOENHARD, Box 17, FREEPORT, ILL.

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Now is the time to place your orders for early 1917
deliveries. Catalog and price list free.
20th CENTURY HATCHERY, Box 17, New Washington, Ohio

S. C. White Leghorns

Exhibition and Utility Stock for sale. Meadow Lark
Farm, J. W. Taft, Prop., R. F. D. 3, Elgin, Illinois.

Red and Speckled Sussex Silver Wyandottes

Stock for sale at all times. Eggs in season.
A. & E. TARBOX Box A, Yorkville, Ill.

MOLTING HENS

SHOULD HAVE
PURINA CHICKEN CHOWDER

Horticulture for Poultry Keepers

Conducted by Thos. F. Rigg, Iowa Falls, Iowa.



NINETY-SIX DEGREES on my east porch at eight A. M. That is the recorded temperature as I sit down to write these lines. We have had excessively hot weather for more than a month, and a lack of rain. While some of the growing things have suffered, we have kept about everything feeling and looking and doing well by constant cultivation. The corn was in danger of "firing" for several days, but is now all right, and if we get a big fill, will be a very big crop.

While the fruit trees and berry bushes have not made as much growth as usual, they are all right and will go into winter with good ripe wood. I believe the strawberries will be better next season because of the check in growth this summer. I know this is contrary to the teachings of the wise men, but it has been my experience thruout a series of years.

This month is the time to plant currant and gooseberry cuttings. This, too, is contrary to the teachings of most of the wise men. They tell us to wait until late fall, tie the cuttings in bundles and put them in the ground, setting out the cuttings in the spring. But don't do it. Make the cuttings *now*. Take wood of this season's growth, but so there will be two buds which may be placed beneath the surface of the ground, and one or two buds above the ground. Plant them in a sheltered trench in good soil in the garden. Place the cuttings about six inches apart. Be sure to firm the ground well. In fact, pack the ground at the base of the cuttings. *This is the secret of success. I take a two by four piece of timber and a cross handle, and pack the soil in the trench as hard as possible. Then fill the trench, but do not pack the surface soil. When the ground freezes, mulch the cuttings. By next fall the bushes will be more than a foot high and nicely branched. Then they are ready to be planted where wanted. In two years they will be in bearing.

* * *

The worker bees are now killing the drones and it is a merciless slaughter that is going on down in the bee yard. Two or three bees pounce upon a drone and tear off his legs and wings and head. There is no sentiment in the bee household. He who cannot or will not contribute to the support of the family is immediately put to death. The drones have served their purpose and now must die. And it is not a bad philosophy. There is no nursing of weaklings, only the strong being permitted to live and

bring young into the world. I think the basic ground of bee society is a better one than that of the human family.

* * *

Pursuant to a call issued several months ago, a large number of fruit growers recently assembled at St. Louis and organized the National Commercial Apple Growers' Association.

This Association is not intended as a horticultural society for the discussion of theoretical or cultural subjects, nomenclature, etc., but it is a business proposition for business men engaged in the business of apple growing. The National Commercial Apple Growers' Association does and will include the fore-



First Golden Wyandotte cock and champion male, San Francisco, Cal., November, 1915. Bred and owned by J. S. Pennington, Plainfield, Illinois.

most apple growers of the country, as letters and reports from every section indicate that progressive growers are willing and anxious to join in bettering this nation-wide movement. The organization of this Association came as a necessity. Generally, the past season was unsatisfactory to a majority of commercial growers. The lack of unity, poor quality apples and the attendant low prices broke the market early. It is to avoid a repetition of these conditions that this Association was formed. The future plans of the Association and its benefit to the members will have the same cause and effect when compared to the past, as that of a large, leaderless, undirected crowd to the trained, well-directed army. Team work, efficient cooperation of the united whole is our purpose, and as long as growers, in their present disorganized state, represent the leaderless crowd, then just that long will they be imposed upon from every source. The time is ripe for the organization of this Association, and the time is now for every reliable commercial apple grower who is looking to the future welfare of his own business, and the apple industry in general, to join hands and make it a SUCCESS from the very start.

In brief, the apple growers who will become members will have a permanent official organization, which undoubtedly will become a strong force that will be recognized by apple buyers and every other interest that may be connected with the handling of apple crops. The members of this organization instead of being at the mercy of unscrupulous interests, will have a strong, forceful association, which will insure a square deal to everyone.

P. C. Stark, of Louisiana, Mo., for some time has been at work on plans for the organization of such an association. No man in all America knows the needs of the apple producers of the country quite so well as does P. C. Stark, and I think we all owe him much for his life work in our interest. I hope every apple producer in the country will become identified as a member of this association. Send your membership application to H. C. Irish, 1227 Childress Avenue, St. Louis, Mo.

* * *

I have always read your articles in American Poultry Journal with great interest and find them very helpful. Now I would like to ask, do you consider the Kickapoo Valley in Crawford Co., Wis., a good fruit growing section, also what do you think of their proposition to investors? The proposition offered is this: first, a charge of fifty dollars per acre for trees, preparation of soil and planting; second, a charge of thirty dollars per year per acre for a period of eight years, for pruning, spraying and supervision; third, a charge of one hundred and fifty dollars per acre for land. This to be taken from one-half of the fruit crop when trees start to bear. Now, this seems to me to be rather a one-sided contract in favor of the Association. I may be mistaken, but I would like to own an orchard and care for it myself, but lack the capital. I will be very thankful for any information you can give me on the subject. Am sending herewith one of the Association booklets, so that you may be better able to judge in the matter.

Wisconsin.

Edward E. Krause.

I know nothing as to the financial standing of this company. The district in which they are operating is a fairly good fruit district. I agree with my correspondent that it appears that this is "a rather one-sided proposition in favor of the company." I strongly advise all readers of the AMERICAN POULTRY JOURNAL to leave an orchard proposition of this kind severely alone, because they can do much better for themselves by going into any of the tried and known fruit sections, near the great markets of the country, and buying land outright, doing their own planting, etc.

Smith's S. C. Buff Leghorns

I Have No Other Breeds

The Largest Breeder
of Buffs in the World

Winners at fifteen of the big shows and the world's best winter layers. I have nearly 8000 young birds for sale. I can please you and sell you cheaper than small breeders with small flocks.

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Box C and D Hamilton, Ohio

Grow your own Vegetables
Cut down living expenses. Easy to save time, labor, and money by using

Planet Jr Garden Tools
This No. 16 Planet Jr will do all the cultivation in your garden in the easiest, quickest and best way. Light but strong. Can be used by man, woman or boy.

New 72-page catalog free. Write
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Winners

Madison Sq., 1916

My Rose Comb Brown pullets of 1915 breeding were never beaten, winning firsts and seconds in Allentown, Philadelphia and Madison Square. Also first and second hens. Eight firsts by customers in Canada. Sons of these winners \$15 to \$25. Utility line, 242 to 256 records, \$1.50 up. They won an egg contest in western Canada.

S. C. Browns—266 egg line. The greatest egg line and excls. out of 1st Palace pullet, 1914.

S. C. Whites—288 egg line cockerels, 1 or 100. Also hens. A great chance.

R. C. Whites—244 egg line. Winners. All my Leghorns good size and lay large eggs.

S. C. Reds—248 egg line. Extra fine.

Barred Rocks—270 egg line. Extra lot.

W. Wyandottes—228 egg line.

Fair treatment. Send for catalog.

W. W. KULP

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200 to 249 Egg Stock

Twelve weeks old pullets and cockerels. September delivery, trap nest pedigree stock, for sale, reasonable.

MARCH and APRIL pullets and cockerels, same breeding, some to spare at low prices for quality stock.

Yearling Hens and Cock Birds

some of my best breeders having egg records, or out of stock having records, as you wish, price \$2 to \$3 for \$5 to \$10 values, while they last.

Barred, White and Buff Rocks, R. I. Reds, Wyandottes, Orpingtons, Leghorns. : : CATALOG.

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RECORD
228 EGGS

SELLING OUT

All our Rose and Single Comb Reds. Splendid breeding trapnest record hens, 2, 3, and 4 month old cockerels and pullets. All with over 200 egg pedigree. Write your needs at once if you wish to come in on this great sacrifice sale.

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I have a fine bunch of beautiful pullets and cockerels ready for the fall shows. Bred from our Chicago and Milwaukee winners. Also a few good utility hens and pullets. Catalog free.

CORA B. GARBUTT, Box 146, DARIEN, WIS.

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From Bred-to-Lay-and-Win Stock

D. W. Young and Barron strain White Leghorns, Tompkins and Sanborn strain S. C. Rhode Island Reds, \$15.00 per doz. and up, quality considered.

PEERLESS HATCHERY

4537 S. Sacramento Ave. Chicago, Ill.

Large, Great Layers, Pure White,

LAYBILT "S. C. W." LEGHORNS

Choice cock birds, hens, cockerels and pullets offered now. Reasonable Prices.

EVERFRESH EGG FARM - Box A - IONIA, MICH.

Buff Orpingtons

Write for prices on young and old stock that will win at your State Fair.

O. M. ABBOTT Box 10 WHITELAND, IND.

S. C. BLACK MINORCAS

that have size and quality. Winning three successive years at Quincy show. Stock for sale this fall. Write for prices. Mention American Poultry Journal.

GROVER DEEGE 814 Jefferson St. QUINCY, ILLINOIS

I picked my last Royal Purple raspberries August 2. They are, as I have previously stated, the most productive and profitable of all raspberries here with me. I am going to urge all AMERICAN POULTRY JOURNAL planters in the mid-west to put out some of these berry bushes. They just smiled at the severe dry weather which took about all the life out of the red and black varieties.

* * *

As a reader of your interesting horticultural department in the Journal, I write to ask your assistance with some black currant bushes which do not bear any fruit to speak of. The bushes are three or four years old and late last fall I cut out a large part of the wood and put lots of hen manure around them in the spring, and dug about them keeping the ground cultivated. They were covered with blossoms this spring, as they have been before, but the blossoms did not make fruit. I feel like pulling them out, as they are not worth the room they take. They do not seem to be troubled with worms, but this year I have noticed a few of them with a striped bug similar to a cucumber bug, and the leaves are rusty looking where they have been attacked. If you would give me some information in American Poultry Journal, I would be very grateful to you.

Wm. Halliwell.

None of the black currants are as productive as the red varieties. Yet my correspondent's bushes should certainly produce better than they are doing. I am of the opinion that these bushes are of the Black Naples variety, which is only moderately productive. I advise my correspondent to plant a few Boskoop bushes near his present planting. I have never seen the insect to which Mr. Halliwell refers on any of my bushes. If this is an eating insect, the bushes should be sprayed with arsenate of lead. If a sucking insect, spray the bushes with Black Leaf 40. For rust, spray with sulphocide.

* * *

In answer to Lora C. Longhar, Wis.: Peter is a fall apple, originated by Peter M. Gideon, of Minnesota. It is a seedling of Wealthy and is as hardy as its parent. It has not been largely planted, for the reason that the fruit so closely resembles Wealthy that many growers have considered it identical with it. It will keep from four to six weeks longer than Wealthy. By all means plant a few trees of this variety.

* * *

I have a number of inquiries from people in the mid-west regarding the planting of the Stayman Winesap apple. I cannot recommend this apple for the mid-west prairie country. In the Virginia, North Carolina and Pennsylvania fruit districts it is a wonderfully fine and profitable apple. I think the best apple I ever put into my mouth was a Stayman, raised in the mountain orchard of F. R. Field, near Ashville, N. C.

W. P. Williams in answer to an inquiry of a New York planter, has this to say of the behavior of Stayman in Iowa, and upholds my position:

I notice some talk of the Stayman as a New York apple. I want to say a word about this apple. In planting our orchard we used Stayman and now have about 600 trees. It is a good grower if the one-year trees are used. The trees are very often irregular shaped and I hardly think it would be a long-lived tree. The fruit seems not to be so valuable as we expected, being dull colored and not so good a keeper as we thought. However, it is good-sized and a good apple, and probably we have made no great mistake in planting it. I believe it would not color so well with you even as it does here. My trees are young and it may do better after a while, but I hardly think we will plant it again.

* * *

In the beginning of these notes I mentioned how the thermometer registered ninety-six on my porch, and how the sun

Sex Control Spok Ahne Langshans

One breed that delivers the goods. This is what our customers have said this year:

North Carolina:—"Hatched 12 chix from 15 eggs; we consider this very good."

Texas:—"Hatched 8 chix from 15 eggs; we call this good enough."

Chicago, Ill.:—"The 16 chix arrived in fine condition, they jumped and flew in a way to do you good to see; we appreciate your treatment."

Waterloo, Iowa:—"The 8 chix arrived in good condition, all eating and doing fine."

Give Us an Order and You Will

Write Us the Same Way

More eggs and more pounds of meat from the same feed than any other breed on earth. Only a few pens for sale, fully pedigreed and guaranteed to give you 75% females or replace free. No extra males.

LAN SHAN FARMS, HERB E. SHARP
R. F. D. 3, Spokane, Washington



COLORLED LEG BANDS

Big Black Figures on White Background

3c each; \$2.50 per 100. All colors; all sizes, for all fowls, and pigeons. Baby chick bands not numbered. Leaders in visibility; durable, efficient, time savers. Their high reputation bears testimony to their merit. The perfect colored band. Can you afford to use any other? 2c stamp for samples and catalog showing several other styles. **A. P. SPILLER, Dept. A, Beverly, Mass.**



RILEY'S WHITE WYANDOTTES

Winners at Chicago, Toledo and Ohio State Fairs. Can please in breeding and exhibition birds. Write your wants and for catalog

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BUTTERCUPS

BIG SALE OF FINE STOCK

Both young and old. The greatest layers of large white eggs. Birds of wonderful beauty.

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Choice Stock at Real Bargains.

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attachment and harvester cuts and throws corn in pile on harvester or windrows. Man and horse cuts and shocks equal to a Corn Binder. Sold in every State. Price only \$32.00 with fodder binder. Testimonials and catalog FREE showing picture of harvester. **PROCESS MFG. CO., Department 104, SALINA, KANSAS**



The "Best Yet" Aluminum Leg Band. Cannot come off. 5 sizes, pigeon to turkey. State breed. 12, 15c; 25, 20c; 50, 35c; 100, 60c. No stamps. Also colored leg bands and seamless pigeon bands. Circular free. Aluminum Marker Works, Dept. J, Beaver Falls, Pa.

For Sale: 3 Candee Mammoth Hot Water Incubators of the following sizes: One 8400-egg, one 6600-egg, one 4200-egg capacity. Will sell cheap if sold soon.

If interested write for price and particulars.

FRANK BLUM, R. R. 2, Dept. A, New Washington, Ohio

S. C. WHITE LEGHORNS

Winners at Indianapolis and Fort Wayne, Ind. Winners and breeders for sale at reasonable prices. Write your wants.

JOSEPH MAZELIN, - BERNE, IND.

COCKERELS and PULLETS from the blue ribbon pullet at Boston, 1916.

BARRED PLYM. ROCKS

BEAR BROOK POULTRY FARM

S. C. REDS

WAKEFIELD, MASS.

S. C. WHITE LEGHORNS

Trapnested. Egg record 265 in one year. Cockerels from hens with egg record of 200 to 265, \$3.00 to \$10.00 each. **CARL J. JENSEN, North Ave., WAUKEGAN, ILL.**

Mention American Poultry Journal when writing to advertisers.

was scorching hot. Since then the clouds have gathered and now the rain is falling. Everything in the garden is laughing in glee and thankfully drinking in the sparkling drops of water—the first they have had in three weeks. Some one has said that the kindest thing God ever gave to man is shade and I am inclined to believe in the full truth of that statement. But when the rain falls on the scorched earth after a three weeks dry spell, it seems that nothing could prove a greater blessing. Just outside my study window a robin sits in an oak tree and is pouring out his thankfulness in a song which is as earnest a prayer as ever went up to God from any tired and care-worn man.

* * *

I have been getting twenty-five cents per quart for red and purple raspberries. That is a big price and a very profitable one. This fall I should dig out all my St. Regis bushes. This much boomed variety is of no value here. It is not an abundant bearer and the berries are very small. Of all reds, the King is the best, but I shall make all future plantings of Royal Purple.

* * *

On August first, I extracted several hundreds pounds of honey. It is selling at fifteen cents a pound. Most of the colonies run for extracted honey made about 150 pounds each. Comb honey, with an average to the hive of 96 pounds, is bringing twenty cents a pound. There is no more pleasing and profitable side line for the poultryman, orchardist or gardener than bee keeping.

* * *

I have tried, I think practically all of the early cabbages, and have found that after all the Jersey Wakefield is the most dependable.

* * *

Most of the buds put into the fruit trees during July "took" all right. I have top-worked several trees to more desirable varieties and in two years will be gathering fruit from the branches made by the buds. It is interesting work too. Sometimes when I am tired or worried I go out and put in a few buds on a tree of only ordinary value. It is such a simple thing within itself, this thing of putting a tiny bud into a branch of a tree. Yet in two years we behold quite big branches laden with fruit. So in budding one is building the frame work of a bearing tree. And so it is all thru life. It is not always the big things that are the greatest blessings.

I have a Senator apple tree in full fruit for the first time. I planted but one of these trees, believing them too tender for this climate. Yet this tree has withstood thirty-eight degrees below zero. It is a fine growing tree. The fruit is large and very beautiful. I am most favorably impressed by the Senator, which has none of the weakness of most Senators. I have top-worked by budding a number of trees to this variety. If an Iowa orchardist had his planting to this variety and the trees did as well as this one has for me, he would have a gold mine.

* * *

Hon. Roland Morrill, the peach King of Michigan, writing Wm. P. Stark, Neosho, Mo., under recent date, said:

"You can add one new feature to the list of merits of the J. H. Hale now. We had the worst visitation of Curl Leaf this year that we have had in twenty years, and where not sprayed the J. H. Hale proved the most resistant of the entire list. So now I have seen



Keep Their Houses Clean

Mites and lice breed by the millions these early fall days. Don't let them get a foothold in your growing flock—the birds you expect to lay high-priced eggs this winter. Make their houses bright cheerful and sanitary and prevent the existence of all vermin and disease germs by painting and disinfecting at one operation with

CARBOLA
The Disinfecting White Paint

A snow-white mineral paint combined with the world's most powerful germicide. Ride the premises of vermin, yet cannot harm the birds. Comes in powder form. Mix with water and it is ready to use. Can be put onto any surface with brush or sprayer.

Use It Instead of Whitewash

in poultry houses, dairies, barns, cellars and piggeries. Will not blister, flake or peel. Used and endorsed by experiment stations and many of the largest poultry and dairy farms.

10 lbs. (10 gals.) for \$1 plus postage. 20 lbs. (20 gals.) for \$2 delivered free. 50 lbs. (50 gals.) for \$4 delivered free.

Your dealer will supply you. If not, send us his name and your order. Trial package, enough to cover 250 sq. ft. and booklet "The Disinfectant that Paints" for 25 cents.

CARBOLA CHEMICAL CO., DEPT. 1, 7 EAST 42d ST., NEW YORK CITY

Help!

Hens can't rid themselves of lice. They need help. Don't let your hens waste their energies fighting lice, picking and pulling feathers. Destroy the lice with

Dr. Hess Instant Louse Killer

A simple, quick, sure way to get rid of all vermin. Sprinkle freely in nests, about roosts and houses. It comes in handy sifting-top cans which makes it easy to use. Sold by dealers on a money-back guarantee.

1-lb. can, 25c; 3-lb. can, 60c
(Except in Canada)

You can buy it at my dealer's in your own town.

Dr. Hess & Clark, Ashland, Ohio

Dr. Hess Instant Louse Killer also kills lice on horses and cattle, sheep ticks, bugs on cucumber, squash and melon vines and elugs on rose bushes.

BURDIN'S AUTOMATIC SAFETY-LOCKING REMOVERS

UNOBSTRUCTED VISION—ACTION FREE AS AIR—POSITIVE AS A VISE

NEW CAPONIZING TOOL

NO SPRINGS AND NO SLIPS

The instruments received. Have used them on 75 birds and do not hesitate to say they are superior to any tools I ever saw. Success depends largely on the operator's ability to see what he is doing. I do not see how instruments could be devised that would equal or surpass yours. —W. F. Hearst, Agri. & Biology, Labette Co. H.S., Altamont, Kan. This is not an isolated case. Similar letters received daily. There's a reason. All sales made on money-back basis. Not one set returned or failure reported to date. You are urged to make comparisons on the broadest possible basis, without fear or favor. Just a plain, open, free-for-all challenge to all makes everywhere. Please note design of my removers. Unobstructed vision. No fickle or stubborn springs to deceive, balk or tire you. The automatic lock insures uniform tension, safety and success. In adjustment, material and workmanship they are as responsive and accurate as a surgical instrument. Complete set with instructions, \$4.50; Removers alone, \$3.00. S. K. BURDIN, 66 Traaby Ave., Toronto, Ont. All charges prepaid. Illustrated literature free. Demonstrating agents wanted.

S. C. BUFF ORPINGTONS

Birds at REDUCED PRICES. Place your order now for young stock and get the pick of the flock of 1,000. Our wins in 1915 at Allentown, New York State Fair, Philadelphia, Grand Central Palace, speak for quality. We guarantee satisfaction.

Old Forge Poultry Farm

Box A

Spring Grove, Pa.

DIAMOND CORN GLUTEN MEAL



FOR a profitable egg yield, hens must have more protein than corn or straight grain can supply. You want an *available protein* and a *low-priced protein*.

Diamond Corn Gluten Meal is the most concentrated and lowest priced corn-protein on the market—guaranteed 40% protein, 1.5% fat, 4% fibre.

This is the reason that Diamond Corn Gluten Meal is the chief protein ingredient in the feeding formula used by successful poultrymen.

The following is one dry mash formula which has given excellent result:—

100 lbs. Wheat Bran
100 lbs. Wheat Middlings
100 lbs. Diamond Corn Gluten Meal
50 lbs. Corn Meal
50 lbs. High Grade Beef Scraps
25 lbs. Linseed Meal

If your dealer does not carry Diamond Corn Gluten Meal, write us and we will advise you where same may be obtained.

**Corn Products Refining
Company**
Feed Dept.

New York
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Speckled Sussex

I will have cockerels and pullets fully matured and in show condition any time after July. Also have some stock to sell bred from first prize pullet, at Quincy, that has laid 150 eggs in 159 days.

CHAS. A. SIMMONDS
CAMP POINT - - - ILLINOIS

**S. C. White Leghorns and
White Wyandottes**

A few good breeders for sale. Write us for prices.
P. J. FERRIS, Box A, CUYAHOGA FALLS, OHIO

every orchard test that is important in this region, and the J. H. Hale has proved superior in each and every one to any other variety grown here. You speak of Southern planters 'having fits' over the Early Rose. That about explains my state of mind over the J. H. Hale. I only wish I had a thousand acres in bearing now."

* * *

On August first, I was selling Henry Clay apples for two dollars a bushel. This is a very fine, extra early apple, not quite hardy enough to endure our test winters unless put on some hardy stock, such as Delicious, Duchess or Wealthy. I have had them winter kill. A few years ago I gave a neighbor one of these Henry Clay trees. It has never been injured by the cold, having withstood thirty-eight degrees below zero, while all my plantings of the variety the year this tree was planted died out. How do you account for that? I cannot. I now have several Duchess trees top-worked to Henry Clay and it is from them that I am selling the apples at two dollars per bushel.

* * *

Nine years ago a farmer not far from my place put out twelve acres of what he supposed were Wealthy apple trees. They came into bearing last year and every tree proved to be the worthless Haase variety. It is a great loss to my friend and he apparently has no redress. The trees were bought of a nursery company, making a very low price. Do not under any conditions buy these cheap trees. It costs money to grow a good tree, and therefore a good tree is worth all that it costs. I have been very fortunate in my purchases of nursery stock. During all the years in buying many trees I have only once received trees which were untrue to name. That was when I bought of a local nurseryman, letting my heart get the better of my head. I always make a special effort to keep clear of cheap nursery stock.

* * *

The death of Wm. Orr at Orr's Mills removes one of the strong men of the Empire State. Wm. Orr had an individuality all his own and left a strong imprint for good upon his immediate county and state. I was very fond of this man of sterling character, having met him when a guest of my most beloved friend, his son, D. Lincoln Orr.

* * *

Here is a compliment to Theodore Hewes. A few days ago I received a letter from A. W. Turner, of Quebec, Canada. In that letter Mr. Turner wrote: "How is Theodore Hewes? I met him at the New York Show several years ago. I often recall the fact that he was always busy shedding sunshine, and remember well his talk to a few of us beginners in the poultry business. I have profited greatly on the advice he gave us."

* * *

In answer to C. B. Farley, Michigan: The Holland Long Branch currant is not planted commercially in this country. It is a low growing stocky bush, with fruit of good size. It does not come into bearing as young as other currants, but is productive. Note what you say about planting five acres of currants and your apparent dislike of London Market. For years, Michigan commercial currant fields have been of this variety, and growers in enlarging their fields plant it as a rule. So I took it that it was admirably suited to Michigan soil and climate and market conditions.

USE KEY- RING-O



LEG BANDS

Highly recommended by leading Poultry Raisers everywhere as easiest, quickest, best way to identify birds

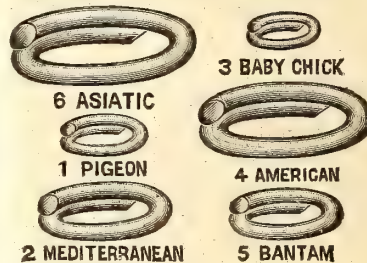
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Ten Distinct Colors

Black, White, Dark Blue, Pink, Light Blue, Red, Yellow, Green, Purple and Garnet.

ACTUAL SIZES



No. 2, 4, 5 and 6—12, 15c; 25, 30c; 50, 50c; 100, 75c. No. 1 and 3—12, 10c; 25, 20c; 50, 35c; 100, 50c. Special prices on larger quantities.

Send 7 two-cent stamps for 15 Bands, postage free, and receive our circular, "Increasing Poultry Profits." State color and sizes wanted.

NEWELL & GORDINIER

Manufacturers

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You can get more money

for fresh eggs by shipping them direct to consumers; and the

Sefton Egg Shipping Boxes

are the best for the purpose. Sefton Corrugated Board has higher arches and more of them to the in. than any other make; that means more strength, more protection for the eggs.

Send 25 cents for sample
Ask your paper jobber

The Sefton Mfg. Co.
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Three Oaks Columbian Wyandottes

Breeding and exhibition stock at reasonable prices. Write wants. Address
Ralph Woodward, Box 200, Grafton, Mass.
Pres. National Columbian Wyandotte Club.



Single Comb Black Minorcas at the last Madison Square Garden Show formed the largest class this variety has ever had at that show. The first prize cock and the first prize cockerel shown in the above illustrations were bred and are owned by the Whatglen Farms, Frank McGrann proprietor, Lancaster, Pa. Their fine type and color made them easy winners.—L. A. S.

W. B. Cross, one of the largest apple producers in the West, says, "If I were to plant an apple orchard of 100,000 trees, I should plant 30,000 Black Ben, 10,000 Delicious, 5,000 King David, and the rest Winesap, Jonathan and Rome Beauty."

* * *

J. S. Moore of Iowa has planted 2,000 Black Ben apple trees. Black Ben, an apple of fair quality, is large and beautiful, hardy and a wonderful bearer. It sure is the "barrel filler."

* * *

It is really amusing what a number of Eastern gentlemen are saying in the poultry press as to the sentiment for the

score card in the West. Here in the mid-west the score card is looked upon as a farce by the men who have progressed beyond the first class lessons in poultry breeding and exhibiting.

* * *

A man in my home county who lived upon a New York farm until he was thirty years of age, and who always had an abundance of Baldwin apples, planted twenty trees of this variety this spring. There is grief in store for this man.

* * *

September is a very pleasant month for the fruit grower. He knows just about what the apple crop will be. The grapes are ripe and the fun of handling

them is enough to make any man thank God that he gave us the grape vine. Then there are a thousand and one things to be done, the doing of which is real pleasure to the person who really loves to grow fruit. In a word it is glorious out in the open in balmy September.

YOU don't pay for gravel and dust here
—just carefully selected grains in

H-O Scratching Feed

THE H-O COMPANY
Mills:
Buffalo, N. Y.

JOHN J. CAMPBELL
General Sales Agent
Hartford, Conn.

SCRANTON'S FAMOUS S. C. R. I. REDS Now Owned by Rau & Fry, Indianapolis, Ind.

That superb flock that, for the past eight years, has been producing each season many of the really sensational show birds, winning first honors at such shows as *Hagerstown, Cincinnati, Chicago* and *New York*—winning the past season in America's greatest show, *Madison Square Garden, N. Y.*, the coveted first prize on *Cockerel, Pen and Display*, besides *second and fourth Pullet, fourth Hen, and third Pen, color special Male and champion S. C. Red of the show.*

100 Early Cockerels Bred by Scranton \$10.00
From His Madison Square, N. Y., Winners, Each

Capable judges who have seen these birds, pronounce this season's youngsters the best Mr. Scranton has ever produced. We firmly believe they are not excelled anywhere. The opportunity we offer the readers of this Journal is, therefore, one that will appeal strongly to those who seek *type, color, vigor, size, laying ability*, whether they desire breeders that will stamp these qualities upon their present flocks, or show birds that will bring home the prizes. In addition to these cockerels, we will make during September and November very low prices on yearling

males, hens, pullets and pens, because we must reduce quickly the number of birds on hand. Write us for prices on birds for any show. We have the goods—rich in individual quality and the blood that produces birds of lustrous surface, deep red undercolor, strongly colored breasts and good type.

We can help you win. Special Fall Sale List now ready. Send for it. Photographic group of *First Pen, Madison Square, N. Y.*, suitable for framing, sent for a two cent stamp. Address

RAU & FRY, Hawthorne Poultry Farm

Grand Hotel, INDIANAPOLIS, IND.

Questions and Answers

Conducted by
Prince T. Woods, M. D.

Lawn Clippings.

Q. Do you consider lawn clippings, dried, a good food for chickens in the winter? How should they be fed?

New Brighton, Pa. C. E. K.

A. Lawn clippings, particularly when they contain clover, make excellent poultry food. Cure, or dry them under shelter to preserve the green color. When thoroly dry, store them away in sacks. Before feeding the clippings, place them in a pail and cover with scalding water, cover the pail and let them steam until nearly cool; then mix with mash or with a little bran and middlings. Feed at one meal five times a week, as much as the birds will clean up quickly.

For Two-pound Spring Friers.

Q. (1) I am new in the poultry business and undecided on the kind to raise.

Of White Wyandottes and White Leghorns, which would make the best for two-pound friers in the early spring? Which would bring the most in dollars and cents?

A. (1) While the Leghorns grow quickly and make excellent broilers and friers, we believe that you would find the Wyandottes more satisfactory for your purpose.

Q. (2) I have an old apple orchard—about one acre—and, not being cultivated for some time, it is set with weeds, dock, etc. I would like to get it into clover and grass. What is a good way to get rid of the weeds and when would be a good time to start on it? I want to clean out the weeds and get a nice sod for next spring's chickens.

Doylestown, O.

S. C. H.

A. (2) Would mow the weeds, plow up the land and then use it as a run for

a good sized flock of fowls for a few weeks. Then smooth out the lot by working well with a harrow and sow to rye. In the spring when the frost is coming out of the ground, sow your clover and grass seed mixture. When the rye is ready to cut, the grass and clover should have made a good start. You will not get a sod that will stand up under chickens the first spring.

Gapes.

Q. I have 100 chicks running in same flock. They are six weeks old. A few of them have the gapes. Have used a gape remedy without results. The chicks have not been on the ground yet. Feed them a commercial developing mash and scratch food. Use dry clean straw for litter and keep the runs sprayed and clean. Opened one chick and found four worms in its throat, each about $\frac{3}{8}$ of an inch long. Have removed afflicted chicks from the flock.

Buffalo, N. Y.

J. B.

A. We do not recall having a case of gapes reported before where the chicks had not had an opportunity to run on infected ground. You must have introduced the parasites in the feed or straw. Remove the worms from affected chicks by means of a gape worm extractor. You can obtain an extractor from any poultry supply house. A timothy head, from which the seed has been rubbed with the fingers, can be used as an extractor for removing gape worms. The worms are found in chick's wind-pipe. Disinfect the runs with a 3% solution of sulphuric acid. In using an extractor it is introduced into the wind-pipe and then withdrawn with a twisting motion. Extractor may be moistened with a very weak solution of creolin, a few drops in a cupful of warm water.



2nd Prize Pullet Bred Cockerel, Palace Show, 1915

LATHAM'S BEAUTY AND UTILITY Barred Plymouth Rks.

Choice breeding females selected from my matings of this year at very low prices.

Eggs for Hatching

for balance of season at \$5 per 15, \$8 per 30 and \$10 per 45.

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EVERY BIRD AT A LOW PRICE TO CLOSE OUT.

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Orchard Place

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The ideal show and utility strain. Five Firsts, Chicago, 1916. Egg-record up to 265. Peace time prices on adult stock during June, July and August. Send for special Sales List. 2000 February, March and April chicks growing. CHAS. V. KEELER - R. F. D. No. 11 - Winamac, Ind.

White Wyandotte Eggs

Send for prices. They will interest you.

THE WHITE WYANDOTTE POULTRY YARDS,

H. J. W. Fay, Prop.

WESTBOROUGH, MASS.

Material Required for Poultry Houses.

We have received a number of requests for list of lumber and other material required for building poultry houses of various dimensions. We have not the time to work out lists of special information of this sort. If our readers, who desire such information, will take a rough sketch of plans and dimensions of proposed poultry buildings to their local lumber dealer, a carpenter and builder, or an architect, they can



Sunswick Buff Orpingtons

Have been bred for years to produce type, color, size and great egg production. Sunswick's grand quality and worth are shown by their hundreds of winnings at America's leading shows. Sunswick's flock of Buff Orpingtons has been proved to be among the world's best, by its show record and satisfied customers. Sunswick has won a reputation for moderate prices and upright dealings. Sunswick can supply winners for your shows, also breeding birds to produce quality stock. Sunswick offers some wonderful exhibition birds for the early shows—birds that should win in any competition. Order early. Send a postal today for large catalog—it's free.

SUNSWICK POULTRY FARM, Rufus Delafield, Owner.

Box J, SOUTH PLAINFIELD, N. J.

secure the desired information promptly and much more cheaply than we could furnish it.—Editor Q. A. Dept.

Mating Blue Orpingtons.

Q. How should Blue Orpingtons be mated to produce good standard color?

Middleborough, Ky. F. H. C.

A. Haldie Nicholson, in AMERICAN POULTRY JOURNAL 1915 Year Book, says: "For the benefit of the breeders of this variety I will explain how I mate my Blues. I will take a Standard male. This bird calls for lacing on breast; hackle, back and wing bows should be blue-black with bright brilliant top color: tail to be blue-black: body a dark, slaty blue; black or brown eyes and blue-black legs. Mate to this bird a Standard colored female, which calls for about medium color, and properly laced. This mating will produce you both show cockerels and pullets. I will call this mating No. 1. I will call this next mating No. 2. Take out of your flock the lightest blue cockerel that you have, with breast devoid of lacing and mate to him your darkest laced female and again you will get results. Mating No. 3—in to this mating put your very darkest blue male, which is a shade or two, as one might say, from black. Mate to this cockerel your very lightest blue pullet, and again you will get good results. Mating No. 4—this pen will contain some of your off-colored birds. First, take your splashed cockerel (and, by the way, this bird's plumage is white, blue, and will also have some red feathers and occasionally black feathers) and mate to this bird the black pullets which you have gotten from your blue mating, and again you will get good results from this pen. Mating No. 5—this pen will contain your solid black cockerel from your Blues. Mate to him your splashed pullets. This last pen I do not recommend, as the percentage of Blues is very low.

Open-Front House Questions.

Q. Have an 8x10 shed-roofed house, front two-thirds open, covered with wire. Left it open all last winter and went thru some very cold weather with no ill effects, except that egg production dropped lower at such cold times. Why do Woods' houses all call for a monitor roof? Why are cloth curtains required? When cloth curtains are used the house seems close, yet house it cleaned at least twice a week.

G. H. S. Collingswood, N. J.

A. The Woods' type of semi-monitor top open-front poultry house does not call for any cloth curtains; the open front is always open, covered only by the fine mesh wire netting. Cloth curtains have been recommended for shallow houses with a wide expanse of open front, but only for the purpose of keeping out snow and rain. We never use a curtain on an open-front house of the Woods' or Tolman's type, unless the house is in use for brooder flocks of small chickens. The monitor top is used to get sunlight into back part of house and to provide additional ventilation in hot weather. It also gives desirable head room in a part of the house where it is most needed. In shed-roofed houses that are shallow and have a considerable expanse of open front, cloth curtains may be used to keep out rain and snow, but these curtains should never entirely close the open front. Houses of the Tolman or Woods pattern will be found

Parks' Strain of Bred-to- and-do-Lay Barred Plym. Rocks



Lead (by 15 Eggs) the Entire Missouri Laying Contest of 100 Pens (From all Parts of America and Foreign Countries)

Showing what careful selection, trap-nesting and pedigreeing for EGGS since 1889 has accomplished. Remember, they outlayed all other birds entered in the last contest, laying more eggs than the famous English Strains did in either the Missouri or Storr's Contests and best of all, they lay them 5c winter eggs as the contest record of 134 eggs for January showed. All this without sacrificing standard requirements as our winning records show.

A Choice Lot of Pullets and Cockerels of Such Breeding at Special Summer Prices

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1st Cock; 1st Cockerel; 1st Pen; 1st and 2d Hen; 2d and 3d Pullet. Book order now for winter shows. Have the quality that can win for you. Write for prices. Catalog free.

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ORCHARD FARM

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SINGLE COMB WHITE LEGHORNS

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"Satisfaction Always"

Range Raised

Memphis Tri-State Show, 1914. 356 in class, won 2, 3 Cock; 1, 2, Hen; 4, Cockerel; 1, 2, 3, Pullet; 3, 5, Pen; Best Display. Again in 1915, 215 in class, won more prizes than any other breeder in class, and Best Display. Arkansas State Fair, Hot Springs, Ark., 1914—won 1, 2, 3, Cock; 1, 2, 3, Hen; 1 Cockerel; 1 Pullet; 1 Pen. Best Display in show. No show held in 1915. Not a bird shown was washed or conditioned. Our best business comes from former customers. See free Catalog and Mating List. Seventh year. Largest farm in State. Completely equipped.

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Guaranteed winners for any fair or show. One of the finest lines of exhibition birds now ready. Recent winnings Chicago Coliseum, Great Minnesota State Fair, Birmingham, La Crosse.

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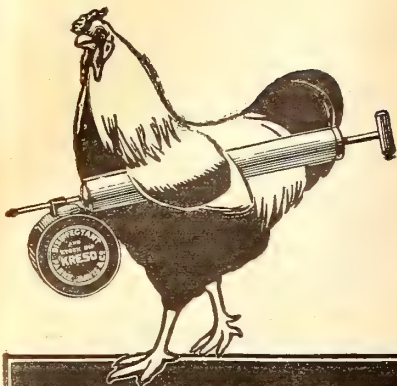
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Pullets, Cockerels, Hens and Cock Birds for sale, bred from 200 Egg Hens for \$1.50 up. Also Farm, Name and Business will sell reasonable.

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Kills lice and mites.

For treating all of the common diseases of poultry.

Prevents the spread of contagious diseases among poultry.

Kreso Dip No. 1 and a little effort will keep your poultry clean and healthy and increase your profits.

INEXPENSIVE. DEPENDABLE. EASY TO USE.

Will not harm poultry when used as directed.

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FALL SALE—SPECIAL PRICES

Cocks—Were used in our own breeding pens. That's proof they are *right*.

Cockerels—Bred from generations of 200-egg record layers. Healthy, husky hustlers.

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warmer than the open-front shed-roofed houses. Cold weather seldom, if ever, causes a noticeable check in egg production where the flocks are properly cared for in well-built, properly-proportioned, open-front buildings.

Dark B. P. R. Pullets with Dark Legs.

Q. Do thoroughbred Barred Plymouth Rock pullets have dark colored beaks and legs at the age of three months and younger? I am very anxious to know. All my pullets are very dark with bluish color in beaks and legs, but the cockerels all have yellow beaks and legs.

Geer, Wash.

D. W. F.

A. You undoubtedly obtained hatching eggs from a cockerel mating, which will account for the dark pullets. Dark pullets often show dark spots in beaks and shanks and more or less dark color in front of shanks. Part of the off-color may fade as the birds mature. The Standard calls for yellow beaks, shanks and toes in both sexes.

Market for Guinea Pigs.

Q. Years ago I raised Guinea Pigs for pets, but today it is claimed that there is a great demand for them. Where and how can I find this market?

Atlanta, Ga.

J. C. H.

A. The demand is very limited. Thru the physicians in your neighborhood you may be able to get in touch with the laboratories of certain medical schools and hospitals where there is a demand for Guinea Pigs. Pet stock dealers in most cities will handle a limited number. Judging from the offerings in medical magazines, the supply must be much greater than the demand. Healthy 10 to 16-ounce pigs are most in demand.

Off-Color in White Wyandottes.

Q. Last winter I purchased a pair of White Wyandottes from a prominent breeder. (I paid \$20 for the pair for breeding purposes.) As far as looks go, I thought I had a bargain. At present I have thirty chicks from them and they are well developed in every way; being good sturdy chicks. To give you an idea of the size I would say that cockerels nine weeks old weigh 3 pounds each, which I think is a good weight.

Recently in going over these chicks, I have been surprised to find a number of feathers like the one enclosed. While very few of them have the black pigment extending down to the quill, as is the case with the feather I am sending you, others show more black in the fluff part. These feathers appear in different parts of the body, rather more on males than on females.

I want you to advise me if it would be best to kill off all these birds and start again, or by a process of elimination to gradually work them better. While I have been keeping poultry for some time, this my first adventure in the fancy. Please answer at length thru the JOURNAL.

Fredericton, N. B.

A. The feather enclosed shows a little peppering of black, a blue tinge in the fluff and a black streak on lower part of shaft. Similar off-colored feathers are not infrequently found on very excellent and well bred White Wyandottes.

It is apparent that, as you believed at first, you secured an excellent bargain. The breeders are evidently healthy and vigorous and have yielded excellent chicks that have developed very well.

STILES' COLORED Leg Bands

PROVIDE IDENTIFICATION

Identify birds as far as you can distinguish colors. Tell which are yearlings and which are two year olds without handling. Made in Red, White, Blue, Amber, Green, Black, Pink, Light Blue and Ruby. Mention variety when ordering.



ECONOMY BRAND—Single coil for adult fowls. 12 for 15c; 25-30c; 50-50c; 100-75c; 250 \$1.80; 500-\$3.50, postpaid.



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THE VICTOR BAND Has large printed numbers, bright and clear colors—Red, white, blue, green and yellow. Adjustable. Made of celluloid and aluminum. 12 for 35c; 25-65c; 50-\$1.25; 100-2.25; 200-\$4.00, postpaid.

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THE CAPITAL BAND Has raised figures. Adjustable, strong, smooth edges. 12-15c; 25-25c; 50-40c; 100-65c; 250-\$1.50; 500-\$2.75; 1000-\$5.25.



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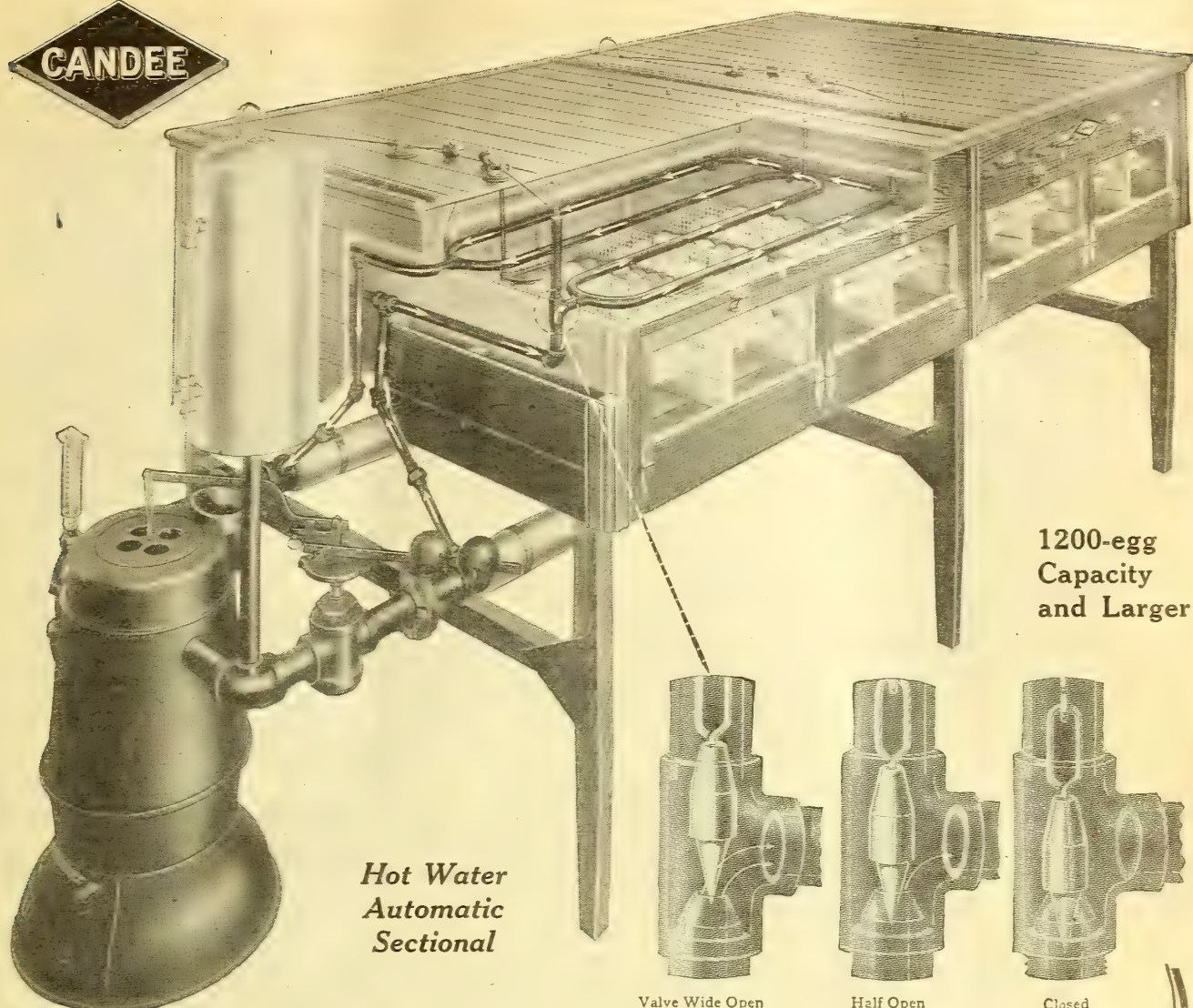
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*Hot Water
Automatic
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Valve Wide Open

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A Regulator at Each Compartment Safeguards the Eggs and Saves Much Labor

Because there is an Automatic Regulator at each 300-egg compartment of the Candee Incubator, the eggs cannot overheat—the thermostat expands and stops the flow of hot water into the compartment when the temperature is right, without your being there to see that this is done.

Double Temperature Control

You need not be there to lower the trays to prevent overheating of the eggs—the Candee trays are stationary and do not need to be lowered at any time.

There is also an Automatic Regulator at the Heater that controls the draft, giving double regulation and double temperature control.

You can start hatches at different times in the Candee, because each compartment operates separately without interfering with or affecting the temperature or eggs in any other compartment.

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Each 600-egg Section of the Candee is shipped all-built, and each section easily passes through any ordinary size door opening.

The hot-water pipes are all in place inside the machine, and any handy man can install it. The Candee Incubator comes to you all ready to set up on its legs.

Additional Sections can be added as your business grows without disturbing the first installation. The exclusive Candee principles of construction and operation are covered by broad patents, which principles are unchanged after years of use. The Candee is not an experiment.

Candee Equipment is sold on the broad proposition "Write Your Own Money-Back Guarantee and Attach It to Your Order."

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Both are made of Both \$10
Calif. Redwood. For
Incubator is covered with asbestos and galvanized
iron; has triple walls, copper tank, nursery, egg tester, thermometer, ready to use. 30 DAYS' TRIAL—money back if not O.K. Write for FREE Catalog Now.

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Cuts all bone with adhering meat and gristle. Never clogs. 10 Days' Free Trial. No money in advance.
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Pasteur Laboratories Rat Virus
NOT A POISON
PASTEUR LABORATORIES AMERICA
NEW YORK CHICAGO
EASY TO USE
HARMLESS TO POULTRY DOMESTIC ANIMALS AND MAN

The few off-colored feathers are nothing to worry about, even should the birds continue to show some off-color when they have their adult plumage. It probably is simply an indication that the breeding pair are not closely related and that they are good, strong, vigorous specimens.

We certainly would *not* kill off the chicks and make a fresh start. Just forget the off-colored feathers. Select the young stock for health, vigor, vitality, size, shape, and other good Wyandotte qualities apart from color. While you will find few white birds that do not show a little ticking or peppering of black pigment—if you search close enough for it—you can by careful breeding eliminate most of it. Mate the best pullets back to their sire. Mate the cockerel which is best in all characters,—the most like his sire,—back to his dam. Keep on breeding the best, selected, healthy, vigorous specimens of this flock in on each other and we believe you will find the results satisfactory. Bear in mind that success in close breeding depends upon careful selection and breeding for health,—and, in making up a mating, try to avoid having the same or a similar defect on both sides of the mating; balance a defect on one side of a mating with strength on the other.

Naphthalene-Kerosene Mixture for Lice.

Q. (1) Please give me formula for mixing naphthalene flakes, kerosene and crude carbolic acid to make a lice killer.

A. (1) Naphthalene flakes....1 lb.
Kerosene (coal oil)....1 gal.
Crude carbolic acid....1 pt.

Dissolve the naphthalene (crude flakes) in the kerosene and then add the crude carbolic acid.

Q. (2) Will moth balls do as well as naphthalene flakes? I cannot get the flakes.

A. (2) Naphthalene moth balls will serve if crushed and powdered before adding to the kerosene. Naphthalene flakes have been higher in price and less easy to obtain since the European war. Formerly we paid from 6 to 8 cents a pound for the crude flakes, but now the price is 25 cents a pound.

Q. (3) How is this lice killer used? Macon, Ga. L. R.

A. (3) To rid hens of lice paint the inside bottom of a box or barrel with the lice killer; place the hen in the box and confine her there for ten to fifteen minutes, using a piece of coarse open-weave burlap to confine the hen and partly confine the fumes. Do not shut the hen in too closely or you will suffocate her; remember that she must have a little pure air to breathe. The treatment must be given in a moderately warm place so that fumes are given off freely. After treatment the hen should run in the open air. Do not get bottom of box or barrel too wet with liquid; if feathers are wet with it the kerosene will blister the tender skin.

We prefer to use blue mercurial ointment one part mixed with three parts petrolatum, a little applied above and below vent of fowl and under the wings. This is an effective remedy for lice and less apt to injure fowl or plumage. The naphthalene-kerosene-carbolic mixture is better for use to get rid of mites about poultry houses and roosts. To build-up, coops, roosts and equipment, it may be applied with a brush or as a spray and it proves an effective mite killer.

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Highest official Red record we know of.
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282 eggs per year

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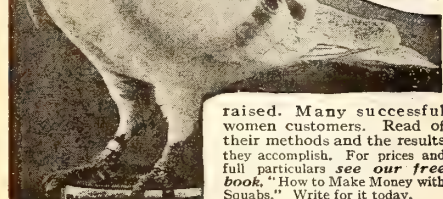
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Years ago Mr. Martin began to trapnest his fowls, beginning with one female he called "Dorcas," that was a prolific egg layer. With this specimen as a foundation, mated to one of his choice exhibition males, he began the breeding of a line of Wyandottes that possessed exhibition qualities with great egg laying ability. Above is shown nine of the highest egg record females of the past season. It will be noted that these females show plenty of modern Wyandotte characteristics and show room type as compared with the present day Standard. Fine feathers, fine form and useful qualities should be the requirements as set down by the American Poultry Association in their Standards for all breeds.

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for 1916, telling how a Mich. hired man now works for himself breeding PR squabs and selling for \$5 doz., how an Ind. man sold 4652 PR squabs for \$1265 in 1915 and cured himself of desire to leave the farm, how a S. C. man ships PR squabs 125 miles to city hotel by parcel post at \$4.25 doz., how another earned one thousand dollars with PR stock from start with only one pair, how a Texas judge bred 8 pigeons until they amounted to a flock of 164 in one year, how a Vermonter bred 25 pairs to 800 pairs in two years. You can do the same. More money-making experiences. *Write today for this big free book.* How to get six dollars a dozen, how to start small and grow big. We ship breeders everywhere, safe delivery guaranteed. Read how one of our customers gets as high as \$8 a dozen for squabs in Pittsburgh and makes a net profit of ninety dollars a month. Note his selling methods. Reading matter which is alive with selling as well as breeding ideas. Squabs well sold are easily



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Are sure winners. Breeders for sale now. Howard O. Sears, L Box 6, Garden Prairie, Ill.

Leg Weakness in Baby Chicks.

Editor AMERICAN POULTRY JOURNAL—Leg weakness in baby chicks, which seems to be prevalent thruout the state, and which, from information at hand, seems to be causing serious losses among flocks in adjoining states, has been in evidence on the plant of the Mormac Poultry Farm, Norwich, Penn., this season, and while it has been claimed that there is no known cure for the disease, the following treatment worked out and being applied at the above named farm is preventing the disease and effecting a permanent cure among chicks affected before preventative steps were taken. The trouble occurred at ages ranging from ten days to five weeks and the beneficial effects of the treatment were in evidence three days after being applied. The chicks treated separately were unable to walk when placed in a pen by themselves and the cures so far obtained resulted in from nine to eleven days treatment. No losses have resulted from the disease and at this writing no new cases are visible among the flocks.

As a natural preventative the chicks should be kept on the ground as much as possible, dry floors of wood or cement being avoided. As soon as the disease appears among the flock give one teaspoonful of tincture of nux vomica in each quart of drinking water every other day, giving on alternate days extract of clover which may be obtained by steeping one-half pound of dry cut clover in one gallon of boiling water, this to be given as a drink without diluting. Once each week pure water may be substituted. On days when nux vomica is given a noon feed of greens or fine cut clover thoroly steamed should be provided, alternating with fine ground green bone on days when the clover extract is given. Feed grain, grit and charcoal on the ground, thus compelling the chicks to stay on the ground much of the time. Continue this treatment, which may be applied as both a preventative and a cure, until the trouble disappears.

Norwich, Pa. H. R. Moran.

(NOTE—The above is good common sense treatment and well worth a careful trial by those who have similar trouble with small chicks. We are always glad to receive letters of this sort. When you have helpful information and experience to offer to brother poultrymen, pass it along. Every time you help a fellow worker you help poultry interests and yourself.—Editor Q. A. Dept.)

Government Bulletins.

Q. Where can I get a list of Government free bulletins on poultry culture?
New York. H. A. C.

A. Apply to Division of Publications, United States Department of Agriculture, Washington, D. C. Among the bulletins which you will find of interest are:

- No. 182—Poultry as Food, Helen W. Atwater.
- No. 234—The Guinea Fowl and Its Use as Food, C. F. Langworthy.
- No. 287—Poultry Management, G. Arthur Bell.
- No. 355—A Successful Poultry and Dairy Farm, W. J. Spillman.
- No. 445—Marketing Eggs Through the Creamery, Rob. R. Slocum.
- No. 452—Capons and Caponizing, Rob. R. Slocum.
- No. 528—Hints to Poultry Raisers, Harry M. Lamont.
- No. 530—Important Poultry Diseases, Dr. D. E. Salmon.
- No. 562—Organization of Boys' and Girls' Poultry Clubs, H. M. Lamont.
- No. 574—Poultry House Construction, Alfred R. Lee.
- No. 585—Natural and Artificial Incubation of Hens' Eggs, Harry M. Lamont.
- No. 594—Shipping Eggs by Parcel Post, Lewis B. Flohr.

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Economy Trap Nest

HOUSTONIA Red Sussex Light Sussex

The Colder the Day the Better they Lay
Can furnish you birds to win, bred from Chicago Coliseum and Madison Square winners. A wonderful lot of youngsters will be ready for early fall shows. Let us quote you prices. Stock shipped on approval. Satisfaction guaranteed.
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Banks' S. C. Reds

Winner A. P. A. Gold Medal
Best Cockerel, Harrisburg, Pa., Dec., 1915

Satisfaction guaranteed.
Send for Mating List.

M. H. Banks, Dillsburg, Pa.

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At each of the last two Madison Sq. Garden, N. Y., shows, I won more first than all my competitors combined. Feb. 1915, 7 1sts, Jan. 1916, 6 1sts. Let me start you right as I have others. Egg prices now 1/2.

M. R. Jacobus, Box 3-J, Ridgefield, N. J.

White Langshans and White Indian Runner Ducks

FOR SALE AT
MOHAWK POULTRY FARM
R. H. Moore, R. F. D. 1, Nellie, O.

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The Newtown Giant is the only incubator for you if you require the machine which will positively "hatch the most chicks, the best chicks with least labor and at low-est cost." Below are a few reasons for acknowledged Newtown supremacy:—

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Actual performance in all climates, under all the varying conditions the world over, has demonstrated the Newtown to be the most efficient hatching machine.

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This applies to every part of the machine. The most exacting care and the very highest skill are used in manufacturing the Newtown.

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The Newtown is substantially built and will last a lifetime. Every part is carefully inspected and strongly put together. Each machine is completely assembled before shipment. This insures accurate fitting and perfect operation.

Supreme in Improvements

This has been the greatest factor in Newtown success. Only those features which stand the most severe tests are adopted. They include the Automatic Coal Feeder, Automatic Regulator at the Heater, Automatic Regulator of Heat, Ventilation and Moisture at each compartment, Automatic Eggs Turner, Automatic Temperature Indicator and Automatic Electric Alarm.

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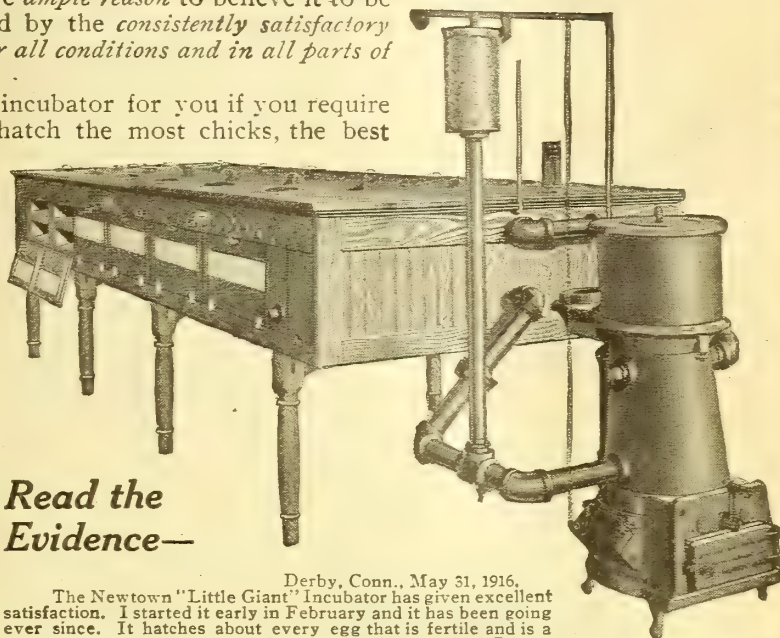
Nothing is left undone to insure that every Newtown user shall get the very best and greatest possible service from his machine. Everything is designed for convenience and service.

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Every Newtown customer is a satisfied user. Ask the poultryman who owns one. A great many people who purchased Newtowns last year have already placed orders for increased capacity to be installed at once. This is the final test.

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Because they are supreme in Efficiency, Construction, Durability, Improvements, Service and Satisfaction, the sales of Newtown Giant Incubators are more than doubling each season.



Read the Evidence—

Derby, Conn., May 31, 1916.
The Newtown "Little Giant" Incubator has given excellent satisfaction. I started it early in February and it has been going ever since. It hatches about every egg that is fertile and is a very great improvement over the other incubators which I have had of smaller size and different makes, although they were considered to be among the best of the smaller machines. MAPLEDALE FARM, (Judge) W. S. Downes, Owner.

Waverly, Iowa, May 15, 1916.
We have thoroughly tried out our 3000-egg Newtown Giant Incubator and find it highly satisfactory in every way. It keeps the temperature perfect—same does not vary one-fourth of a degree in the various compartments. We were surprised at the small amount of fuel this machine takes, and have taken off two splendid hatches. We are perfectly pleased in every particular, and shall be glad, at all times, to recommend Newtown Giant equipment. RHODE ISLAND RED JOURNAL CO., A. G. Studier, Editor.

Somerset, Mass., June 12, 1916.
Am very much pleased with the way my machine has worked. I do not see how any machine could do better work. One of the things that impressed me most was the Egg Turner and decided me in your favor. After using the turner for one season I can say nothing but praise for it and feel that it has saved its price over and over in the time and labor. I have never had healthier or better chickens than I have had this year. Wishing you the success with your machine that you deserve. ERNEST L. PIERCE.

Reno, Nevada, April 6, 1916.
I am very well pleased with the 6000-egg size Incubator purchased of you this Spring. Your egg turning device is certainly a big improvement over last year's model. We are turning out the best chicks we ever hatched and more of them. Our 1200-size purchased last year, remodeled with this year's trays, hatches 20 per cent. better; 1056 eggs set; hatched 815 chicks, 1st hatch. 1056 eggs set; hatched 822 chicks, 2nd hatch. A. F. SCANAVINO, Manager.

Pittsfield, N. H., May 24, 1916.
We have just closed our hatching season with our Newtown Giant Incubator. Got an average of 66 per cent. hatches of all eggs put in machines hatching over 13,000 chicks. Am much pleased with the turner. It is a great labor-saver. The chicks are well hatched, coming out large and strong. The Newtown products are O.K., and your dealings are on the square. A. N. PEASLEE & SON.

Gossville, N. H., May 27, 1916.
Am very much pleased with my 1800-egg Newtown Giant Incubator. My last hatch averaged 75 per cent. The ease and accuracy with which it runs far exceeds my expectations. K. F. RAND.

Box 92, Wyckoff, N. J., May 12, 1916.
The 1200-egg Giant Incubator purchased at Madison Square Garden is certainly a labor-saver for the busy poultryman. About fifteen minutes each day is all the time it requires and it brings out the finest chicks I ever saw. The Electric Alarm is a big feature but my machine has maintained such an even temperature that the Alarm has never been sounded. TEMPEL'S POULTRY FARM.

Huntington, L. I., N. Y., May 15, 1916.
The 1800-egg Newtown Giant Incubator has given perfect satisfaction. Our hatches have averaged about 80 per cent. all season and all were strong chicks. The machine is very easy to operate on account of the Automatic controls and the Automatic Eggs Turner is perfect. It saves time and turns the eggs thoroughly. The machine is all you claim it to be. BREEZY LAWN FARM, Henry Hung, Owner.

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Send for a free leg band for that prize bird of yours. We will give you a circular of the Bourne big numbered poultry band, having large numbers easily read from a distance. Especially recommended for tramped hens. State size wanted, Bantams, Leghorns, Rocks. Male or female. Band is made with black numbers from 1 to 300 on red, white, yellow, pink, cerise, green and light blue celluloid. Will stand weather and water. Price 3c each, \$2.50 a hundred. Send cash with order.

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Eggs half price balance of the season
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Provides fresh, sweet, and wholesome green food and protein the year around, at lowest cost. Only \$3 Delivered. West of Miss. River add 50c. Pacific Coast States add \$1. 8 pans 11x15 in., perforated, galvanized steel. Knockdown. Descriptive Booklet FREE. 10-days free trial.

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Eggs. Winners at World's Fair, Chicago, and Springfield. Catalogue free.

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Adjustable, lightest, neatest, best, stays on. Price, 12-15c, 25-20c, 50-35c, 100-60c. "Silver Tip" Pillars, 10c; 3c extra for postage. W. J. BALL - Salem, Ohio

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Established in 1900; have won the Blue at the leading shows, including Madison Square Garden and Chicago, and they ship birds C. O. D. on approval. Nuff said. Z. D. STRUBLE, Lock Box A, BASCOM, OHIO.

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Chicago and State Show Winners. Excellent laying strain. Write for mating list. Eggs half price after May 15th. Mention Am. Poultry Journal.

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Speckled Sussex and Buff Orpingtons

WHITE WYANDOTTES

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Box 202 Washington, N. J.

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No. 682—A Simple Trap Nest for Poultry, Alfred R. Lee.
No. 684—Squab Raising, Alfred R. Lee.

Beef Scrap—Breeding Questions.

Q. (1) I am enclosing a sample of beef scrap. Does this appear to you to be fresh, and would you advise feeding it to growing stock?

A. (1) We would not feed it to any stock. The scrap appears old and in poor condition, also it is poor scrap and contains a large amount of coarse bone and some foreign matter.

Q. (2) I have a fine bunch of S. C. Black Minorca chicks, but they were hatched late, June 25, 1916. I purchased the eggs from a prominent Eastern breeder and have every reason to believe that I got good value for my money. Will these do for breeders next spring? Would you advise a cockerel from this flock at the head of my pen, or should I purchase another bird? Should I get a cock or cockerel? Should this bird be purchased from the man I bought eggs from?

A. (2) If the pullets are well developed, healthy and vigorous, would breed them in the spring. If necessary, you can breed them to your best cockerel, but we believe you would secure better results by mating the pullets with a yearling cock. The pullets should prove better breeders in their second season, if properly managed. Would state your case to the breeder from whom you bought eggs. Ask him for one or more good yearling hens to mate with your best cockerel and a good yearling male to mate with your pullets. At this time you could probably obtain a pair or trio of birds of same strain and family as your young stock, and at bargain prices. This would give you a fine start in the spring. Do not cross a foreign strain on your stock.

Q. (3) Would like to have the following terms explained so that a beginner can understand them: Pullet mating, cockerel mating, single mating, double mating.

H. E. F.

Kyle, S. D.

A. (3) Pullet mating and cockerel mating are terms applied to different family matings under the double mating system. In double mating, as practiced, there are practically two varieties in one, i. e., one family line in which the cockerels generally come lacking in Standard exhibition color and requirements, while the majority of pullets answer Standard description, is used to produce exhibition females and is spoken of as a pullet mating line, or family, or strain; while in the cockerel mating line the males are Standard and the females are short on Standard exhibition qualities, this family line and mating being used to produce exhibition quality males. The cockerel mating family line and the pullet mating family line, in order to secure the highest percentage of exhibition specimens of the desired sex, are each kept distinct as if different varieties and are not crossed. However, we believe that a skillful breeder could take stock from either family of a double mating and work it into a strain that would develop a fair percentage of good quality in both sexes or of either sex, as he might desire and work for. The single mating is one in which a single family, usually with females and males both, close to

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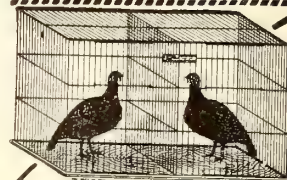
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Standard requirements, is bred to produce good exhibition quality in both sexes in progeny.

While the double mating advocates in most varieties may go to extremes, practically creating two separate varieties within one, it is also true that the single mating breeder, altho he may breed but one family line or strain, cannot avoid making several different kinds of matings in his yards and some of them extreme ones. While some birds will be produced that score high in Standard quality, and rare specimens may be produced that will seem to be in advance of the Standard, all specimens will show some defects and some of them will present a good many defects and still prove good breeders. Breeding is an art which calls for knowledge of what is behind the birds and skill in mating them so as to balance defects with strength. We will find many different kinds of mating in any fancier's yards—be he double or single mating advocate—and generally we will find some extreme matings that are yielding good results. By extreme matings, we mean that either one or both sides of a given mating might be counted decidedly defective when appraised by the Standard, yet the breeder,—from his knowledge of the birds and their blood lines and his experience in mating,—expects, by carefully balancing defects on one side of the mating with strength on the other, to obtain a good percentage of specimens of Standard quality in the progeny.

Eye Troubles—Sitting Hens—Size of Eggs.

Q. (1) There are a few points I wish to discuss not from the beginner's viewpoint but problems that baffled this year for the first time in a long experience with fancy fowl. A flock of chicks from eggs sent by one of our foremost breeders, fed carefully and well housed, began to exhibit eye-trouble about the seventh day. There was no symptom other than the sealing of the lids. At first I greased the lids with a bit of olive oil, but after a few days even this would not keep the lids open. The chicks naturally became emaciated and in a short time died.

A. (1) Eye trouble of this sort is liable to occur in long continued damp, or wet, warm weather. Mouldy or musty litter, runs, food, or anything musty in chicken quarters may start the eye infection. Sometimes caused by irritating dust or use of strong disinfectants, but dampness and mustiness are common causes. Removal of cause is, of course, the remedy and method of prevention. In very damp seasons it is difficult to keep things free from mustiness.

When trouble is first noticed, cleanse the eyes with a weak solution of boric acid—about a level teaspoonful in eight ounces of water. Use freely. If this does not promptly relieve the "wet eyes" or "gummed eyes," cleanse eyes first with a 3% solution of boric acid in water, then with water alone, and, with a medicine dropper, drop into each eye a few drops of a freshly prepared 25% solution of argyrol. (Obtainable of your druggist). Repeat twice a day until there is improvement, then less frequently until a cure is effected.

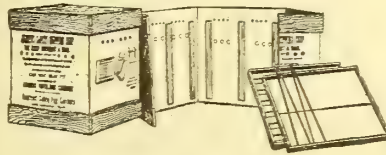
Q. (2) Sitting hens seemed to have a strong tendency to bowel derangement. Tho perfectly healthy, fed on whole corn and well dusted for lice, several developed such a looseness of the bowels



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"Ideal" TRAP NEST

Shows which hen laid the egg. Highest efficiency, least attention, lowest net cost. Write NOW for prices and proof.

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"NARROW BARS"

Barred Rocks

America's Richest Appearing Strain
GRANT STURMAN, Mt. Carmel, Ill.

that they were unable to retain excreta until off the nest, and befouled the eggs so frequently that it became necessary to remove them. None of these birds was set beyond the time of one hatching and was not confined to the nest, i. e., she could feed and exercise at will.

A. (2) Musty food, dampness, and lack of sufficient exercise when off the nest, also too much sameness to ration and consequent indigestion. Infection from fouled floor or earth is also a common cause. Make your runs for sitters long and narrow, with nest at one end and food at the other, to compel exercise. Much of feeding corn is poor quality and has been treated to make it appear bright and then kiln dried to preserve it. Poor corn is a common cause of trouble.

Q. (3) Can the size of eggs be regulated in any way? Many of the yearling hens laid rather small eggs for long periods at a time. Would this indicate insufficient feed?

A. (3) To a limited extent size of eggs can be improved by good and liberal feeding. By selection in breeding, breeding from fowls that habitually lay large eggs, you can improve size of eggs.

Q. (4) Purchased a prize-winning hen, yearling, and she was shipped from New York to Saint Louis. Tho in good condition apparently, the bird never laid an egg and after some months died. The only peculiarities about her were slow, deliberate movements, a disposition to remain apart from the flock, and a lackadaisical, languid expression. She was never greedy for food, yet very fat and heavy behind. On dissecting her I found what looked like a tumor or at least an ovary had become enlarged so as to look like one. This was slightly more central than an ovary is usually located. On opening it, the surface was striated yet firm like a hardboiled egg. There was no sign of an egg save a few clusters no larger than pin-heads. The fowl's liver was very large and she excreted a yellowish fluid.

A. (4) Bird had diseased ovary. Tumor and heavy, pendant abdomen may have been caused by obstruction of oviduct. There is no cure in such cases. Usually the condition is not identified until after death of specimen.

Q. (5) Please compare the practical values of crude carbolic acid and crude petroleum. Is the former perfectly safe to use on the interior of coops for little chicks when allowed to thoroughly dry in before the coop is used? I can obtain the carbolic more cheaply than the petroleum. Reference is made here to the lice and mite killing properties.

A. (5) Crude carbolic acid is obtained from coal tar, is chiefly a mixture of cresol and phenol,—a dark, oily liquid having a strong tar odor. It is poisonous and will burn and is not adapted to use on fowls or where their bodies will come in contact with it. It is used as a disinfectant. As a spray to get rid of red mites it may be mixed with kerosene in the proportion of one pint of crude carbolic acid to one gallon of kerosene. It may be prepared for use with water as a disinfectant in following manner:

Procure one pound of concentrated lye, 3 quarts of raw linseed oil and two gallons of crude carbolic acid. Dissolve the lye in a small quantity of water; give it time to dissolve so as to use as little water as possible, and while you are waiting get ready a five-gallon stone crock with a wide mouth and also provide a stirring paddle.

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says the rat—and he does! He prefers it to all other food and it is the last he eats. RAT SNAP chemically mummifies the carcass. Prevents all odors. Does not dry up, soil, decay or blow away. Not mixed with other food. Ready for instant use. Surest, quickest, safest, cleanest, most convenient and sanitary method of exterminating rats and mice.

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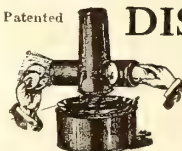
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Best built—double walls, hot water heat, copper tank. Full equipment—lamp, regulator, thermometer, etc. Freight Paid. Order today on Satisfaction or Money Back Guarantee—or write for literature. We make Brooders, too.
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S. C. W. Leghorns, Light Brahmas and Barred Rocks. Real quality throughout. Send for catalog.

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Single setting rate May 1. Write for mating list.

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Eggs for hatching from both matings, \$5 per 15. Satisfaction guaranteed.

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Won at Buffalo, the past 5 yrs., 4 firsts and 3 seconds on chks., 3 firsts and 3 seconds on pils., and all firsts on hens. Choice birds, or eggs for hatching.

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Eggs for hatching from my Milwaukee winners at bargain prices. Satisfaction guaranteed. Write today.

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Pour the linseed oil into the crock and then slowly add the lye solution, stirring constantly. Keep stirring until you have a smooth liquid soap. Now gradually add your crude carbolic acid, stirring constantly until you have a smooth, clear, dark brown liquid. This is your "saponified cresol," a disinfectant fluid that will mix with water in any proportion. For use as a disinfectant about occupied poultry houses, use two tablespoonfuls of this disinfectant to a gallon of water. To clean incubators, or brooders, or equipment, before storing them away until another season, use the solution double strength, or four tablespoonfuls to a gallon of water.

Crude petroleum (mineral oil, rock oil, Seneca oil) is a dark-yellow, brownish, or greenish-black oily liquid. It has antiseptic properties and is used externally in skin diseases. It is valuable for ridding roosts and drop boards of vermin. Applied to poultry house floors with an ordinary sprinkling can, it lays the dust, destroys disease germs and helps to insure freedom from lice and mites. Altho it will stain the feathers when birds come in contact with it, crude petroleum is comparatively safe to use about the poultry house, both as a disinfectant and as a vermin destroyer. Apply to roosts in the morning, so that it will dry in before roosting time. When used for painting interior of nests, leave the nests in the open air until thoroughly dried out.

Q. (6) In a flock of chicks was a runt which did not develop until long after the others. Then she spurted and made the best pullet of the lot—from a fancy viewpoint. Would it be unwise to breed from this bird? Was it possible that worms could have retarded her growth? I have never seen worms offered as the cause of poor development but once and am curious to know if this was merely a "sensational appeal."

St. Louis, Mo.

H. R. D.

A. (6) It is possible that worms were cause, but if such was the case it seems strange that others in flock were not affected. The pullet may simply have been a weakling at start and not equal to fighting its way with the rest of the flock. While we do not believe in breeding from birds that do not develop well, or that are freaks of one kind or another, we can see no reason, if you care to bother with the pullet, why you should not breed her and keep a careful record of her progeny. If the results are not good you can easily stop the experiment and get rid of the birds.

Correction.

In the article "Hail to the Beautiful White Orpington" by S. B. Brennan, on page 918, July A. P. J., first column, the paragraph beginning "The White Orpington, altho a heavy fowl" should have contained the following statement:

Six pullets picked out at random laid 135 eggs during the month of December. The average of these six pullets was between 155 and 160 eggs each per year and the flock average of 35 hens and pullets was above 135 eggs each per year.

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White Leghorns

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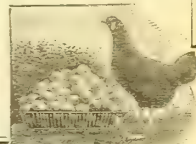
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They simplify the whole problem of good living at moderate cost. They are acknowledged "BLUE" and "SPECIAL" ribbon winners and marvelous producers of LARGE WHITE EGGS—unsurpassed for quality and flavor. As a table fowl they are delicious. Am quoting introductory prices on 1916 hatched yearling males, fine laying hens, pullets, and on exhibition and utility quality pens. Tell us about your ideas—we will help you. Write us today.

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sons and daughters of our Madison Square and Boston champions. A splendid lot of chicks grown right and from stock mated right.

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White Orpingtons

Our strain is noted for its heavy laying and prize winning qualities. Write for prices on exhibition and breeding birds. We have the quality you want.

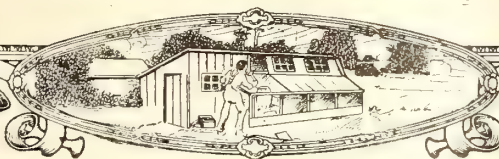
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Readers Experience Department



A Boy's Success.

BELIEVING that the study of breeding and rearing poultry is one of the most interesting and instructive for the youth on the farm and thinking other boys might profit by my experience, I decided to write about it for the JOURNAL.

1915 was a banner year in my work with poultry, tho I must admit my years have not been many. I am a high school graduate of seventeen, but I have been reading poultry journals and exercising my love for poultry since I was a small youngster. My advent into the ranks of prize winning exhibitors came last January, when to my great surprise and joy I learned that I had won first prize and shape special in a class of thirty Barred Plymouth Rock males at the

Peoria Coliseum Show, Peoria, Ill., J. C. Johnston judging the class. However, it is but fair to say that this bird was not of my own breeding, as were the other birds I exhibited.

In my particular variety, mating is a big problem for any breeder and especially so for the novice. Nevertheless I have been fairly successful in my methods of mating. First of all, I have considered the health and general condition of the birds, knowing that this is of the highest importance in the production of fertile eggs and healthy, livable chicks.

The birds in my pens have the run of a large orchard and consequently did not lack for green food during good weather and when conditions were not suitable for out-of-door grazing, the

flocks were supplied with cabbage, beets and waste apples. I keep them well supplied with corn, wheat and oats, as well as bran, beef scraps and oyster shells. At noon each day they get a little variety in the way of table scraps. Water always before them. The housing I have had to use for them is not of the best, but I have made it a point to see they were well supplied with fresh air, even tho the method employed is crude.

Due to the fact that I can be with my flock a good part of the time, I have learned to know some of the best hens' eggs and have been able to pedigree the chicks from ten or fifteen of the hens. During the cold weather I gather the eggs four times daily to prevent their chilling, as I endeavor to hatch out a good number of early chicks. The eggs intended for incubating are kept in a cool room where there is no danger of freezing. I place these eggs on a layer of excelsior, but do not allow the eggs piled one on the other. I use both incubators and broody hens for hatching purposes—but favor neither! In fact, I sometimes combine the two methods. The chicks are fed after the following method: When thirty-six hours old a mixture of hard boiled egg and oatmeal is given and fed thereafter about six times a day for a week. I then give mixed grains, chick size, in clover chaff. Water is kept before them at all times and they are supplied with a run of fine gravel. As the chicks increase in size, coarser ground grains are supplied and they are not fed as frequently. They have a fine grass run in the orchard all the time, where there are plenty of windfall apples during the summer and late fall. I use a few good mothers for rearing chicks and the rest are brooded by means of fireless brooders. About the orchard I erect shelters where the chicks may run if overtaken by a sudden shower. Notwithstanding this, I lost a number of chicks last season thru heavy drenchings. These were mostly chicks that were slow in feathering. During the summer I encouraged the largest ones to roost on out-of-door roosts and they showed the effect of this treatment in splendidly developed bodies and glossy plumage.

In the late fall, during corn husking time here in the corn belt, my birds all received an abundance of corn and en-

Want Winter Eggs? Then Get Busy Now

Egg prices are rising—will soon reach the high point of the year. Winter eggs pay big profits, but you can't get them by wishing for them. Act! Have your hens laying well when eggs mean money. At this time every bird in your flock needs

Pratts Poultry Regulator

the *Guaranteed Poultry Tonic and Conditioner*. A natural egg-maker—makes hens want to lay. It tones them up—increases appetite—assists digestion—stirs up the sluggish egg-producing organs—drives the hens to the nest—insures profits for you.

Pratts Poultry Regulator will keep your old hens laying steadily until they molt, then shorten the molt and hurry them back to work. It will push your pullets to early maturity, start them laying sooner than usual and keep them at it all winter.

America's original poultry conditioner—imitated but never equalled. Small in cost—great in results. Sold by dealers everywhere on a money-back guarantee to satisfy you. In packages, pails and sacks. Refuse imitations. If your dealer does not have Pratts, write.

Pratts Poultry Disinfectant is non-poisonous and pleasant to use. Inexpensive, too. It will keep your poultry house sweet and clean, kill disagreeable odors, exterminate disease germs and protect the health of your fowls. You will also find it excellent for use in the home wherever a safe, powerful disinfectant is needed. Chicken lice just naturally hate **Pratts Powdered Lice Killer**. Try it and you will see why!

Write today for 66 page
Poultry Book—FREE.

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Double-Quick Grain Sprouter

The Original, the Pioneer of all Sprouters. Cypress case outside, Metal grain chamber inside, heat flues between. Six sizes, — 1/4 bu. to 8 bu., — a few hens to 1,000.

Colfax

Metal Sprouter

Built in sections. Add sections as your flock increases. Write for complete information on **SPROUTED OATS and EGGS** to the oldest and largest sprouter factory in the U. S.

Close-to-Nature Co., 38 Front St., Colfax, Iowa

tered on the long cold winter with sufficient fat to help them resist the cold. When the show season came around, I made a mistake as to the date of the show where I proposed exhibiting my birds and so did not prepare them as I probably should have, had I known the show was coming off so early. However, the birds I exhibited were in such good healthy condition and so used to being handled as the result of the kindly treatment they always receive, that they did not really need much prinking or training for the show room and made my heart glad by coming out victorious.

I would like to say for the benefit of other boy exhibitors that altho my methods were far from ideal, I believe any one may do as well as I did my first year as an exhibitor if he will only try hard and is possessed of the proper love and knowledge of his birds.

Morton, Ill. RUFUS J. RICH.

Chronic Complaining.

I would like to say a few words in praise of AMERICAN POULTRY JOURNAL for the stand it has taken in opposition to the chronic complainers. If there is any one thing that will hurt the poultry industry it is the columns of complaints that have been published in some of the poultry periodicals during the past few years. The day has passed when the general public were willing to listen to drawn out recitals of all the aches or pains of yourself and family and troubles your "in-laws" have inflicted upon you. Such complaints even when ridiculous as many I have read lately have been, make very monotonous reading.

Along this line, here is something well worth remembering. The idea is not original with me, but I have forgotten where it originated, but I would like to have all poultrymen and women remember it for the good of the fraternity, and some of the chronic complainers better paste it in their hats. Here it is:

"It does not take a smart man to find things to complain of, but it does require a man out of the ordinary to overlook drawbacks and find those things which are worthy of praise and support."

It is also worth noting that the chronic complainers seldom, if ever, have a remedy worth offering and that as a general thing their complaints and investigations are brought about in hopes of blinding others to their personal weak spots. Following AMERICAN POULTRY JOURNAL's stand, I would like to suggest a slogan: "Look for the Good" among poultrymen.

Baltimore, Md. FRANK ARLINTON.

The S. C. White Orpington—Why?

Five years ago, when I started in to breed White Orpingtons, it was my opinion that any breed bred right was a good breed, and I still believe it; but after my five years of handling White Orpingtons, I have come to the conclusion that it is a leader among the breeds.

As I am a back-lot poultryman and have in my home town quite a number of chicken fanciers, I have been in a very good position to judge the good points of nearly all the popular varieties. It is my opinion that there is not another variety that can compare with the White Orpington in its grand massive bearing and white plumage. They are among the most admired birds in the poultry shows, with their huge



Help Your Hens

prepare for molting after the strain of heavy spring and summer laying, and the weakening heat of summer.

PUT

Conkey's Poultry Tonic

IN THEIR FEED.

Renews their vigor, helps them over the molt quickly and prepares them for profitable fall and winter laying.

Buy it in pails . . . \$1.25, \$2.50
In packages . . . 25c, 50c, \$1.00

Your money back QUICK if any Conkey Remedy ever fails. Send 4 cents for Conkey's big 80-page Poultry Book. Explains molting, winter eggs, and other poultry problems.

THE G. E. CONKEY CO.
1000 Conkey Bldg. CLEVELAND, O.





Egg-o-hatch

A new invention by Geo. H. Lee
Maker of Lee's Lice Killer, Germozene, Egg-o-latum, etc.

Applied to eggs during incubation, it strengthens the chick and weakens the shell, so that at hatching time you have a strong chick and a weak shell instead of a weak chick and a hard, tough shell that causes so many to die just at hatching time. Also eliminates moisture troubles.

Egg-o-hatch means better hatches and stronger chicks

It is easily proven. Apply to half the eggs and run the other half as usual, then note results. Fifty test hatches gave average of 96 per cent for Egg-o-hatch eggs and 81 per cent for eggs not treated, right in the same machine. Last five summer hatches average 95 per cent and 67 per cent. For 5 cents to cover mailing, we will send one sample with full directions free, sufficient for 50 eggs. A full size package will run 600 or 700 eggs one hatch, or three 200 to 250-egg hatches. 50 cents postpaid, or at dealers.

GEO. H. LEE COMPANY, OMAHA, NEBRASKA



The Famous Vigorous Strain

HOMESTEAD SILVER CAMPINES

We have for sale, at very reasonable prices, many beautiful and vigorous birds, both males and females. We have a large stock of the finest youngsters coming along this year and naturally need the room and houses in order to care for these birds, therefore we are offering to the lover of Campines an excellent opportunity to purchase many of the breeders that have produced these wonderful youngsters and we trust you will accept the proposition and lose no happy day. Our new and beautiful 1916 catalog may interest you. Our young stock will be ready for shipment about September 1st, but do not overlook the parents, for among them are many remarkable prize winners. **Homestead Campine Farm, Box A, Wayland, Mass.**

1st Pen Male
Syracuse, 1915

The Poultry Band



That's Different

Made of Aluminum and Celluloid. It will stay on, and the numbers will not scratch off. Eleven different colors. Numbers run to 1000. Made also for Baby Chix and Pigeons. Price 3c each, or \$2.00 per 100. Free catalog and free sample. Double number bands when desired.

M. M. BRUORTON (Successor to F. A. Marshall)
231 Salem Street WAKEFIELD, MASS.

Barron 254-Egg Strain Cockerels

from Tom Barron Champion S. C. W. Leghorns imported by me. Must make room for my pullets. 50 cents added each month after October first. **\$1.50 up.**

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COAT YOUR ROOF with

Atlas Asphaltum Paints in colors.

Save the price of a new roof by renewing the life of your old one.

Write for prices and particulars to

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Glory-Anna S. C. Wh. Leghorns

Write for catalog and prices.

GLORY-ANNA POULTRY YARDS

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BABY CHICKS; 10 Varieties

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Ward's Champion Dark Cornish

(Exhibited as Ward & Chilvers.) Beg to announce summer sale of tested breeders at reduced prices. Cornish Fashion Book ready. Tells all about them. Red stamp appreciated. John W. Ward, Jr. Box 7 Pennington, N. J.

Grant's White Rocks

Stock For Sale.

JOHN GRANT RICHMOND, ILL.

Howison's Buff Wyandottes

Blue ribbon winners at San Francisco and both Chicago shows. Stock for sale.

CHARLES HOWISON, Box 20, Sandwich, Ill.

S. C. BROWN LEGHORNS AND PARTRIDGE PLYM. ROCKS

Stock For Sale.

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Fogg's Single Comb WHITE Leghorns

Bred to lay. Get our special prices on breeders and cockerels.

N. V. FOGG Box R MT. STERLING, KY.

Speckled Conrad's Sussex Red

Stock and eggs in season from these grand winter layers.

E. K. CONRAD SX Street, Hackensack, N. J.

Taylor's Wh. Wyandottes

Good breeders for sale cheap.

GEO. TAYLOR R. R. 11 URBANA, ILL.

Single Comb White Leghorns and White Wyandottes

Cleveland Winners. Stock for sale. Circular free. H. C. & C. W. SIXT WEST PARK, OHIO

Gassmann's White Orpingtons

Eggs for hatching from Chicago and Illinois State Fair Winners. Mating list free. HENRY GASSMANN

502 S. Fair St. Olny, Ill.

Mention AMERICAN POULTRY JOURNAL when writing to advertisers.

bodies, wealth of plumage, and symmetrical lines; they attract more attention than any of the other varieties.

Some claim that they do not like the white plumage, it is so hard to keep clean; when you hear a statement like that, look to this breeder's pens and runways and I believe you will find why he does not like white plumage; filth and white plumage do not combine for beauty. If you will keep pens and runways clean, renew the litter often, and whitewash at least twice a year, there will be no trouble in keeping the white plumage clean.

In the winter I get more eggs from my Orpingtons, as compared with the breeders of the other varieties here; first, because the Orpington is naturally a winter laying variety; second, because of the care and study that I give my birds. In the summer they lay as well as any, and for the month of April my flock has averaged seventy per cent. Then when I kill an Orpington for eating they make a meal in the meat line for a good sized family. Also when dressed for the market they do not present the unfinished appearance that the darker varieties have on account of the dark pigments.

The Orpington breeders are all acquainted with the fast maturity of the Orpington chick, and when this knowledge becomes general, coupled with the other excellent points of the Orpington, we can have no better proof that the White Orpington as now bred by our best fanciers is a fowl which will pay the utility breeder as well as the fancier, and it will continue to be popular with that largely increasing number who wish the "dual purpose fowl."

I admit that the White Orpingtons are not as perfect in the exhibition line as some of the older established breeds. There is still a slight top color to the males, and around the hackle of the females; the combs are a little weak, not quite as firmly fixed as they could be. This is an incentive to the real breeder rather than a drawback. Stay white plumage and good combs are here on the individual birds and will soon be on the entire flocks.

In summing up, I would say that we do not want an Orpington of the Cochon type, neither do we want a hybrid possessing, as some would have us believe, the egg laying proclivities of the early type. Let us insist on the true Orpington characteristics, then we will have to go a long way to find a grander looking bird to suit the fancier, and a better "dual purpose fowl" to suit the utility man, than the S. C. White Orpington.

Augusta, Ga. LOUIS C. GERCKE.

More and more the world will be ruled by its intelligence, and intelligence does not countenance anger. It is a waste of good material—energy needed by the individual in constructive work. By and by, we will learn that the man easily provoked to wrath, belongs with the state's other dependents—the criminals and insane.

HAYWARD'S

White Plym. Rocks

WINNERS AT BOSTON, 1916.

Write for Prices and Particulars.

W. F. HAYWARD WESTBORO, MASS.

S. and R. C. WHITE MINORCAS GOLDEN CAMPINES

America's Champions. Eggs half price. \$5, \$2.50 and \$1.50 per 15.

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is the most satisfactory animal food for poultry. High in digestible protein and bone—sweet—clean—appetizing—free from oil—uniform—economical.

Makes Hens Lay

Used in the ration at all North American Laying Competitions where world's highest official laying records have been made.

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Furnishes the required muscle and bone-building materials in available form. The choice of America's most successful poultry growers.

Red Star Brand Fish Scrap is made from fresh cod and haddock and carries no oil. Be sure to get this brand. Beware of oily fish scrap which is good fertilizer but not fit for feeding. Red Star Brand is right in every respect and gives universal satisfaction. Samples and Poultry Book FREE.

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The famous APACO FEEDER

Price only \$1.00 Guaranteed

Catalog of valuable poultry appliances FREE on request.

THE NORWICH AUTOMATIC FEEDER CO.
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WRITE Your Name on a Postal

and get our 1916 Incubator Book FREE and postpaid. Shows why Prairie State Incubators "hatch most chicks that live." Contains chapter on Poultry Diseases, also one on hatching and rearing. PRAIRIE STATE INCUBATOR CO. 201 Main Street, Homer City, Pa.

Belle City Now 25 Times World's Champion Incubator

Get the story. My new Free book, money making "Hatching Facts," tells everything. Get all facts, proofs, full particulars, money-back guarantee. My low price will surprise you. Write today. Address Jim Rohan, Pres. Belle City Incubator Co. Box 27 Racine, Wis. Freight Prepaid. 1, 2 or 3 Months' Home Test

NEW BOOK FREE BROWN POULTRY FENCE

Costs half as much as netting, lasts 5 times as long. Get book of freight prepaid prices. Direct from factory. 150 styles of fence, gates and steel posts. Sample also free. Brown Fence & Wire Co., Dept. 3 Cleveland, O.

WHAT HENS NEED

Feed CRY-CO, a purified shell grit. 89¢ Pure Carbonate of Lime. Hard, sharp and cubical, better than oyster shells, need no other grit. Better results, cost 1¢ per pound. Ask your dealer, write for booklet. W. A. REUBEN & CO., ST. LOUIS, MO.

American Poultry Association Convention

(Continued from Page 1057)

the Association. This we present in much condensed form to save space:

BUDGET FOR 1917-18.

Expenses of President.....	\$ 450.00
Expenses of Vice-President.....	150.00
Secretary, salary, traveling expenses, clerical hire, supplies, bond, etc....	5,687.50
Expenses of Treasurer.....	150.00
Expenses of Election Commissioner..	550.00
Expenses of Executive Board.....	1,000.00
Expenses of Welfare, Grievances and Appeals Committee, including salary, clerical hire and counsel fees	525.00
Expenses of Standard Committee....	2,300.00
Expenses of Judiciary Committee....	125.00
Proceedings of 1916 Convention, Publication, \$1,200; postage, \$400.	1,600.00
Bulletin, publication and mailing....	500.00
First edition Plymouth Rock Breed Standard Book, 3,000 copies.....	2,000.00
First edition Wyandotte Breed Standard Book, 3,000 copies.....	2,000.00
Market Poultry and Egg Standard, 5,000 copies	1,725.00

Total.....\$18,762.50

The report of the committee on breed standard books brought up considerable discussion. It appeared to be the opinion of the majority present that the Association is unwise in going extensively into the publishing business and particularly into the production of expensive breed books, which must be sold at a high price in order to show any profit. Owing to the expense already incurred it was decided to go on with the publication of the Plymouth Rock and Wyandotte books and to limit the editions to 3,000 copies of each, owing to present high cost of paper and publishing, and to feel out the public demand for such books before going more extensively into breed book publishing.

A good many members were of the opinion that the Association should secure its revenue from membership fees rather than in attempting to enter the general publishing business for such purpose. Many plans of reorganization were informally discussed by members. The consensus of opinion appeared to be that the life membership fee should be considerably increased and that those who do not desire to pay such an increased life membership be afforded the opportunity to pay annual dues.

One of the most progressive acts of the convention was the introduction and adoption of the following resolution:

WHEREAS, the Federal and State Governments are actively engaged thru a competent organization in disseminating useful and essential information concerning poultry culture, and

WHEREAS, poultry fanciers and breeders have the right to expect and to receive from the Federal and State Governments such aid in advancing the interests of Standard poultry as can be given only by intelligent co-operation with the Federal and State agencies, and

WHEREAS, the members of Congress and of State Legislatures, if they were fully and intelligently informed as to the utilitarian value of poultry breeding, would, unquestionably favor larger appropriations for carrying on poultry work, and

WHEREAS, it is manifestly to the interests of the American Poultry Association to co-operate with these agencies in promoting the interests of poultry culture;

THEREFORE, BE IT RESOLVED, that the President of the American Poultry Association appoint a committee of three to serve without compensation to take such action as may be necessary and to submit its report to the 1917 meeting of the American Poultry Association, outlining in detail methods by which this Association can best co-operate with the Bureau of Animal Industry of the U. S. Department of Agriculture, with the various State and Provincial Departments of Agriculture, and with the Poultry Departments of Agricul-

Ready to Win

Let us furnish you with birds prepared to win at the fall shows. Remember, our Buffs won at Madison Square Garden last winter, 1st Cock; 1st, 3rd and 4th Cockerel; 2nd Hen; 1st and 3rd Pullet; 1st Pen and best display—a record unapproached by any other strain. Look up our wonderful record at Pittsburgh and Syracuse on Monmouth White Leghorns.

S. C. Buff S. C. White

"The Twentieth Century Dual Purpose Fowl"

We have cockerels and pullets from these famous prize winning birds. Better than ever in color, type and quality, sure winners anywhere. Also fine yearlings and two-year olds. We are prepared to furnish pens, trios, and 50 and 100 lots.

Our birds are large, hardy, and vigorous. The pullets mature quickly and are unexcelled as layers. Many of our breeding hens have produced more than 180 eggs during their pullet year. Start now and start right with Monmouth Leghorns—Buffs or Whites. Write at once for price list and full particulars. Tell us your needs. We can help you.

Watts Bros., Owners
John Lockwood, Supt.

Monmouth Farms Box 23
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"STAND PAT"



WHICH?



Stand Pat: Say Sis, You've Been Eating OCULUM

on your feed. Don't you know if you put Oculum on your food it will not give you time to sit down to lay?

If you want time to play,
Stop using Oculum this very day.

Sprinkle ten drops of Oculum on each pound of feed and your hens will shell out the eggs. "My 800 fowls increased from 30 to 398 eggs a day after feeding Oculum 16 days."—Geo. Sisco, Mountain View, N. J. Trial bottle 10c. (240 feeds.) Booklet free. Handled by dealers. Address

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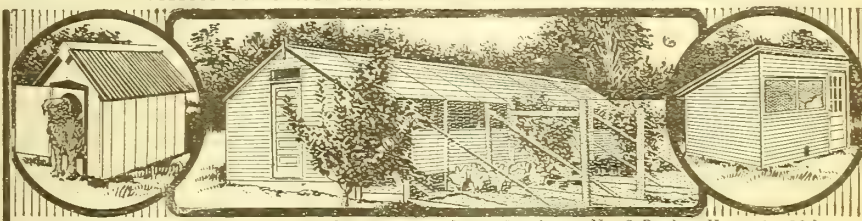
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Pabst S. C. Wh. Leghorns Stock Farm

Harlo J. Fiske, Mgr.
Box C
Oconomowoc,
Wisconsin

DO NOT send your orders for show birds to the East this year. Give us a trial and place your order early. We have the best lot of show cocks, hens, cockerels and pullets that I have ever seen, and we guarantee them to win at any show in the world. A few eight weeks old pullets from trapped, high-record birds are now for sale.

Write for catalog and prices.



Dog Kennel

No. 4 Poultry House for 20 hens—5 units

No. 3 Poultry House for 30 hens

HODGSON PORTABLE HOUSES

The Hodgson poultry and dog houses enable you to take care of the stock with the least amount of trouble. This dog kennel is well ventilated, sanitary and storm-proof. The poultry houses are made of red cedar, vermin-proofed, and are absolutely complete inside. All neatly painted and made in sections that can be quickly bolted together by anyone. Send for illustrated catalog.

E. F. HODGSON COMPANY Room 332, 116 Washington St., Boston, Mass.
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A Fancier's Pride in His Work

We're proud of our birds because of their quality. Proud of our 8 years spent in perfecting this quality. Year by year, as our business has grown, we have discovered new and better methods of breeding, mating, feeding and housing. The four factors that go towards making blue ribbon winners. We want you to know all about "Mirimichi Quality," about our wonderful winnings at the World's Fair, New York, Boston and other shows, so we have prepared a catalog that gives you an insight into our "Quality." S. C. Rhode Island Reds, White Rocks and White Wyandottes. This book is free, so write for it today.

Breeders of Birds that Win, Lay and Pay

MIRIMICHI POULTRY FARM

W. H. Saart, Box 100, FOXBORO, MASS.

FIVE METAL POULTRY FOUNTAINS for the Usual PRICE OF ONE

Our illustrated instructions show how to make a better 2-gal. all-metal poultry fountain for 15c than you can buy for 75c. Our fountains can be made in five minutes, from finished materials readily obtainable. You can have our fountains made up to order for from 25c to 30c each and still save 60 per cent on the cost of ready-made founts. Send 10c for clear, reliable instructions. The Clark Co., 11 Barnes Rd., Newton, Mass.

Faultless Automatic Feeder

\$1.00
Smaller Sizes 75c

**16 Quarts
 Half-Bushel**



This "Faultless" feeder feeds any kind of grain, either mixed or separate. Rotary pendulum motion, absolutely adjustable and cannot clog. It represents the biggest value ever offered in automatic feeders. Furnished complete, including cover and bail, at the following ridiculously low prices, made possible only by our enormous output:

No.	Capac.	Retail Price.	Our Net Price.
151	5 Qt.	\$1.00	\$.75
*152	1/4 Bu.	1.00 2 for	1.50
153	1/2 Bu.	1.50	1.00
154	1 Bu.	2.00	1.75

*Note—No. 152 packed two in box and not sold singly.

Send for complete catalog of fountains, trapezes, feather brooders and other poultry appliances.

SIMPLEX SUPPLY HOUSE

Pontiac Building Chicago, Illinois

"O.K." Poultry Litter

Best and most economical, sanitary and moisture-proof litter for poultry houses, coops, brooders or brooder houses. Lasts for months. Breeders everywhere endorse its use. Order from your dealer or direct. Sample and catalog FREE.

O. K. Company 157 B. Water St. New York

CONVERT YOUR INCUBATOR TO AN ELECTRIC
 Hundreds have done it. Be rid of the oil, smoke, dirt, danger and worry. We furnish you the electric heating equipment. You can install it. Send for circular. Electric Specialty Co., 28 Richards St., Salt Lake City.

EAKIN'S WHITE WYANDOTTES

Get our prices on winners for your fall show.

F. M. EAKIN Box A BUCYRUS, O.

Columbian Wyandottes

Yearling hens and young stock for sale.

Arthur Merrell Solon Mills, Illinois

Hubbard's Peerless Buff Orpingtons

will win for you at the fall and winter shows.

Send for prices on guaranteed winners.
 Charles Hubbard, Mgr. Foxhurst Farm
 Box 52, Lime Rock, Conn.

White Cornish

MOUNTSVILLE FARMS - MOUNTVILLE, VA.

(See classified ad on another page)

SPECIAL SUMMER SALE

of Tom Barron's English S. C. White Leghorns. Cocks, \$3 to \$5. Hens \$2 to \$4. 3-months old chicks, one-half the above price. Satisfaction guaranteed.
 M. H. WAUGH, 511 Loucks Ave., PEORIA, ILL.

BUTTERCUPS

Stock for sale after October 1st.

MRS. HATTIE D. REED
 Chestnut Terrace Maicellus, N. Y.

tural Colleges and of Experiment Stations, in order to advance the purposes for which this organization exists.

Secretary Campbell made an eloquent address urging the adoption of this resolution and that the committee appointed be instructed and empowered to take immediate action in co-operation with government poultry work. The following committee was appointed and instructed to undertake the work without unnecessary delay: Frank E. Hering, South Bend, Ind.; Prof. James E. Rice, Ithaca, N. Y.; Charles D. Cleveland, Eatontown, N. J.

William O. Jennings presented a lengthy report for the Committee of Investigation on Poultry Huckstering. The report as presented to the convention dealt largely in generalities and from it one gained the impression that the investigation proceedings had been mostly "much ado about nothing." Some general allegations were made that huckster dealers made use of considerable exaggeration and misrepresentation in advertising and the committee recommended that steps be taken to distinguish before the public such hucksters and hatcheries as resort to unfair means to secure business and that those who employ fair and square methods be encouraged. We understand that a more detailed report of the investigations has been given to President Richards. After considerable discussion the convention decided to receive the report and to discharge the committee.

It appeared that the Investigations Committee had expended \$485 of its \$500 appropriation, but we did not learn that any positive charges of wrong doing were presented. The members evidently considered that it is much better to leave this sort of investigation and sleuthing to the proper authorities and it was recommended that the detailed reports be examined with a view to turning any real evidence of wrong doing over to the U. S. Post Office Department, so that in case any action is necessary it can be taken by those with authority to act. The committee was apparently very desirous of continuing its activity, but the majority of the convention desired to have it dismissed. Members expressed themselves as deploring the undesirable publicity that had resulted from making public proceedings in such investigations and several delegates, talking on this subject, called attention to the fact that dishonesty on the part of buyers and ignorant or inexperienced customers is quite as much in need of being remedied as similar alleged shortcomings on the part of breeders, dealers, etc. It was urged that the seller quite as often needs protection from the customer as does the latter from the former. It was suggested that a practical campaign along educational and helpful lines is the best remedy for all troubles of this nature and that undue publicity given to unfair complaints is prejudicial to the best interests of all concerned.

Editors De Lancey and Hale arbitrated their differences on the "Rule 17," afterward "Rule 30," covering the advertising-solicitor-judge controversy, before the Executive Board and agreed to settle the matter there for all time and to keep the discussion from the floor of the Convention. Both presented their views in an able manner and held to their agreement. The board disposed of the question by putting the decision in such matters wholly up to the show secretaries most concerned.

BARGAINS

S. C. WHITE LEGHORNS



S. C. WHITE LEGHORNS

4th Cock, Boston, 1916

You want good stock and I have plenty that I shall not use another season. Come to a breeder that is in the game for sport and that is selling the best of quality at prices that are right in every way. You will come again if you try my methods once.

WILLOW TREE POULTRY FARM

H. P. McKean, Jr., Beverly Farms, Mass.

Have you read the

Poultry Doctor?

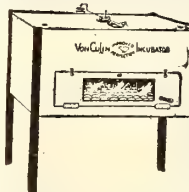
IF NOT, you should have a copy of this valuable booklet. Thousands of poultry people are following the instructions of the *Poultry Doctor*. This booklet contains sixteen different formulas of remedies for diseases common among fowls. It is yours free of charge. Just drop a postal with name and address to

The Licene Company

1500 Pontiac Bldg. Chicago, Ill.

**PRICES SMASHED**

Write for the Greatest Incubator Bargain ever offered, on the most successful incubator ever built.
Old Reliable Incubator
 34 years the standard—holds over 1200 First Premiums, awarded on superior merit. Guaranteed successful in your hands or your money back. Get Free Poultry Book and my low price before you buy.
J.W. Myers, Pres. Reliable Incubator & Breeder Co., Box A-1 Quincy, Illinois

**Von Culin Incubator**

The oldest make on the market. The latest up-to-date incubator. Made of sheet metal. Double and packed walls. Light and compact. Equipped with Von Culin Fireproof Lamp. Thermometer slides thru door. Price to compete with inferior makes. Catalog free.

GEO. WATSON BEACH, Mgr.
 Dept. 15, 126 Liberty St., New York

White Runners For Sale

Only a few left, not the cheapest, but the best.
E. G. CURTIS Box A ATSON, N. J.

Single Comb White Leghorns

Special prices on Cockerels for next season's breeding if taken in July and August.

APPLEGROVE POULTRY FARM Delavan, Wis.

BUCKEYES

Rich Mahogany Chickens with all-purpose qualities—standard bred.
Elton C. Mahon, Norwood, Tenn.

"America's Best" Light Brahmas

25 Nice Breeding Males For Sale.
BALCH & BROWN MANCHESTER, CONN.

The Executive Board made the following report of findings in the Carl Dare and H. M. Jones trial, which occupied considerable time and much discussion. The report was brought up on the floor of the convention and the assembly concurred with the Executive Board in its findings:

"Your Executive Committee has considered with the utmost care and attention all the evidence offered up to and including this date, in behalf of the complainant, Grant M. Curtis, and in behalf of Carl Dare and H. M. Jones, the accused parties, in the matter of the charges regularly filed with the Committee of Grievances and Appeals of this Association, such charges having been referred to this Executive Committee. And your Committee is of the opinion and hereby rules and decides that the evidence brought forth by complainant is not sufficient to justify the expulsion of said Dare and Jones from the American Poultry Association.

"However, your committee is of the opinion that inasmuch as the complainant is ill and unable to attend the sessions of this committee and as it has been said that further evidence may be filed, therefore your committee recommends all the subject matter and evidence in these cases, except the prayer in the petition for the expulsion of said Dare and Jones to said Committee on Grievances and Appeals for such further action in the premises as it may deem advisable.

"Your Executive Committee also desires to state at this time that it is unalterably opposed to the publication in the poultry press or thru any other means of publicity of any charges against members of this Association prior to and in advance of the filing of regular charges against such members as provided by the constitution of the American Poultry Association and the hearing of such charges by the proper committee or committees of the American Poultry Association.

"Your committee calls attention to the fact that said constitution provides a regular and orderly manner in which charges may be preferred against members, which charges will be heard by the Committee on Welfare, Grievances and Appeals, and if necessary by the Executive Board, and a decision subsequently rendered, after all evidence has been presented by both sides, in accordance with the usual rules of procedure; and your Executive Committee believes that until said Committee on Welfare, Grievances and Appeals shall report its findings upon any such charges that no member of this Association should assume the privilege of making public the whole or any part of such charges; and your Committee deprecates the fact that in the cases of said Jones and Dare, publicity has been given before your committee had the opportunity of hearing such charges."

R. G. Bailey of Lewiston, Idaho, introduced a resolution as follows:

"Resolved, that the official stenographer be and he is hereby instructed to, at this and future conventions of the American Poultry Association, make note of every resolution, motion, speech, comment, or other spoken words of the delegates and, after the convention, to transcribe the notes and make three copies thereof, which shall be turned over to the Secretary, by him placed in the archives of the American Poultry Association and constitute its official record. That a committee of three, of whom the Secretary shall be one, shall be appointed by the president to make a condensed report of the proceedings comprising only resolutions, motions and seconds, and that as soon thereafter as convenient this condensed report shall be printed in the Quarterly Bulletin of the American Poultry Association. That any member in good standing who desires a full report, or any part thereof, of the proceedings, shall be furnished a certified copy thereof by the Secretary at the actual cost of making such a copy."

This resolution was discussed at length by the Executive Board, but was not referred to the Convention for action. It is a step in the right direction, means a considerable saving to the Association, as well as a more accurate record of proceedings than the customary edited and expurgated edition, and this or some similar resolution should be acted upon favorably at an early date. The appropriation for publishing and mailing the "official proceedings" is \$1,600.00 and this should be an easy and desirable way to save at least \$1,000 annually.

U. R. Fishel was re-elected treasurer by the Executive Board. O. L. McCord was unanimously returned to office of election commissioner by vote of the entire convention and responded with an appropriate speech.

The following committees were appointed:

Finance Committee—President E. E. Richards, John S. Martin, Henry Steinmesch. Welfare, Grievances and Appeals Committee—Earl Hemenway, A. C. Hawkins, H. H. Collier. Judiciary Committee—Arthur A. Peters, Frank E. Hering, Grant M. Curtis. Legislative Committee—J. D. Veach, Frank E. Hering, Robert Seaman. Education and Experimentation Committee—Mrs. Florence Forbes, Harry M. Lamon, James E. Rice. Standard Committee—Grant M. Curtis, E. E. Richards, W. S. Russell, W. R. Graham, A. C. Smith.

The following poultry judges licenses were granted:

General—A. T. Modlin, Topeka, Kans.; Walter Burton, Arlington, Texas; William Miller Higgs, Victoria, B. C.; W. A. Bonner, Casanovia, Mich.; J. F. Nelson, Grove City, Pa.; R. L. Leitch, Van Nuys, Cal.; G. W. Masterson, Duarte, Cal.; Chas. A. Greenfield,

Butte, Montana; M. L. Andrews, Bryant, Mo.; Wm. H. Allen, East Providence, R. I.; Wm. F. Auerwald, Harmerville, Pa.; W. H. Laabs, Waupaca, Wis.; H. D. Reid, Victoria, B. C.; Walter T. Bowers, Honey Grove, Texas; William Walker, New Westminster, B. C. Special Licenses—Fred A. Poertner, Berea, Ohio, Orpingtons and all Buff varieties; Rufus Eldridge Bruce, New Orleans, La., American and Mediterranean; John W. Zimmer, Anchorage, Kentucky, American, Mediterranean, Asiatic and Bantams; Herbert V. Tormohlen, Portland, Indiana, Mediterranean; Olin Colip, Atlanta, Indiana, all Wyandottes; Frank C. Cole, Van Wert, Ohio, American and Mediterranean.

A poultry business survey committee to report on business conditions in the poultry industry at next convention was appointed, consisting of: Frank B. White, E. C. Lowry, A. G. Philips.

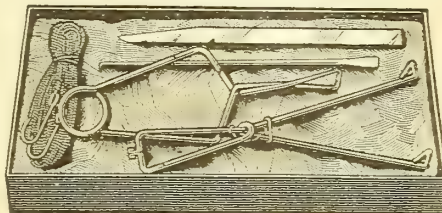
Invitations for the 1917 Convention were received from Pittsburgh, Penn.; New Orleans, La.; Louisville, Ky.; St. Louis, Mo.; Milwaukee, Wis.; Buffalo, N. Y.; Ashville, N. C.; Washington, D. C.; Norfolk, Va.; Providence, R. I., and for 1918 from Butte, Montana.

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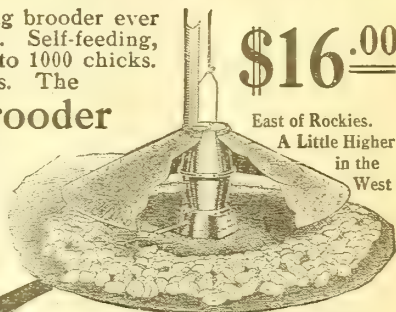
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will do anything any other brooder will do regardless of price, and do it better. We sell it on thirty days' trial. Write your own guarantee. Beware of imitations.

Book of Proof—Free. Write for it or ask your dealer. Some territory still open. Write for proposition.

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Leading winners at Philadelphia, Chicago, Allentown, Hagerstown and other shows.

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I offer several hundred head of fine birds out of my matings at less than half price, either show birds or fine stock birds. Eggs now \$1.50 and \$2.50 per setting. Golden Sebright eggs at \$3.00 setting. Large circular.

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White Wyandotte Farms

are now disposing of some very choice breeders and also selling strong fertile eggs at reduced prices. Send for mating list.

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ROSE AND SINGLE COMB RHODE ISLAND REDS

Are you going to show this season? Do you want to win? If so, buy your Reds from a breeder of experience. Never had better youngsters than this year. We will ship anywhere on approval upon the receipt of 40% of purchase money. Remember, I have no other breed. Write your wants.

RED TOP POULTRY FARM, John G. Spencer - Route 2 - SHARPSBURG, PA.

MONTHLY PRIZE CONTEST DEPARTMENT

The American Poultry Journal offers the following prizes monthly for the two best articles received on or before the fifteenth day of each month: For the best article, a prize of Three (\$3.00) Dollars will be awarded; for the second best article, a prize of Two (\$2.00) Dollars will be given. Articles intended for the Contest must be written on one side of the paper only and should not contain less than 1,000 nor more than 2,000 words. The articles may be written on any subject pertaining to poultry culture. We reserve the right to retain all articles submitted and to publish such as we deem worthy of space. Send all articles plainly marked to Contest Editor, American Poultry Journal, Lock Box 4, Silver Lake, Mass.

NET COST OF PRODUCING EGGS

Being Figures Taken From a Twelve Months' Record of a Flock of Hens From One to Six Years Old. First Prize Article American Poultry Journal's Monthly Contest.

By FRED M. ROBINSON, Dallas, Texas

MY OVERHEAD and fixed expense is as follows:—Labor, feeding and cleaning house 10 minutes per day at 15 cents per hour	\$.75
One hour per month, marketing eggs .....	.15
10% depreciation on equipment of \$35.00 .....	.29
5% interest on investment of \$100.00 .....	.41
Total	\$1.60

Actual time for feeding and watering in morning takes one and one-half minutes, at night feed, water and gathering eggs, three and one-half minutes. I buy my grain in lots of six hundred pounds and it is put in trunks and is ready to feed without handling. Feed, water and nests are close together so there are no extra steps or lost time. I use drop boards and clean every two or three weeks, this takes twenty to thirty minutes.

Disinfecting, etc., takes balance of time. I have three customers that take all the eating eggs I have to spare. They would come for eggs but I can save time by delivering to them once a week. I ride a wheel to and from my work and do not have to go out of my way at all to deliver, only from the street to the door. My grocer brings me peach and tomato baskets that hold three to five dozen eggs and I use those for delivery.

My hens are housed in cheap open-front house covered with roofing ma-

terial, which makes the equipment cost very small.

In order that this report may be better understood, I want to show under what disadvantage I am operating.

I am right in the city, on paved street, a corner lot, 75x150 feet. The back lot used for the poultry is 24x75 feet which has a barn 30x24 feet and a small house 6x10, leaving 45x24 feet for use of pens and yard. This is what I started on March 13, 1908. Later I converted 7x30 feet of the barn to my use. I bought 13 hens at a cost of \$6.50. This is the only money I have ever invested that was not produced by the hens and I now have 120 matured hens and capacity for 150 matured hens and 200 chickens per season.

This was used for a horse lot before I took it and had a layer of cement paving on top of the black dirt and three to five inches of cinders on top of that which I have covered with six to eight inches of mixed dirt. I give this information so that it may be seen that I have to buy all that is eaten as there is no range for the stock. Following you will find my report attached:

RECORD OF F. M. ROBINSON, DALLAS, TEXAS.

Month.	Number Hens.	Overhead Fixed Charges.	Food and Supplies.	Loss by Death.	Total Cost.	Dozens Laid.	Monthly Net Cost Per Doz.	Sale Price Per Doz.
1915.								
May	96	\$1.60	\$ 7.00	\$2.25	\$10.85	88	\$0.123	\$0.25
June	87	1.60	6.50	.75	8.85	72	.123	.30
July	81	1.60	6.25	2.25	10.10	50	.202	.30
August	78	1.60	6.25	1.50	9.35	43	.217	.30
September ...	71	1.60	6.00	3.00	10.60	34	.312	.35
October	68	1.60	6.50	1.50	9.60	33	.291	.40
November ...	64	1.60	6.00	1.50	9.10	27	.338	.42½
December ...	56	1.60	6.25	1.50	9.35	38	.246	.50
1916.								
January	120	1.60	11.85	.75	14.20	59	.241	.50
February	110	1.60	12.30	.00	13.90	99	.140	.42½
March	81	1.60	9.40	1.50	12.50	119	.105	.30
April	70	1.60	9.50	.00	11.10	100	.110	.30
Totals.....		\$19.20	\$93.80	\$16.50	\$129.50	762		

762 dozen eggs produced at a net cost of 17 cents per dozen.

Commercial mixed feed costs per 100 pounds	\$1.75
Bran costs per 100 pounds	1.35
Steel clipped chops costs per 100 pounds	1.75
Oyster shells costs per 100 pounds	1.50

I feed my own lawn clippings, but do not make any charge of this as they have to be disposed of and it saves carting expense. I have not taken any salvage on sacks at five cents each returned to dealer or for fertilizer.

My loss by death is large as I keep my hens as long as they will set (if they are good mothers) as I sell many day old chicks and set 60 to 70 hens per season. I figure them at .75 each. Setting so many hens reduces my egg production but they average 110 to 120 eggs per year at a net cost of \$1.58 per hen for the year and net cost of eggs per dozen, 17 cents.

AN AMATEUR'S SUCCESS WITH POULTRY

A Backlotter Tells How He Supplies Eggs and Poultry for the Family Table and in Addition to This Realizes a Fair Income From His Poultry. Second Prize Article American Poultry Journal Monthly Contest.

By EARNEST F. DRECHSLER
Schenectady, N. Y.

FOUR years ago, when I was married and moved into my home, I became acquainted with one of my neighbors, who had some Rhode Island Red chickens. As I had a lot 70x160 I had plenty of room and decided to have a few chickens to supply us with eggs.

I bought 18 pullets two months old for 60 cents apiece. I had enough lumber to build a coop 6x8 and built a covered open-front scratch shed 4x10 facing south. In these I kept the chickens on rainy days and during winter. After I had the chickens, I started to read about poultry in magazines and

papers, and reading a lot about trap-nests, I decided that as long as I had chickens I might just as well do the thing right. I made four trap-nests out of half-inch lumber and put them in a dry-goods box, which I attached to the scratch-shed. In this way I had nothing in the house itself except roosts, dropping-board, mash-box and water, thereby giving the chickens the whole floor space. As I had never had chickens or did not know anything about them, I decided to go slow and learn as I went along.

In spring with trap-nest records of six months before me I decided to raise my own chicks. As I had never handled any baby chicks, I figured one hatch would be enough. During the winter my 18 pullets had layed enough eggs to allow me to pay \$15.00 for a breeding bird and \$8.55 for a Belle City In-

HURRY Your Pullets Along With BLUE RIBBON LAYING MASH



The High Protein Kind that makes them develop rapidly and get to laying size and condition before cold weather. This is only one of the famous

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Light Brahmas, Barred Rocks, Wyandottes, Toulouse and Chinese Geese, Muscovy and Indian Runner Ducks

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The kind that win, lay and pay. Stock for sale. Eggs: \$2.00 for 15, and \$5.00 for 45.

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Blue Hen Mammoth Incubators

has a capacity three times as great as the whole year's product of any other mammoth incubator manufacturer.

Other installations of the Blue Hen Mammoth for practical poultrymen have led to repeat orders and to the replacement of mammoth incubators of every other make with Blue Hen equipment.

Why? Because Blue Hen Mammoths are superior on every count. **GREATER CAPACITY IN LESS SPACE means minimized cost for buildings.** We can show you how a 6,400 egg Blue Hen Mammoth, measuring only 20 feet, can be placed in your present dwelling, eliminating expense of a new building entirely.

AUTOMATIC EGG TURNER. Every egg turned in five seconds in any square-tray Blue Hen Mammoth—from 800 to 20,000 egg capacity. Slowly, smoothly, easily—just as the mother hen does it—by our Patent Egg Turner. No eggs broken, no germs ruptured.

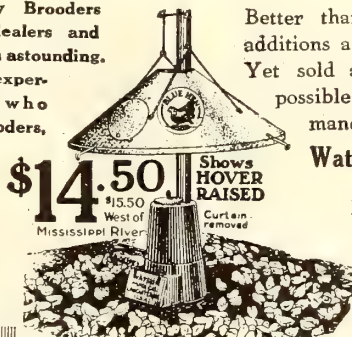
PROPER SUPPLY OF AIR AND PROPER TEMPERATURE IN EVERY COMPARTMENT. Ample moisture—individual regulator for every tray—a real heater, with automatic control that does control—fire is always visible—a unique pre-heated air system. A nursery that is practical. Heavier in construction—durability assured. Easy to add units. No complicated plumbing.

Send for list of users—and testimonial booklet which shows why practical poultrymen in every locality—are replacing other makes with the Blue Hen Mammoth. **CATALOG FREE.**

DEALERS and farmer-agents can secure exceptional opportunity to represent us in unoccupied territory. Easy sales and good profits assured on Blue Hen Mammoth Incubators, Blue Hen Lamp Incubators and the

Blue Hen Colony Brooder

On Blue Hen Colony Brooders alone, the sales by dealers and farmer-agents have been astounding. Men without selling experience and dealers who never before sold brooders, have easily made many profitable sales by showing the Blue Hen Catalog to practical poultrymen.



Better than ever with the 1917 additions and improvements.

Yet sold at the same low price, possible only by increased demand and larger production.

Watson Manufacturing Co.
Drafter 21
LANCASTER, PA.

Now is the time to get the facts—to investigate our selling proposition. The wide-awake man will get the choice territory and the big sales.

RESULT OF POULTRYMAN'S SUIT AGAINST THE AMERICAN EXPRESS COMPANY.

John W. Ward, Jr., Dark Cornish Breeder, of Pennington, N. J., the Victim of a Technicality Growing Out of the Carmack Amendment Regarding Inter-State Shipments.

I FEEL it my duty to relate my experience to brother poultrymen all over the country relative to the outcome of my suit against the American Express Company for the loss of eight of my birds, now almost two years ago, on September 21st, 1914, the birds being smothered during the trip from Pennington, N. J., to Allentown, Pennsylvania, owing to the "one-horse" service given by the American Express Company in transporting them on a day which proved to be exceedingly hot during the middle of the day, the cool in the morning when the birds were shipped. I repeat, I feel it my duty to relate the outcome of the case in order that brother poultrymen may in the future be on their guard more and more, for tho the rulings in the various states may not be the same as in New Jersey, still the decision in my case is likely to be brought up as a precedent in any state and so bring about the same final results as in my case, which came to a very abrupt termination in the Supreme Court of the State of New Jersey, and which I am now reporting to brother poultrymen.

On September 21st, 1914, as above stated, I shipped from Pennington, N. J., to Allentown, Pennsylvania, for the fair to be held in Allentown, by the American Express Company, seven coops containing twenty-nine Cornish birds, among which were John Bull, Uncle Sam, Lady Alice, and five others. They were properly cooped in coops which I had used for the most part of three years previous, with the exception of one coop, built new in 1913, which I had used but for one season, showing at Warrenton, Virginia, and Madison Square, New York, so that the coop had safely carried fowls for a greater distance than from Pennington to Allentown. It is also a striking fact that the newest coop, which had been used but one season, had more cubic inches of air space, per compartment, than had any of the others, yet five of the eight deaths occurred in this coop, plainly showing to anyone with half an eye that the coops must have been stacked somewhere along the road during the heat of the day. Also in the new coop, most of the deaths occurred at one end of the coop, seeming to show that while one end had been left uncovered, the other end had had stuff piled upon it. The birds were shipped from Pennington at 7:37 A. M., but did not reach the Allentown Fair Grounds, but 78 miles distant, until 6:30 P. M. or in other words, the AMERICAN EXPRESS COMPANY put them over the road at the REMARKABLE SPEED of 8 miles per hour, or about as fast as a good WHEELBARROW could make it. Making proper train connections, the birds should have reached Allentown, according to time-tables published at the time, in TWO HOURS AND FIFTY-TWO MINUTES, instead of the time they did make, namely, TEN HOURS AND FIFTY-THREE MINUTES. Certainly an example of American Express SERVICE (?) and EFFICIENCY (?).

I was waiting for the coops at Allentown when they arrived, and it was then found that eight of the birds, of a value of from \$800.00 to \$1,000.00 were smothered.

At the time of shipment no shipping receipt or bill of lading was actually given me, tho as soon as word was received of the death of the birds the agent sent one to my residence, filled up so as to limit liability to \$5.00 for each bird. The birds evidently had been smothered through piling other goods upon their coops, thus depriving them of proper ventilation on a hot day.

The claim was presented to the company, but all they would offer was to pay \$5.00 for each bird lost, the amount stipulated in the bill of lading, which was not actually delivered at the time of shipment. The Express Company having refused to pay anything like a reasonable compensation, suit was brought in the New Jersey Supreme Court April 5th, 1915.

The Courts of New Jersey had decided in the case of Hill vs. Adams Express Company, 82 New Jersey Law Reports, 373; 81 Atlantic Reporter, 889, that where a bill of lading had been given to a shipper with a clause limiting the amount of liability, that the burden was upon the carrier to show that the shipper understood and assented to the limitation of liability contained in the bill of lading or receipt, and that in the absence of proof of this fact the carrier was subject to the common law liability for the value of the goods shipped, if damaged or lost.

In a later decision, November 16th, 1914, in the case of Spada vs. Pennsylvania Railroad Company, 86 New Jersey Law Reports, 187,



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Invest now for immediate profits. We offer business bred pullets:

Leghorns, each..... \$2.00
Heavier breeds, each 2.50

If you want pullets that can and will win, tell us at once where and when you intend to show. We will fully explain our plan of guaranteeing birds to win.

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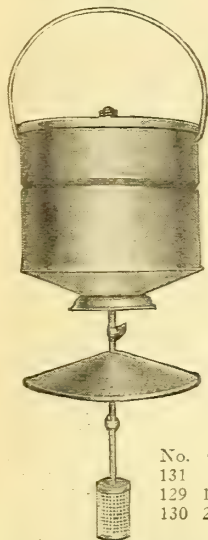
Columbian Plymouth Rocks
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Write us at once. These fine birds are going fast.

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Birds peck at grain in bait carrier, swinging pendulum and grain drops from cup under hopper to deflector and then on ground.

No.	Capacity.	Retail Price.	Our Net Price.
131	6-qt.....	\$1.50	\$1.20
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New designs. All varieties. 16 page catalogue free.

CHAS. L. STILES, Columbus, Ohio

Buff Orpington Specialist

Quality stock at modest prices. Mating list free
A. B. PORTER, Box 4, La Salle, Ill.

Dark Cornish

Shamrock Strain.
Winners at Cleveland, Forest City

Fair and at Springfield Cornish Club Show, winner first pen and Champion pen of show.
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Bawden's Buff Plym. Rocks

SUNLIGHT STRAIN

Send \$5.00, \$10.00, \$15.00, for Cocker on approval.
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Barred Plymouth Rocks, White Leghorns, White Wyandottes, Anconas, S. C. R. I. Reds, Campines, S. C. Wyandottes.

Stock and Eggs in Season.

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Columbian Wyandottes

Winners of 1st pen at Boston 1916. Plenty of good youngsters for sale. A few choice Breeders also.

Prices reasonable.

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COCKERELS AND PULLETS

For Fall Shows. Rocks, Orpingtons, Reds, Leghorns, White Wyandottes.
QUINCY POULTRY FARMS A-2700 Maine St., QUINCY, ILL.

92 Atlantic Reporter, 379, the highest court in New Jersey held that the Carmack Amendment to the Inter-State Commerce Act controlled in all inter-state shipments, and that a shipper's acceptance of an inter-state bill of lading would bind him to all valid stipulations thereof, thus overruling the rule as established in the case of Hill vs. Adams Express Company, above mentioned, so far as inter-state shipments were concerned, but still leaving the law of New Jersey, as indeed I am advised it still is, that in case of shipment within the state, the burden is upon the carrier to show that in accepting the bill of lading the shipper knew of the stipulations and actually assented or agreed to them. This case, I am advised, establishes two different rules in New Jersey, the one applicable to shipments outside the state boundaries, where the stipulation in the bill of lading, if accepted, would bind the shipper, the other applicable to shipments within the state, where the shipper was not bound to any stipulation to which he had not actually agreed. This decision would, however, prevent me from maintaining my suit, since my shipment was an inter-state shipment, but reliance was placed on the fact that no bill of lading actually had been given and accepted, and that the stipulation limiting the liability to \$5.00 per bird was put in the bill of lading after the shipment and attempt made to deliver so as to make it appear that I was bound by the terms of the bill of lading.

The trial of the case was delayed a term or two, and came on for trial in February, 1916. The taking of testimony to prove the loss and value of the birds had started when the court called counsel's attention to a decision of the New Jersey Court of Errors and Appeals, which had been rendered after the starting of the suit in this case, and which had then only been made public a few days before, in the case of Standard Combed Thread Company vs. Pennsylvania Railroad Company, 95 Atlantic Reporter, page 1002, which held that whether the carrier had issued a bill of lading or not, under the Carmack Amendment and the regulations made by the Inter-State Commerce Commission pursuant thereto, the carrier was required to publish and submit with its traffic a uniform bill of lading, and in the absence of a disclaimer by the shipper and the payment of a ten per cent higher rate, the terms of the uniform bill of lading are declared applicable, and inasmuch as the uniform bill of lading submitted by the Express Company and filed with the Inter-State Commerce Commission contained the stipulation that the value of the birds was limited unless a higher rate was paid by the shipper, the court ruled that I was, under the decision of the higher court, without remedy beyond the amount of \$5.00 for each bird lost.

Accordingly the suit stopped then and there, the company agreeing to pay the \$5.00 per bird, while I was forced to see myself deprived of the right to recover the actual damage done to me by the neglect of the American Express Company, owing to the court's interpretation of the effect of the Carmack Amendment in the case of inter-state shipments. At the time suit was started no such interpretation had been made by the New Jersey Courts, and we were proceeding in the belief that I could collect my actual loss where it could not be shown that I had agreed to accept a limitation of the company's liability.

It is thus clear that poultry fanciers shipping across state boundary lines, in order to make sure of being able to collect damages should their birds be lost thru the action of the carrier, must be careful to pay the highest rate of charges established by the uniform bill of lading published with the traffic list filed with the Inter-State Commerce Commission.

I was plainly the victim, as was the American Express Company the beneficiary, of a technicality, growing out of the Carmack Amendment. Had my birds been shipped and lost under exactly the same conditions within the boundary of the State of New Jersey, I could have recovered their full value.

Very fraternally,

JOHN W. WARD, JR.

Secretary-Treasurer American Cornish Club.

Of Interest to Judges

Now that score card judging is taking the center of the boards, breeders who are anxious to enter the field should not fail to take a course in score card judging during the Indiana State Fair, the week of Sept. 7th, 1916. This school has turned out many of the headline judges and at the present time the terms for tuition are very reasonable.

If interested, write at once to Theo. Hewes, 25 W. Washington St., Indianapolis, Indiana, for full particulars. Remember one or two shows will more than pay for your tuition and there is

a big demand for competent score card judges.

For Sale—Cheap

Mammoth incubators, all makes, capacity from 600 to 10,000 eggs; which have been replaced by Blue Hen Mammoth Incubators. Good condition guaranteed. Send for list; tell size and make you especially desire.

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Drawer 21

Lancaster, Pa.

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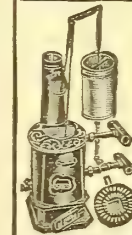
Appliances for the poultry **FACTORY TO CONSUMER.** Yard are sold direct from Automatic Feeders, Feather Brooders, Sanitary Fountains, Trap Nests, Grit Boxes, Feed Hoppers, Exhibition Coops, Incubators, Feather Hovers, etc., AT WHOLESALE PRICES.

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Chickens
50 for 25c

Any Size
No's. 1 to 50

We want you to get acquainted with our useful poultry appliances and for this reason we are offering 50 self-locking rust-proof leg bands—embossed numbers, 1 to 50, at the special price of 25 cents. Postpaid. State variety you prefer when ordering.
SIMPLEX SUPPLY HOUSE Pontiaz Bldg. CHICAGO
SEND FOR COMPLETE CATALOGUE—WE SAVE YOU MONEY

**Use Rippley's No. 200 Hot Water Heater**

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Mail orders direct. Write for circulars of heaters and steamers.
Ripley Mfg. & Steel Boat Co.
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**Get More Eggs**

Supplies a two-fold demand—grinds the feed and gives lime for the shell. Hardest grit with sharpest edges; 99% pure. Feed Marble Grit and get more eggs. Free booklet tells why. Order direct.

The Marble Cliff Quarries Co.
102 Hartman Bldg., Columbus, Ohio

**7.85 LOWEST PRICE-YET FOR BIG 155 EGG INCUBATOR**

Prize winning batches—Sure results—Healthy chicks—Best Construction—California Redwood—Copper Hot Water Heater—Safety Lamp—Foster—Thermometer—Self-Regulating, etc. Frt. paid E. of Rockies. With Brooder \$9.85. Hundreds of Dead Air Cells. Big new offer this year—write.
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**POULTRY SECRETS**

Valuable 130-page Data-Book
Facts on lowering death-rate, getting 100 per cent hatches, highest prices, etc.

Illustrates improved incubators. Write today.
MODEL INCUBATOR CO., 2 Henry St., Buffalo, N. Y.
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**RAISE BELGIAN HARES FOR US.**

Big profits. We supply stock reasonable and show you how to sell them at \$2.00 to \$5.00 each; also Cavies, Mink, Skunk, Fox, Squirrels, Pheasants, Frogs, etc. Instruction books and Sample copy of our Pet Stock Magazine for Dime. None Free. WANTED Representatives. Address

THE BELGIAN HARE, Box 16, Holmes Park, Mo.

Make Money With Poultry

Our 48 Complete Lessons pave the way to success in Poultry Raising, the Quisberry Way. Special low price now. Our Free Book, "Dollars and Sense in the Poultry Business," tells how. American School of Poultry Husbandry, Box 51, Mountain Grove, Mo.

Home and the Table

Good Things for Everybody

Helen J. Woods
Editor

Let me go where'er I will
I hear a sky-born music still:
It sounds from all things old,
It sounds from all things young,
From all that's fair, from all that's foul,
Peals out a cheerful song.
It is not only in the rose,
It is not only in the bird,
Not only where the rainbow glows,
Nor in the song of woman heard,
But in the darkest, meanest things
There always, always something sings.
'Tis not in the high stars alone,
Nor in the cups of budding flowers,
Nor in the redbreast's mellow tone,
Nor in the bow that smiles in showers,
But in the mud and scum of things
There always, always something sings.
—Emerson.

"WE HAVE A PLANT," writes a friend, who lives in the cramped, unsightly part of a great city, "that is filling our days with loveliness. It was given to me three years ago when only a single three-inch stock, with one modest pink blossom at the top. You will appreciate the pleasure it has given us when I tell you that it has blossomed continuously every day but two since that time. At times there have been as high as thirty blossoms on it at one time and in summer when we get just a little of the western sunlight in our windows, the pale pink of the bloom deepens to a wonderful rose tint. The plant is now more than a foot high and has grown stocky with branches and new shoots. It was the first plant we have had in this house since I came here to live and many of the other families have enjoyed it as much as have we. I have taken off eleven slips and started each of them in a little paper pot and when one tiny pink blossom would burst on top, I have given them one by one to different neighbors in the house. They have all grown

and some are almost as wonderfully developed as mine. The name of the plant is "Patience" and now we call this the "Patience House" and have this plant as a constant reminder of the wonder of the world and the beauty thereof. It was Grandma's idea naming our house for the plant, and wasn't it a happy one? I like the name much better than I do many of the names I see on modern apartment houses up town, when I carry home our needlework, and I often think of it as I come back down our closed in street and see the number of pink blossoms nodding from windows in different parts of the house. I'm sure we have all reflected a little of its glory besides cultivating in some measure its patience, persistence and worth. We all love flowers here. One day Beaby Jean found a fringed gentian in full bloom at the corner of our block, close by the dump and tho we cannot imagine how it came there, we have all watched it grow and blossom and light up our corner of the earth."

Each year a great many birds migrate to our vicinity, some of them stopping all summer and well into the winter, and others just for a week or two at stated seasons. The bird lover must ever be on the alert when a strange call or one not heard for some time reaches the ear. This season we have welcomed several flocks and pairs of unusual birds in this vicinity. It is naturally an ideal place for nesting, being partly surrounded by woodland thickets, and a fine supply of water constantly on hand for bird baths. All kinds of berries and seeds, dearly loved by birds, grow in plenty, not to

mention the overwhelming supply of caterpillars, moths, bugs and worms which would soon devour our vegetation but for the practical assistance given by the birds in annihilating these nuisances.

Early this season we started in to keep count of the varieties of birds found nesting here, and of the migratory flocks passing thru but good enough to stop over for a few days and brighten up the landscape for us by the beauty of their plumage or the joy of their songs. Among the number keeping tabs we lost count, but did not any the less enjoy the association with and interest in the birds. Early one morning a series of wonderful notes issued from the limbs of an old apple tree just below the house. At first we thought it to be an unusually fine voiced cat bird, but the variety of calls and the constant movement from limb to limb and tree to tree suggested the well known habits of the mocking bird. Being familiar with the bird in its native southern haunts, I was convinced that we had a real live mocking bird in our orchard, tho I had never before seen or heard one in this part of New England. I hurried out of bed and down the dew-wet grass, barefoot, and by the aid of a field glass watched him as he hopped from limb to limb, thrilling out his wonderful notes meanwhile. There was then no mistaking Mr. Mockingbird. It was he, in all his glory. That evening his mate came with him and sang long after dark, in the moonlight. For more than a week they kept up an almost continual chatter and song, in and about our orchard, meadow and along the shore of the pond. We thought at first they were going to nest in a thicket along the outlet of the pond, but in the course of a week or so we no longer heard their cheerful notes and contented ourselves with the wonderful variety and sweetness of other bird notes issuing from the throats of birds that come early and stay late.

Rudy's Perfection Wh. Wyandottes



My strain is noted for its egg production and exhibition qualities. My customers all over the country laud my square deal business methods. I guarantee to give you extra good value for every dollar you pay me and if you are in the market for line bred birds I will be glad to tell you just what I have for sale. If you contemplate showing this season I can furnish you the quality that will win.

GEO. H. RUDY

Route 15 MATTOON, ILL.

URBAN FARMS, Pine Ridge, Buffalo, New York

White Rocks, Black Langshans, Anconas, Black-Tailed White Japanese Bantams, Mille Fleurs, Silkies, White Leghorns and White Wyandottes. Mating list ready.



**Old Dutch
Cleanser**
Chases Dirt

who is not even appointed a "filling" member of an unimportant committee, forms the staunchest stuff of which human society is composed.

The innocent bystander is watching society, whether in an organization, a community, a state or a nation. He is getting the perspective which an active participant leader can never get and by which a successful leader must eventually be led. Woe to the leader who cannot calm his oratory to the point where the murmurings of the people and the thoughts of the bystander may be read. His opportunity for progress-making has been wasted and his end draweth near.

* * *

PRESERVED CITRON.

By H. R.

Pare the citron and cut into small oblong pieces. Make a syrup, using three-quarters of a pound of sugar to one pound of fruit. Add the citron to this and set on the back of the stove and allow to cook slowly until clear. Add the juice of a lemon or a little pineapple juice for flavoring. In making jelly, citron is invaluable to add to any fruit juice which will not jell easily.

* * *

PINEAPPLE HONEY.

By Mrs. W. R.

One pineapple pared and eyes removed and grated. Boil one quart of water and two pounds of sugar and then add the grated pineapple and boil until like jelly.

* * *

PEAR HONEY.

By Mrs. E. S.

Pare and run thru a food chopper or grate two pounds of cooking pears and one orange. Add one and one-half pounds of sugar and cook for twenty minutes or until about the consistency of marmalade.

* * *

PEAR SYRUP.

By Mrs. E. T.

Use good cooking pears. Wash them clean but do not pare. Cut them into small pieces and boil until soft and strain thru a jelly bag. To each pint of juice add three-fourths of a pound of sugar. Boil until the thickness of table syrup and store in wide mouthed bottles, corking tight when cold. This makes an excellent syrup for use with hot cakes or waffles.

Shoemaker's Poultry Book and Almanac for 1916.



Do it right
NOW!

The Globe

The book has about 200 pp. with many colored plates of fowls true to life. It tells all about chickens, their prices, their care, diseases and remedies.

C. C. SHOEMAKER, Box 605, FREEPORT, ILL.

All about incubators, their prices and operation. All about poultry houses and how to build them. It's an encyclopedia of chickendom. You need it. Only 15 cents. Your money back if not satisfied.

HAPPENINGS of INTEREST

in the POULTRY WORLD



W. F. Fry, who has been connected with *Reliable Poultry Journal* for the past few years has severed his connections with that publication and recently formed a partnership with Fred Rau, of Indianapolis, Ind. In a letter recently received from Mr. Fry, we are informed that they have purchased from Ben H. Scranton, Rising Sun, Ind., his entire flock of S. C. Reds, the good will of the business, all records, etc. This is one of the most important transactions that has taken place in the poultry world this season, as Mr. Scranton has long been looked upon as one of the leading S. C. Red breeders and a fixture in the throbred poultry business. Mr. Rau is by no means a newcomer in the fancy, as he has been breeding poultry for the past twenty years. We predict great success for this firm.

* * *

One of the largest, if not the largest, contracts ever made for day-old chicks was recently made by the Watson Manufacturing Company of Lancaster, Pa. The figures reach stupendous heights. The contract covers a period of two years and calls for the delivery of 3,000,000 day-old chicks at specified and regular intervals to the various stores of one of the largest chain system stores company in the United States. To fill this contract it will be necessary for the Watson Manufacturing Company to erect an entirely new plant, consisting of a series of buildings, the main building of which will be 300 by 80 feet in dimensions and two stories high.

* * *

At the August meeting of the Association of Instructors and Investigators in Poultry Husbandry held at Columbus, Ohio, Harry M. Lamon, of the United States Department of Agriculture, was elected to the board of directors. An invitation has been extended to this organization to hold its next annual meeting at Washington, D. C., to review the work that "Uncle Sam" is doing in Poultry Investigations and to visit at the Government Experimental Farm in Beltsville, Maryland.

* * *

The 1733 Ranch, Kearney, Neb., recently purchased the poultry business of the Kellerstrass Farm, including all poultry, ribbons, records, etc., in fact everything pertaining to the business. Thus endeth the career of one of the most advertised and best known poultry farms this country ever had.

* * *

H. W. Sanborn, Attleboro, Mass., after nine years of effort in producing S. C. Rhode Island Reds, has sold his entire stock and good will to Frank E. Turner, of Attleboro, Mass.

Do you ever have an idea that savors of originality? Your future success calls for some measure of original thought. Form the habit today, of searching your brain for useful ideas. The ideas are there, but it requires a little mental exertion to reveal them and put them into working.

DU PONT

RED CROSS FARM POWDER



The Original and Largest Selling Farm Explosive

Why use expensive high power dynamites when this slower, safer farm powder will save you from \$3 to \$5 per hundred pounds and in most farm uses do better work?

BIG BOOK FREE

As pioneers and leaders in developing farming with explosives our booklet gives the latest, most reliable and best illustrated instructions. Write for **HAND BOOK OF EXPLOSIVES No. 527 F**

DEALERS WANTED

We want live dealers in towns still open. Get the orders resulting from our advertising. You need not carry nor handle stock. State jobber's name or bank reference when writing.

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Established 1802

World's largest makers of farm explosives
Wilmington, Delaware

White Leghorn Cockerels

The best of the season's hatch at \$1.50 each. Pure white, long bodies, low tails, small combs. Bred from my heavy layers. High egg record yearling hens \$1.00.

Morse's White Leghorn Farm
Belding, Michigan

BUFF and BLUE ORPINGTONS

Madison Square Garden winners. A grand lot of young stock for sale. Let me price you birds for fall and winter shows.

I guarantee satisfaction

HENRIETTA E. HOOKER South Hadley, Mass.

Buckeyes

Winners of the Blue. Write for prices on high class exhibition and breeding stock. Satisfaction guaranteed.

DEEM'S BUCKEYEE YARDS EATON, OHIO



ATHERTON'S FAMOUS SILKIES

The REAL Birds

EGGS \$6.00 per setting; two settings, \$10.00.

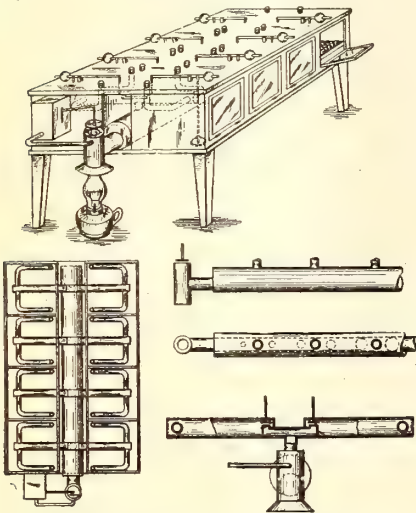
Single Birds, \$5.00 to \$25.00

W. B. ATHERTON
Randolph - Massachusetts

Recent Inventions for Poultrymen

By Lester L. Sargent, Patent Attorney, Washington, D.C.

A MULTIPLE compartment incubator has recently been patented by Wilhelm Schwalge, Elmhurst, Illinois. Individual heating pipes branch out into each compartment from a main heating

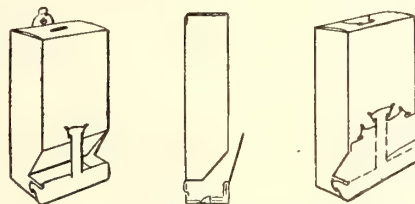
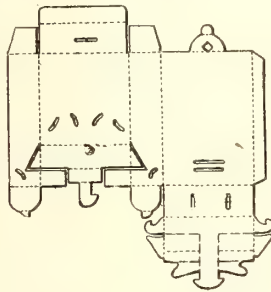


Incubator, patented by W. Schwalge, Elmhurst, Ill. Patent No. 1,187,934.

pipe extending lengthwise of the incubator between the compartments. An air admission controlling device is provided in each individual conduit, making independent regulation of the compartments possible. The conduits leading to the compartments farthest from the heater are relatively larger than the conduits to the nearer compartments,

the sizes of the passageways being proportioned to effect equal distribution of the heated air. Patent No. 1,187,934.

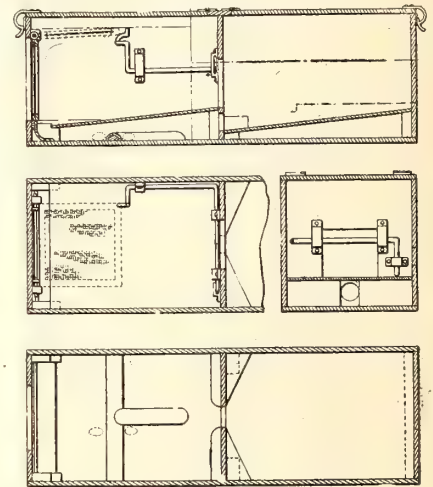
A combination feed-hopper and poultry-food carton has been devised by Walter A. Becker, North Chattanooga, Tenn. The carton is stamped from a single blank and folded to form a poultry-food carton. By tearing away two flaps along perforated lines, the carton is readily converted by the user into a poultry feed hopper. A half interest in the patent is owned by S. Russell Dow, Chattanooga, Tenn. Patent No. 1,189,779.



Combination feed hopper and poultry food carton, patented July 4, 1916, by W. A. Becker, North Chattanooga, Tenn. Patent No. 1,189,779.

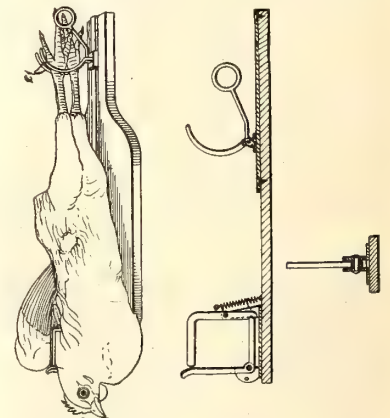
A trap nest that is also designed to break hens of the egg eating habit has been devised by Albert K. Bodenhorn, Punxsutawney, Pennsylvania. The nest is subdivided into two compartments, the inner compartment—to which it has been found the hen will invariably proceed—is the laying compartment. On passing thru the doorway between the two compartments the back of the hen will brush against a latch that will release the trap door of the outer compartment. The floor of the inner compartment is inclined slightly so that the

egg will roll to one end and thence thru an opening into a space beneath the outer compartment where the hen cannot get at the egg. Patent No. 1,190,093.



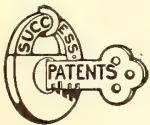
Trap nest, patented July 4, 1916, by A. K. Bodenhorn, Punxsutawney, Pa. Patent No. 1,190,093.

The new stretcher for caponizing purposes shown in the accompanying illustration is the recent invention of Sardis E. Mohler, Fremont, Ohio. The device has pivotally mounted levers, which may be locked in the desired adjusted position, conveniently. Patent No. 1,189,854



Stretcher, patented July 4, 1916, by S. E. Mohler, Fremont, Ohio. Patent No. 1,189,854.

Patent Your Ideas



Inventions bring fortunes when protected by good patents.

New ideas in great demand. I will get a valuable patent for you and help you make money from it. Ask about my free advice.

LESTER L. SARGENT

Cor. 9th and G Sts. Washington, D. C.

Kellerstrass Strain "Crystal" White Orpingtons

Champion Buff Orpingtons
Quality Rose and S. C. Reds
White Wyandottes
Barred and White Rocks
White Leghorns
Waterfowl and Turkeys

Winners at World's Fairs,
Chicago, New York, etc.

As announced last month, we have purchased the entire flock and business of the Kellerstrass Farm, also all the wonderful World's Fair and Chicago winning Buff Orpingtons and Rhode Island Reds of L. E. Porter and Dr. C. R. Watson, respectively, and are now prepared to furnish winning show birds and breeders for any show, also high quality utility breeders by the dozen or hundred. We positively guarantee to please every customer, or send money back at once, and no rag chewing.

Send for prices on what you want and state variety. Catalog free.

THE 1733 RANCH

Russell F. Palmer, Mgr.

R. 6, Box 2, KEARNEY, NEB.

INTERNATIONAL BABY CHICK ASSOCIATION.

An Organization to Foster, Promote, Improve and Protect the Baby Chick Industry and All Allied Branches of Poultry Industry.

By PRINCE T. WOODS, M. D.

WE HAVE attended a good many meetings of poultrymen and of professional organizations, but for sustained interest and enthusiasm, for unity in purpose, for co-operative helpfulness, for mutual betterment, where the good of all was the prime consideration and selfish personal interests did not intrude, we do not recall ever before meeting with a group of men and women engaged in the same line, or allied callings, where such harmony and unity prevailed as did at the meetings in "Parlor J" at the Hollenden Hotel, Cleveland, Ohio, August 7 to 11, 1916.

"Parlor J" was the Baby Chick Headquarters during the Convention of the American Poultry Association and here was developed a new practical poultry organization, the International Baby Chick Association, which its members hope will prove one of the most useful, helpful and constructive co-operative associations that has developed in the interests of poultry husbandry. The egg which hatched this sturdy fledgling was laid at Atlantic City in 1913, hatched and brooded at the big poultry shows thru the winters of 1914, 1915, 1916, until at Cleveland in August, 1916, we have a hardy, fledgling that gives promise of speedily maturing adult plumage with very desirable quality and characteristics. Several millions of dollars are represented in equipment alone in the baby chick industry and among the thirty representatives of the baby chick industry who were present at the initial meetings for organization, a very considerable amount of capital invested in this important branch of poultry husbandry was represented.

The objects of the International Baby Chick Association are "to foster, promote, improve and protect the baby chick industry and all allied branches of

poultry husbandry." This gives a broad field for activity and the association intends to begin at once an active, constructive and helpful educational campaign. While a part of the work will look to a betterment of conditions in the operation and business of the hatcheries themselves, the work will not stop there. It is proposed to co-operate with the breeders in order to secure better eggs for hatching and better quality in the eggs. Transportation companies will be co-operated with in an effort to secure better handling of baby chick shipments and a campaign instituted for the instruction of express company employees in the proper care of shipments of chicks. An effort will be made to educate the ultimate customers, the buyers of baby chicks; not only to demonstrate to such buyers what they may reasonably expect in quality for a stated price, but also how to care for baby chick shipments on arrival and how to grow and develop the chicks to satisfactory maturity. It is a big field of endeavor and a big work, but the workers are many and there will be instructors a plenty who will be glad to co-operate. The I. B. C. A. antagonizes no one, but it stands ready to co-operate with everyone for the greatest good of the whole poultry industry.

Any person or persons, firm or corporation, who is or are interested in the objects of the association, may become members. Memberships are of two kinds: Active and Associate.

Active members consist of persons directly or indirectly interested in the breeding, hatching, shipping and rearing of baby chicks, whose application for membership shall be submitted in writing, endorsed by two members in good standing, and who have been passed upon by the membership committee.

Associate members consist of persons engaged in educational work in poultry husbandry who are elected by the Board of Directors at a regular meeting. Such members are welcomed for the purpose of promoting educational work in all branches of poultry culture and it is hoped to include all prominent representatives of National and State or Provincial Poultry Experimental Depart-

ments in the United States and Canada and such other countries as may desire to become identified with the association. Associate members are exempt from payment of initiation fees or dues, but are expected to co-operate with the association in educational work. Already Harry M. Lamon, of the U. S. Department of Agriculture, Prof. James E. Rice of Cornell University Experiment Station and Prof. C. T. Patterson, of the Missouri State Poultry Experiment Station, have applied for associate membership and been duly elected.

The charter of the association will remain open until October 9th, 1916, to enable those who desire to become identified with this association to enter as charter members. For active members the initiation fee is \$10, which includes dues for the first year or balance thereof, and the annual dues thereafter are \$5.00.

The government of the association is by a board of nine directors. At the organization meeting the following directors were elected: H. H. Knapp, Tyro, Ohio; Dr. Prince T. Woods, Silver Lake, Mass., and H. D. White, Saugatuck, Mich., for three years; C. J. Fisk, New York City; George Cugley, Springfield, Ohio, and U. R. Fishel, Hope, Ind., for two years; W. J. Curtiss, Ransomville, N. Y.; Fred H. Thayer, Baltimore, Maryland, and Mrs. W. H. Hopple, Tiffin, Ohio, for one year. At annual meetings hereafter three directors will be elected to serve for three years.

While a majority of the organizers of the International Baby Chick Association are members of the American Poultry Association, such membership is not obligatory. The I. B. C. A. is an entirely independent organization and not affiliated with the American Poultry Association in any way, altho, of course, thru its members belonging to both associations it can be well represented at American Poultry Association conventions at any time when it proves desirable. It has been suggested that the American Poultry Association may perhaps amend its constitution so that organizations like the International Baby Chick Association may be admitted to the American Poultry Association with

"High Scoring," —Big Layers"

E. C. Branch, Lee's Summit, Mo.—
"Can recommend your goods from start to finish. Have used your incubators for years. It was a Cyphers Incubator that Missouri Belle (score 94½-egg record 237), Anna Belle (93½-egg record 201), Minnie Belle (93½-egg record 211), and Verda Belle (93½-egg record 223) were hatched, as well as a number of other hens with egg records of 200 and over. They were raised on Cyphers Foods from start to finish. We have finally discarded all makes of incubators except Cyphers."



Why Not Get Into The Big Money Making Class?

It's Easy With Cyphers Helps

START now by feeding Cyphers Laying Mash. Boost the egg yield and keep the hens laying right through the fall. The biggest profits of the year are made at this season. Cyphers Growing Mash and Developing Food will hurry up the young pullets and round out the early show birds.

Later on you will want Incubators, Brooders, Remedies, Poultry Supplies—the best always, of course. Get acquainted with us now, through Cyphers Foods, so that you will know just what to get and where to get it when the need comes. We supply full equipment for poultry raisers. 21 years at it. **Write for Our Free Books**, "Poultry Foods and Feeding" and "The Profits in Poultry Keeping," packed with practical money-making suggestions for poultrymen. **Write for these books today**, and ask for current low prices on Cyphers Poultry Food.

Cyphers Incubator Co. Dept. 30, Home Buffalo, N. Y.

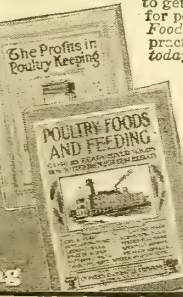
New York; Chicago; Boston; Kansas City, Mo.; Oakland, Cal.
CYPHERS LAYING MASH—A balanced ration of sound grains, blood meal and alfalfa. Ready mixed for feeding.

LAYING MASH
(SEALED BAGS)



100 LBS.

PREPARED BY
CYPHERS INCUBATOR CO.
BUFFALO, N. Y.
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Use
Cyphers Co's
Profit
Producing

**POULTRY FOODS
AND SUPPLIES**

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American Poultry Journal Cut Catalog

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AMERICAN POULTRY JOURNAL

Dept. C

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Barred Plymouth Rocks

BUY your eggs at reduced prices from a firm that has been in the business for 25 years. No matter what you pay, no one can furnish you better quality than we can. Our quality is wonderful, yet our prices are the lowest of any of the big breeders.

For July and August Only

Eggs \$1.00 per 15 \$2.75 per 50
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9 Firsts, 8 Seconds, 7 Thirds, 2 fourths and 3 fifths premiums at the big Ky. State Fair and great Armory Show, Louisville, prove our unapproachable quality. Exceptionally low prices on yearling breeders. Send us your order today for what eggs you need.
POPE & POPE, Box A, Louisville, Kentucky

keep your powder dry!

In other words, be prepared for the Fall rush of business.

Get your share!

Don't let the buyers forget you during the dull Summer months. Don't think because you have nothing to sell now, that you can afford to get out of the "limelight." The advertisers that are carrying good sized space now are the ones who will, in the Fall, reap the benefit of the prestige thus established.

The ranks of the buyers are constantly changing—the new are coming, the old are going.

In time of Peace prepare for War.

representation on the Executive Board in the same manner now provided for State and Provincial associations. That the I. B. C. A. not being affiliated with the American Poultry Association proves no hindrance to the former association co-operating with the American Poultry Association was demonstrated when President Knapp of the I. B. C. A. introduced the representatives of the Adams and American Express Companies to the American Poultry Association meeting and ably conducted the discussion designed for the illumination and education of these representatives of transportation companies in regard to the views of poultrymen and hatcheries on the proper handling of egg, chick and poultry shipments.

The officers elected by the board of directors to serve the International Baby Chick Association for the ensuing year are: President, H. H. Knapp; 1st Vice-Pres., C. J. Fisk; 2nd Vice-Pres., Dr. P. T. Woods; Secretary, H. D. White, Saugatuck, Mich.; Treasurer, C. J. Fisk.

During the meetings of August 7 to 11, which were held almost continuously from 8 A. M. until late in the evening of each day, plans for future work were discussed and able addresses were made by several prominent poultrymen, instructors in poultry husbandry and an expert in agricultural advertising.

A special meeting of the International Baby Chick Association will be held during the Palace Poultry Show, New York City, early in December.

POULTRY FANCIERS' CLUB.

Founded at Cleveland, O., Aug. 9, '16.

AT THE annual meeting of the American Poultry Association held at Cleveland, Ohio, August 8 to 10, many old members and veteran breeders and fanciers were present, who were pleased to note the harmonious feeling prevailing among the delegates, as well as the disposition of the latter toward existing conditions in the American fancy of today. The result was that these old fanciers assembled in one of the committee rooms of The Hollenden Hotel, on August 9th, and founded the Poultry Fanciers Club with the avowed purpose of advancing the interests of the poultry fancy and reviving the true fancier's spirit.

The charter members of this new social, fraternal and progressive poultry club are: D. Lincoln Orr, E. B. Thompson, Chas. McClave, J. H. Drevenstedt, Harry M. Lamon, Robert Seaman, D. E. Hale, C. F. Rankin, H. P. Schwab, J. H. Wolsieffer, C. D. Cleveland, and S. T. Campbell.

The officers elected for the first year are: President, D. Lincoln Orr, Orr's Mills, N. Y.; Vice-President, Chas. McClave, New London, Ohio; Secretary-Treasurer, J. H. Drevenstedt, Buffalo, N. Y.

Membership will be limited to members of the American Poultry Association who have been identified with the standard bred poultry industry for twenty-five years or more.

The annual meetings of the Poultry Fanciers' Club will be held during the week of one of the leading poultry shows as designated or voted upon by the executive committee or its members, at which time and place the dinner and banquet will be the yearly re-union of its members as well as the social and fraternal function.

Associations and Shows

Secretaries are Requested to Send in News Items of Interest About Their Shows for This Department

ST. LOUIS, MO.

At a meeting of the St. Louis Poultry Show Association it was decided to hold the next show in the Coliseum Thanksgiving week, November 24 to 30 inclusive. The association has been reorganized and a state charter will be applied for. Chas. Key Culom was elected secretary-treasurer of the organization and the following officers were re-elected for one year: Henry Steinmesch, president; J. A. Rau, vice-president, and a Board of Directors composed of the foregoing and Judge W. W. Henderson, William Westhus, E. W. Mahood, T. L. Horn, C. L. Schaper, George J. Deuber and Wm. C. Smith.

The newly-organized St. Louis Pet Stock Association and the St. Louis Pigeon Fanciers' Association will combine with the poultrymen in the next Coliseum show. Robert Joos of Chicago will place the ribbons in the pigeon department and R. C. Knill and Charles S. Gibson, president and secretary, respectively, of the National Pet Stock Association, will judge the pet stock exhibits. A complete list of poultry judges will be announced in the near future.

It is announced several specialty clubs will make St. Louis the official show this year, and Secretary Culom is in touch with a number of state and national organizations in an effort to land the annual meetings for the Mound City.

Monthly meetings of the St. Louis Poultry Show Association are being held in the private dining room of the Marquette Hotel.

HANOVER, PA., FAIR.

September 12-15, 1916.

This is the last call for entries for the coming poultry exhibition at Hanover, Pa., week of September 12th.

Manager C. N. Myers and Asst. Jas. T. Huston anticipate a good big entry of quality birds to be entered long before the entries close September 5th. In fact, with increased cooping facilities, the additional coops will hardly be sufficient. The management, however, will return all entries as soon as the coops are taken up. You had therefore better make your entry today. Be one of the live ones who desire to show at a real poultry exhibition, an exhibition which has been built right, and where national reputations have and are being made.

Judges Geo. L. Young, Chas. H. Wells, J. Harry Wolsieffer, Chas. Nixon and Dr. A. T. Beckett will be on the ground bright and early Tuesday morning September 12th, and these gentlemen come knowing that strenuous work awaits them in all the classes.

Remember one or two birds will have the same attention from the attendants, as though your entry consisted of a dozen. We want your entry, we want your presence; once you come to Hanover you will be a regular visitor.

Entries close September 5th.

NATIONAL COLUMBIAN WYANDOTTE CLUB MEDALS FOR 1916-17.

The National Columbian Wyandotte Club will offer at all forthcoming poultry shows in the United States and Canada that will give notice in their premium list, and will mail a copy of same to the secretary of the club. Notice to be printed in premium list.

The National Columbian Wyandotte Club will award gold, silver and bronze medals, and if two or more members compete at this show first prize winners in all classes are entitled to points toward the championship, proportionate to the strength of the competition, and are also offered a set of five special club ribbons as follows: One for best cock, for best hen, for best cockerel, for best pullet and for best pen. An invitation is extended to all to join this club. A payment of \$2.00 entitles you to full membership to November 1st, 1917. Be sure you are a member in good standing before the entries close for this show.

Address for catalog and membership card, also detailed plan of awarding championship medals.

NATIONAL COLUMBIAN WYANDOTTE CLUB, D. G. Keyler, Sec.-Treas.

Trenton Jct., N. J.

The Eastern N. M. Poultry Association at Portales and Clovis will entertain the American Poultry Association state meet this year. They are preparing an especially

attractive list of special prizes and the breeders that are looking for more business should make it a point to make this show. The El Paso and Amarillo, Texas, shows are the week just previous to this show, so come and make a good showing with them and then on to Portales and Clovis. Premium list September 10th. Address the secretary, Jno. L. Reid, Portales, N. M.

AMERICAN CAMPINE CLUB.

The recent election of the American Campine Club resulted with the entire present staff of officers being retained for the year 1917. They are as follows: President, M. R. Jacobus, Ridgefield, N. J.; first vice-president, N. E. Luce, Los Angeles, Cal.; second vice-president, J. H. Prudhomme, Thurmont, Md.; secretary-treasurer, Mrs. C. H. Owings, Dumont, N. J. The executive board will consist of the president and secretary, together with C. A. Phipps, Wayland, Mass.; S. V. R. Martling, Ridgefield, N. J., and Mrs. A. A. Carver, Seville, Ohio. The sixth annual business meeting and club show will be held at Grand Central Palace, N. Y., December 5-3, 1916.

The National Columbian Wyandotte Club has just issued its fifth quarterly and is one that will prove very interesting and helpful to all Columbian Wyandotte breeders. This booklet contains 8 pages, 9x12, on the best paper to show up the half-tone illustration. It has many valuable articles by prominent fanciers, and interesting news items pertaining to our club. Write for this literature and list of breeders in your locality. Address D. G. Keyler, Sec.-Treas., Trenton Junction, N. J.

WHITE WYANDOTTE CLUB

H. J. Riley, the well known White Wyandotte breeder of Bryan, Ohio, has announced his candidacy for Sec.-Treas. of the National White Wyandotte Club. He is at present a member of Executive Committee.

American Poultry Journal has known Mr. Riley a number of years. He is what we call a man among men, the type that reflect credit on any organization and we do not hesitate to indorse him for this honored position.

THE AMERICAN BUCKEYE CLUB

Offers during the show season of 1916-17, a silver cup for best pen, provided there are two or more exhibitors in the class. Also its Club ribbons for best colored male, best shaped male, best colored female, and best shaped female. Competition open only to Club members. Specials will be sent direct to winners by Club Secretary on note from show Secretary, verifying the winnings. Address, H. W. Deem, Natl. Secy., Eaton, Ohio.

The National Golden Wyandotte Club have a new catalog published and if interested in this breed, write for a copy. J. S. Pennington, Secy., Plainfield, Ill.

The twenty-first annual exhibition of the Western Connecticut Poultry Association will be held at Danbury, Conn., November 30 to December 2, 1916. Silver cups to the value of over \$300 will be offered as special premiums in addition to the regular cash premiums. Geo. W. Weed and E. W. Otte will place the awards. For premium list and full particulars address the secretary, H. G. Ward, 57 Main St., Danbury, Conn.

The White Wyandotte

appeals stronger to the fancier as it has the most beautiful body formation and for meat and egg production they cannot be excelled, and equaled by few, and this is very prominent in the World's Best Strain. We now have, ready for the show room, cockerels and pullets, many matured and in the pink of condition; cocks and hens in new feather, ready to win the coveted honors; if you prefer we will condition them. Past has caused this strain of exhibition and utility birds to be known by their trade name, **The World's Best.**



SEPTEMBER BARGAINS

Owing to the fact that our matings have produced such grand quality and the success we have had in bringing the largest number of fowls to maturity we are having a special sale on birds the first 15 days of Sept. You will receive the regular literature with prices discounted for the first 15 days.

Send for our special sale list and avail yourself of the opportunity to secure birds at bargain prices.

J. C. FISHEL & SON

Box J

HOPE, INDIANA

LAYERS or SHOW BIRDS

We can supply you birds that cannot be excelled for type, color, or as egg producers. Our birds have free range on a 300 acre orchard, meaning sturdy, vigorous fowls; 265 trap-nests in operation, so we know what these birds will do. Wh. Wyandottes and S. C. Wh. Leghorns, Baby Chicks and Eggs for hatching. Strains established 1906.

LAKEWOOD FARM, HOLLAND, MICHIGAN

GOLDEN PENCILED HAMBURGS

The Fancier's Fowl. Won the Principal, Regular and Special Prizes at Madison Square, Boston, Palace. A few birds for sale. No eggs.

JOHN A. GAMEWELL

Box 2

LITTLE SILVER, N. J.

Indianapolis Breeders of Poultry and Pet Stock Association

Will hold their second annual show December 4-9, 1916 at Indianapolis. Competition open to the world; premium list ready November 1, 1916.

G. C. OTT, Secretary

1106 Linden St., Indianapolis

TERRE HAUTE, IND., DEC. 6, 7, 8, 9 and 10, 1916

Entries close December 2, 1916. Comparison show. Cash premiums. Premium list ready November 10, 1916. A feature will be a big sales room in connection. Good stock sells quickly at this show. We employ such judges as Tucker, Hale, Hewes, etc. For any information write HARRY FORBES, Sec'y., 2601 N. 11th St.

Western Illinois Fancier's Ass'n

Annual Show December 6-10, 1916. HARRY W. ATKINS, Judge. Send for premium list to E. A. STOUVENEL, Secretary, Savanna, Illinois

It would be a pitiful waste

if you had a winner and your lack of self-confidence or your too great belief in the "big fellows" infallibility prevented you from exhibiting at

The Palace Show

You owe it to yourself not to take that risk. We emphasize the fact that we have made many a man in the trade and we urge you to see what we can do for you. If you win a prize—well, we don't have to tell you what that means, but we do wish to point out that in any case we can be the means of introducing you to new men and new methods.

New York City

gives precedence to a show that already has prestige over every other show in the country. You reap the benefit of this double advantage. From

DECEMBER 5-9

you can make every minute worth while, both from the business and the scientific point of view. The chance is too good to miss. Act quickly.

Entries Close November 20th

Come now, it will be a whole year before you have another opportunity.

EMPIRE POULTRY ASSOCIATION

Robert Seaman, Pres. MINEOLA, N. Y. L. D. Howell, Sec'y

Champion Gladstone Strain

S. C. Rhode Island Reds

Our yards this year show better color, better shape, better vitality. Breeders who have visited us say they never saw better stock. Get your orders in early. Mention American Poultry Journal.

ROCK LEDGE FARM

SOUTHBORO, MASS.

Red and Speckled Sussex

Bred from New York and Chicago club winners. Limited number for fairs. Write for prices on pairs and trios. Mention American Poultry Journal.

H. H. & E. M. COBURN, RED SUSSEX FARM

Electric Stop: Maxwell : : : St. Clair, Michigan

HARNLY'S Quality WHITE ORPINGTONS

Officially awarded Championship male two years in succession and 127 prizes one season.

Eggs : Chicks : Breed-to-lay Breeders : Show Birds : Free catalog.

MRS. J. H. HARNLY - - - 2301 Elisha Avenue - - - ZION CITY, ILL.

Spangled Wyandottes

Get your show winners now.
L. COOK, Originator, Oakville, Ia.

AMERICAN CORNISH CLUB

The above club has added 175 new members since the first of the year, sixty-eight of these were taken in since their 1916 annual was published the latter part of March, which goes to show that someone is getting busy.

The Annual Club Show will be at Boston, Jan. 9-13, 1917, the judges being J. W. Ward, Jr., and W. H. Card. This will be a great meet and we advise all Cornish Breeders who are not club members to join at once. Address John W. Ward, Jr., Secy.-Treas., Pennington, N. J.

AMERICAN BARRED PLYMOUTH ROCK CLUB

C. J. Behn, Secy., of the above club, recently received eighteen new members from Trinidad, B. W. I.

KANKAKEE, ILLS.

The Annual Kankakee Inter-State Fair will be held Sept. 4-8, liberal premiums are offered. For premium list address Len Small, Secy., Kankakee, Ills.

NEW MEXICO FAIR

The 36th Annual New Mexico State Fair will be held at Albuquerque Sept. 25-30, 1916. It will also be the State meet of S. C. Buff Orpingtons and meet of Albuquerque Poultry Assn. Comparison judging by Chas. V. Keeler. For list, write to J. D. Notgrass, Supt., 604 N. 2nd St., Albuquerque, N. M.

MICHIGAN

Grand Haven and Muskegon Associations have united and are now known as Muskegon & East Shore Poultry Fanciers' Assn., H. S. Nobel, Secy., Muskegon Heights, Mich. Annual show held Jan. 23-27, 1916.

IOWA

Te Buena Vista Poultry Assn., recently organized at Storm Lake, Iowa, W. F. Miller is Pres., E. W. Oates, Secy.-Treas.

ALLENTOWN, PA.

The old reliable Allentown Fair Poultry Show, with well known W. Theo. Wittman again handling the reins, will be held Sept. 19-22 inclusive. This fair is too well known to need comment.

MICHIGAN

The 67th Annual State Fair will be held at Detroit, Sept. 4-13. Copy of premium list sent you, by addressing G. W. Dickinson, Secy., 501 Bowles Blvd., Detroit, Mich.

The annual exhibition of New Jersey's Premium Poultry Exhibition will be held at Elizabeth, N. J., November 28 to December 3, 1916. At this show only one entry is required to a class. L. A. Graham, J. C. Punderford, Wm. F. Hobbs and M. L. Chapman, judges. For premium list and full particulars address A. J. Churchill, sec., Elizabeth, N. J.

Don't forget the second annual show of the Proviso Poultry Fanciers Association, which will be held at Forest Park, Ill., December 21-26, 1916. This show will be held in the ball room of the Forest Park Amusement Park, which will give ample space for the cooping of 3,000 birds. For full particulars address the secretary, R. C. Jamieson, 1019 N. 5th Ave., Maywood, Ill.

The Northern Arizona Fair will be held at Prescott, Arizona, October 19-21, 1916. There will be held in connection with the fair a most excellent poultry show and A. H. Currier, of California, has been engaged to place the awards. Judging will be by comparison. For particulars address W. M. Wood, Sec. Poultry Dept., Northern Arizona Fair Association, Prescott, Arizona.

The Indianapolis South-Side Poultry Assn., has been changed to Indianapolis Breeders of Poultry & Pet Stock Assn., G. C. Ott, Secy. Next show, Dec. 4-9.

New officers of the Duluth, Minn., Assn., are D. C. Moore, Pres., S. B. Snyder, Secy., 221 E. 5th St. The 21st annual show will be held Feb. 1-6, 1917.

The American Buff Leghorn Club is now at work on their 1916 year book, which will be sent free to anyone asking for the same. All persons interested write Geo. S. Barnes, Battle Creek, Mich.

According to Secy. Campbell, of the American Poultry Assn., the Northern Illinois Poultry Assn., at Belvidere, Ills., is the oldest in the country.

SHOW DATES

ALABAMA.

Oct. 17-21, 1916. Alexander City; East Alabama Fair Assn., A. P. Fuguy, sec.
Oct. 24-28, 1916. Sylacauga; Salladega County Fair Assn., J. E. Jordan, sec.

ARIZONA.

Oct. 19, 20, 21, 1916. Prescott; The Northern Ariz. Fair Assn., A. H. Currier, judge; W. M. Wood, sec.

CALIFORNIA.

Dec. 5-9, 1916. Modesta; Stanislaus Poultry Assn., W. S. Russell, C. G. Hinds, H. A. Currier, judges; James D. Yates, sec.
Dec. 12-16, 1916. Harper; Orange County Fanciers Assn., C. A. Wilkinson, sec.
Jan. 3-9, 1917. Los Angeles; Poultry Breeders Assn. of Southern California; Purdy, Goodacre, Emerson, Masterson, judges; Walter Ross, sec., 224 W. Colorado st., Glendale, Cal.

CANADA.

Nov. 6-9, 1916. Berlin; The Berlin Poultry Assn., H. B. Strome, sec., 210 Courtland avenue.
Sept. 8-16, 1916. London, Ont.; Western Fair; Wm. McNeil, G. Jarvis, J. E. Bennett, judges; A. M. Hunt, sec.
Jan. 3, 4, 5, 1917. Napanee, Ont.; Napanee Poultry Assn.; Geo. Robertson, judge; G. B. Curran, sec.

COLORADO.

Jan. 1-6, 1917. Denver; Colo. Poultry Fanciers Assn.; S. B. Johnston, H. H. Chase, judges; Geo. M. Littler, sec., 4192 Chase st.
Jan. 8-11, 1916. Brush; Eastern Colorado Poultry Assn.; F. H. Shellabarger, judge; J. L. Cameron, sec.
Jan. 22-27, 1917. Denver; National Western Poultry Show; James Tucker, Geo. Wells, judges; W. C. Schuman, mgr., 400 So. Emerson st.

CONNECTICUT.

Nov. 22-25, 1916. New London; The Southern New England Poultry Assn.; W. M. Anderson, Beebe, Ives, Master, Northrup, Halenbeck, judges; H. W. Schriver, sec., Grotton, Conn.
Nov. 30 to Dec. 1-2, 1916. Danbury; Western Conn. Poultry Assn.; G. W. Weed, F. W. Otte, judges; H. G. Ward, sec., 57 Main street.

GEORGIA.

Oct. 3-7, 1916. Donaldsonville; Southwest Ga. Fair, W. H. Vanlaningham, sec.
Oct. 7-13, 1916. Jesup; Wayne County Fair Assn., Jas. N. Atkinson, sec.
Oct. 9-14, 1916. Dalton; Whitfield County Fair, T. S. McCanry, sec.
Oct. 10-13, 1916. Cartersville; Barstow County Fair Assn.; Loring Brown, judge; W. C. Gains, supt. and sec.
Oct. 17-20, 1916. Rome; North Ga. Fair Assn.; Loring Brown, judge; Jule M. Glover, supt. and sec.
Nov. 6-11, 1916. Macon; Georgia State Fair Assn.; J. H. Drevenstedt, judge; Harry C. Robert, sec., 408 Broadway.
Nov. 13-18, 1916. Augusta; Augusta Poultry Assn.; Drevenstedt, Marshall and Robt. West, judges; H. W. Cameron, sec.

ILLINOIS.

Nov. 27-30 to Dec. 1-2, 1916. Jacksonville; Morgan County Poultry Assn.; Geo. A. Heyl, judge; James C. Weber, sec.
Dec. 4-9, 1916. Milledgeville, Ill.; Milledgeville Poultry Assn.; Elmer Gimlin, judge; C. A. Straka, sec.
Dec. 4-5, 1916. Hoopston; Hoopston Poultry Assn.; D. T. Heimlich, judge; Wm. Johnson, sec., R. F. D. No. 3.
Dec. 4 to 9, 1916. Lanark; Lanark Poultry, Pet Stock and Grain Assn.; F. H. Shellabarger, judge; Mrs. J. A. Shaner, sec.
Dec. 5-10, 1916. Woodstock; McHenry County Poultry Assn.; T. J. Rountree, judge; M. C. Davis, sec.
Dec. 6-10, 1916. Savanna; Western Ill. Fanciers Assn.; Atkin, judge; E. A. Stouvenel, sec., R. R. No. 4.
Dec. 11-16, 1916. Macomb; McDonough County Poultry Assn.; D. E. Hale, judge; Walter R. Purdum, sec.
Dec. 12-16, 1916. Farmington; Farmington Poultry Assn.; E. M. Quay, judge; Jas. H. Fash, sec.
Dec. 18-22, 1916. Pontiac; Livingston County Poultry Assn., C. A. Tuttle, sec.
Dec. 18-23, 1916. Belvidere; Northern Ill. Poultry Assn.; E. G. Roberts, judge; W. G. Lampert, sec., 811 Prairie st.
Dec. 21-26, 1916. Forest Park; Proviso Poultry Fanciers Assn., R. C. Jamieson, sec., 1019 N. 5th ave., Maywood, Ill.
Dec. 26-29, 1916. Batavia; Batavia Poultry Assn.; D. E. Hale, judge; Chas. A. Pierce, sec.
Dec. 27-31, 1916, to Jan. 1, 1917. Capron; Capron Poultry Breeders Assn.; E. G. Roberts, judge; J. C. Waleton, sec.
Dec. 28-31, 1916, to Jan. 1-3, 1917. Springfield; Ill. Poultry Breeders Assn.; Russell, Johnston, Hale, Heyl, Klein, Heimlich, McCord, Leland, judges; A. D. Smith, sec., Quincy, Ill.
Jan. 8-13, 1917. Rockford; Rockford Poultry and Pet Stock Assn.; Earl Hemenway, judge; A. E. Lindsay, sec., 220 Girard st.

Jan. 15-20, 1917. Decatur; Decatur Poultry and Pet Stock Assn.; Chas. McClave, J. J. Klein, judges; H. B. Lowe, sec., R. 9.

INDIANA.

Dec. 4-9, 1916. Indianapolis; Indianapolis Breeders of Poultry and Pet Stock Assn. (formerly the Indianapolis South Side Poultry Assn.), G. C. Ott, sec., 1063 Virginia ave.
Dec. 11-16, 1916. Marion; Northern Ind. Poultry Assn.; S. G. Case, judge; O. D. Weesner, sec., 1210 S. Boots st.
Dec. 19-22, 1916. Mitchell; Mitchell Poultry Assn.; Colip, judge; Chas. D. McIntire, sec.
Jan. 2-7, 1917. Rensselaer; Jasper County Poultry Assn.; F. W. Travis, judge; J. H. Webber, sec.
Jan. 8-12, 1917. Bedford; Lawrence County Poultry Assn.; W. W. Zike, judge; Theo. Heitgen, sec.
Jan. 8-13, 1917. Brazil; Brazil Poultry Club; B. H. McCracken, judge; J. C. Mac Donald, sec.

IOWA.

Nov. 28-30 to Dec. 1, 1916. Kansas City; Nishna Valley Poultry Assn.; Jos. Dagle, Russell Palmer, judges; R. E. Murphy, sec.
Nov. 28-30 to Dec. 1, 1916. Boone; Boone County Poultry Assn.; Holden, judge; F. D. Wheeler, sec., 523 Jefferson st.
Dec. 1-7, 1916. Traer; Traer Poultry Assn.; H. W. Atkins, judge; T. J. McGinnis, sec.
Dec. 1-4, 1916. Ottumwa; Ottumwa Poultry Assn.; D. E. Hale, judge; V. Reinhard, sec., 105 N. Weller st.
Dec. 4-8, 1916. Iowa City; The Iowa City Poultry Assn.; Glen F. Richards, judge; Jake L. Yager, sec., Box 202.
Dec. 5-8, 1916. Centerville; Appanoose County Poultry Assn.; H. Dippel, judge; M. E. Terry, sec.
Dec. 26-29, 1916. Lowden; Lowden Poultry Assn.; F. H. Shellabarger, judge; O. C. Pancratz, sec.
Jan. 1-7, 1917. Marshalltown; Marshalltown Poultry Assn.; W. G. Warnock, judge; C. C. Lowmsberry, sec., 405 E. State st.
Jan. 2-5, 1917. Mt. Vernon; Mt. Vernon Poultry Assn.; F. H. Shellabarger, judge; H. C. Gilliland, sec.
Jan. 4-9, 1917. Dubuque; Iowa State Poultry Assn.; Tucker, Dale, Athens, judges; Walter Hurd, sec., 2222 Grandview ave.

KANSAS.

Nov. 28-30 to Dec. 1, 1916. Kansas City; Kansas City Mid-West Poultry Assn.; C. A. Emry, T. L. Pollock and Shedd, judges; Wm. Hunter, sec., 2648 N. 22nd st.
Nov. 27-30 to Dec. 1-2, 1916. Emporia; Lyon County Poultry Assn.; E. W. Cook, judge; F. J. Horton, sec.
Dec. 4-9, 1916. Fredonia; Wilson County Poultry and Pet Stock Assn.; E. W. Cook, judge; A. K. Sell, sec.
Dec. 18-22, 1916. Pittsburg; The Kansas State Poultry Federation; Quisenberry, Branch and McCluskey, judges; D. J. Mackey, sec., 912 Rausey st.
Jan. 2-5, 1917. Leavenworth; Leavenworth Poultry Assn.; E. C. Branch, judge; Chas. M. Swan, sec., Lansing, Kas.
Jan. 1-5, 1917. Hutchinson; The Arkansas Valley Poultry Assn.; J. J. Atherton, W. C. Tallant, judges; W. B. Powell, sec., 622 13th st. West.
Kiowa County Poultry Assn., Greensburg, Kans. P. H. Landrith, sec.

KENTUCKY.

Aug. 29-31 to Sept. 1-2, 1916. Fulton; Fulton County Fair Assn., R. H. Wade, sec.
Nov. 20-25, 1916. Owensboro; Owensboro Poultry Club; D. T. Heimlich, judge; D. C. Gordon, sec.
Nov. 27-30 to Dec. 1-2, 1916. Henderson; Henderson Poultry Assn., M. M. Alves, sec., 118 1/2 N. Main st.
Jan. 5-9, 1917. Lexington; Ky. Experiment Sta., J. J. Hooper, sec.

LOUISIANA.

Nov. 11-19, 1916. New Orleans; New Orleans Farm and Live Stock Assn.; R. E. Bruce, supt. poultry, 330 Carondelet st.
Dec. 13-16, 1916. Alexandria; Central La. Poultry and Pet Stock Assn.; F. J. Marshall, judge; W. H. McCrackin, sec.

MASSACHUSETTS.

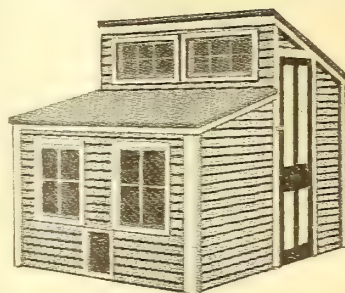
Oct. 3-6, 1916. Brockton; Brockton Agri. Society; head of poultry dept., E. T. Packard; P. G. Flint, sec.
Nov. 29-30 to Dec. 1-2, 1916. Attleboro; Attleboro Poultry Assn.; Atherton, Bailly, Cook, Allen, Duston, Feather, judges; Frank W. Middleton, sec., 24 Leroy st.
Dec. 6-8, 1916. Abington; Abington Poultry Assn.; Pratt, Bailon, Shore, judges; Leroy Grinnell, sec., 91 Chapel st.
Dec. 12-14, 1916. Gloucester; Gloucester Poultry Assn.; Chas. Ballou, F. G. Cook, Burbank and Deacon, judges; Ernest Deacon, sec., Annisquam, Mass.
Dec. 13-15, 1916. Norwood; Norwood Poultry Assn.; Shove, Cook, Smith, judges; E. D. Baker, sec., 88 Nichols st.

MICHIGAN.

Oct. 3-6, 1916. Fowlerville; Fowlerville Agri. Society, Geo. A. Newman, sec.
Nov. 28-30 to Dec. 1-3, 1916. Berrien Springs; Berrien Springs Poultry Assn., L. E. Kephart, sec.

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Dec. 5-8, 1916. Zeeland: Zeeland Poultry and Pet Stock Assn.; W. A. Bonner, judge; Jno. A. Hartgerink, sec.

Dec. 7-12, 1916. Battle Creek: Battle Creek Poultry Assn.; W. M. Wise, judge; John Conroy, sec., 308 Ward bldg.

Dec. 21-25, 1916. Holland: Holland Poultry Assn.; Wm. Wise, judge; Wm. Drinkeloo, sec.

Jan. 1-6, 1917. Kalamazoo: So. West Mich. Poultry Assn.; Johnston of Springfield, Ill., judge; Bert L. Shotts, sec., R. F. D. Augusta.

Jan. 16-19, 1917. Grand Rapids: West Mich. Poultry Assn.; J. H. Drevenstedt, judge; John Bowstrom, sec., 632 Sinclair av.

Jan. 16-20, 1917. Ludington: Mason County Poultry and Pet Stock Assn.; C. A. Blass, judge; O. E. Hawley, sec., R. No. 3.

Jan. 23-27, 1917. Muskegon: Muskegon and East Shore Poultry Assn.; Wm. Wise, judge; H. S. Noble, 15 Barney ave., Muskegon Heights, Mich.

Jan. 24-29, 1917. Bay City: Bay City Poultry Assn.; J. W. Mulnix, judge; R. H. Schafer, sec., 1425 Trumbull ave.

MINNESOTA.

Dec. 12-15, 1916. Two Harbors: Lake County Poultry Assn.; Henry Hess, judge; Fred D. W. Thias, sec.

Feb. 1-6, 1917. Duluth: The Duluth Poultry Assn.; Geo. W. Hackett, judge; S. B. Suydam, sec., 221 E. Fifth st.

Faribault: Cannon Valley Poultry Assn., E. D. Roth, sec.

MISSISSIPPI.

Oct. 16-21, 1916. Meridian: Mississippi Alabama Fair; J. H. Sledd, judge; A. H. George, sec.

Oct. 17-19, 1916. Calhoun City: Calhoun County Fair Assn.; R. D. Spencer, sec.

Oct. 23-28, 1916. Jackson: Mississippi State Fair; J. H. Sledd, judge; W. C. Taylor, sec.

MISSOURI.

Nov. 13-15, 1916. Concordia: Concordia Poultry Assn.; E. C. Branch, judge. Jno. F. Burns, sec.

Nov. 13-18, 1916. Paris: Monroe County Poultry Assn.; T. E. Quisenberry, judge; J. W. Jackson, sec.

Nov. 24-30, 1916. St. Louis: St. Louis Poultry and Pet Stock Assn.; Chas. K. Culom, sec., 4950 Wise ave.

Nov. 27-30, 1916. Sedalia: Sedalia Poultry Assn.; D. T. Heimlich, judge; Fred A. Benz, sec.

Nov. 29-30 to Dec. 1, 1916. Carrollton: Carroll County Poultry Assn.; V. Southard, judge; Mrs. A. J. Ginnaird, sec., R. F. D. 9.

Nov. 28-30 to Dec. 1-2, 1916. Butler: The Bates County Poultry Assn.; Tom Woods, judge; Edson Snyder, sec.

Dec. 5-9, 1916. St. Joseph: Buchanan County Poultry Assn.; Hale, Southard, Thompson, judges; S. R. Casper, sec., 117 S. 8th st.

Dec. 4-7, 1916. Richmond: Ray County Poultry Assn.; E. C. Branch, judge; C. A. Brown, sec., R. F. D. No. 2.

Dec. 5-9, 1916. St. Joseph: Missouri State Poultry Assn.; Hale, Southard, Thompson, Palmer, judges; Fred Crosby, sec., Mountain Grove, Mo.

Dec. 5-9, 1916. Kirksville: Adair County Poultry Assn.; E. C. Branch, judge; Walter Martin, sec.

Dec. 19-21, 1916. Louisiana: Pike County Poultry Assn.; D. T. Heimlich, judge; C. H. Winn, sec.

Dec. 19-23, 1916. Maryville: Northwest Mo. Poultry Assn.; Joseph H. Sayler, sec.

Jan. 8-13, 1917. Kansas City: The Kansas City Poultry Show; V. O. Hobbs, T. E. Quisenberry, T. W. Southard, A. J. Meyer, V. H. Southard, judges; E. L. Noyes, sec., Manhattan bldg.

Harrisonville: Southwest Poultry Assn.; E. C. Branch, judge; N. M. Hall, sec.

MONTANA.

Jan. 15-20, 1917. Kalispell: Northwest Montana Poultry Assn.; C. A. Greenfield and O. Nelson, judges; G. Fred'k Tate, sec., Box 707.

NEBRASKA.

Sept. 21-24, 1916. Kearney: Buffalo County Fair Assn., Mrs. E. H. Morey, sec.

Nov. 27-30 to Dec. 1-2, 1916. Omaha: Greater Omaha Poultry Fancier Assn.; Shellabarger, Shaner, Smiley, Schreff, judges; R. R. Foster, publicity mgr.; W. E. Backr, sec.

Nov. 28-30 to Dec. 1-2, 1916. Hickman: Hickman Poultry and Grain Assn.; A. H. Smith, judge; P. G. Fieselman, sec.

Dec. 4-9, 1916. Beatrice: Beatrice Poultry Assn.; G. E. Schreff, judge; David O. Kasings, sec., R. 2.

Gibson: Gibson Poultry Assn.; Guy E. Schreff, judge; L. Bevis, sec.

NEW HAMPSHIRE.

Dec. 12-15, 1916. Derry: Derry Poultry Assn.; Cutting and Nicholson, judges; E. A. Cross, sec., 27 Birch st.

NEW JERSEY.

Nov. 28-30 to Dec. 1-3, 1916. Elizabeth: Union County Poultry Assn.; L. P. Graham, J. C. Punderford, M. S. Chapman, W. Hobbs, judges; A. J. Churchill, sec., 724 Canton st.

NEW MEXICO.

Dec. 10-17, 1916. Portales Clovis: Eastern New Mexico Poultry Assn.; Shellabarger, judge; Jno. L. Reid, sec.

NEW YORK.

Nov. 13-18, 1916. Cherry Valley: Cherry Valley Poultry Assn.; Geo. M. Weed and J. W. Sloan, judges; D. M. Green, sec.

Nov. 23-25, 1916. Pleasantville: Pleasantville Poultry Club; Geo. H. Baker, sec.

Dec. 11-16, 1916. Buffalo: The Greater Buffalo Show, Wm. H. Gaude, sec., 322 Electric bldg.

Dec. 25-30, 1916. Jamestown: Chautauqua County Poultry Assn.; Alt. Ellison, Burgott, judges; Wm. S. Rathbun, sec., 8 Kingsbury ave.

NORTH CAROLINA.

Dec. 6-9, 1916. Charlotte: Mecklenburg Poultry and Pet Stock Club; Chas. Nixon, judge; Howard C. Hull, sec., Paw Creek, Route No. 10.

NORTH DAKOTA.

Jan. 31 to Feb. 1-2, 1917. Bismarck: Mo. Slope Poultry Assn.; T. E. Quisenberry, judge; Frank Milhollan, sec., 622 1st st.

OHIO.

Nov. 21 to 26, 1916. Dayton: The Dayton Fancy Feather Club; Young and Dipple, judges; C. D. Forney, sec., 1524 W. 3rd st.

Nov. 24-30, 1916. Marion: Marion County Poultry Assn.; F. W. Traviss, judge; Earl Sargent, sec., 135 Waterloo st.

Dec. 6-8, 1916. New Concord: New Concord Poultry Assn.; Chas. E. Cram, judge; F. F. Pollock, sec.

Dec. 11-16, 1916. Kent: Kent Poultry Assn.; Claude E. Coe, judge; F. R. Williams, sec.

Jan. 2-6, 1917. Waynesville: Miami Valley Poultry Assn.; S. G. Case, judge; L. C. St. John, sec.

Jan. 1-16, 1917. Kenton: Kenton Poultry Assn.; H. C. Miller, judge; Jno. P. Siemon, sec., R. F. D. No. 7.

Jan. 8-13, 1917. Cleveland: Cleveland Poultry Breeders Assn.; Platt, Tormohlen, Gault, Stream, Johnson, judges; J. O. Somers, sec., Bedford, Ohio.

Jan. 8-14, 1917. Mt. Victory: The Mt. Victory Poultry Assn.; Z. D. Struble, judge; L. J. Thompson, sec.

Jan. 9-13, 1917. Wauseon: Wauseon Poul-

try and Pet Stock Assn.; F. W. Traviss, judge; Harry L. Merrill, sec.

Jan. 16-20, 1917. Clyde: Clyde Poultry Assn.; J. E. Gault, judge; Earl A. Miller, sec.

Jan. 23-27, 1917. Amherst: Amherst Scientific Poultry Assn.; Geo. Northup, judge; Chas. M. Hamann, sec.

OKLAHOMA.

Dec. 12-16, 1916. Woodward: North West Okla. Poultry Assn.; V. H. Southard, K. C. Ueo, judges; Dr. C. J. Forney, sec.

Dec. 14-16, 1916. Sulphur: Murray County Poultry Assn.; Walter S. Bowers, judge; H. W. Broadbent, sec.

Dec. 28-30, 1916. Ada: Pontotoc County Poultry Assn.; W. Bowers, judge; T. O. Culin, sec., Box 182.

Jan. 8-13, 1917. Enid: Big Center Poultry and Pet Stock Assn.; Tom Wood, judge; C. C. Evans, sec.

OREGON.

Sept. 22-26, 1916. Eugene: Lane County Poultry Assn.; B. F. Keeney, judge; L. R. Kerns, sec.

Dec. 4-9, 1916. Portland: Oregon Poultry and Pet Stock Assn.; J. A. Tucker, B. F. Keeney, Wm. Coats, Tom Wilkinson, O. Nelson, judges; J. M. Mann, sec., 382 Stark st.

PENNSYLVANIA.

Sept. 6-8, 1916. Stewartstown: Stewartstown Agri. Assn.; A. W. Newcomer, judge; J. Harry Richey, sec.

Thanksgiving week. Lebanon: Lebanon County Poultry Assn., Sam Black, sec., 1012 Cumberland st.

Nov. 28-30 to Dec. 1, 1916. Tyrone: Tyrone Fanciers Assn., E. Blair Fisher, sec., 1212 W. 15th st.

Dec. 12-15, 1916. Stroudsburg: Monroe County Poultry Assn., E. M. Paxton, sec.

Dec. 27-30, 1916. Sinking Spring: Lebanon Valley Poultry and Agri. Assn.; Geo. H. Northup, judge; Adam Stitzel, sec.

Jan. 30-31 to Feb. 1-3, 1917. Butler: Butler Fanciers Club; A. F. Kummer, judge; David H. Rankin, sec., 112 Hazel ave.

RHODE ISLAND.

Dec. 5-9, 1916. Providence: R. I. Poultry Assn.; Lambert, Shore, Allen, Roger, Andrews, judges; W. L. Brown, sec., 6 Exchange place.

SOUTH CAROLINA.

Oct. 31 to Nov. 1-3, 1916. Spartanburg: Spartanburg Poultry Assn.; J. H. Drevenstedt, judge; C. W. Anderson, sec., 116 Ezell street.

SOUTH DAKOTA.

Jan. 22-26, 1917. Mitchell: So. Dakota State Poultry Assn.; G. D. Holden, E. C. Branch, judges; R. C. Raines, sec., 207 E. 7th ave.

TEXAS.

Nov. 20-25, 1916. Corpus Christi: Nueces County Poultry and Pet Stock Assn.; H. B. Savage, judge; J. F. Herold, sec.

Nov. 20-25, 1916. Houston: South Texas Poultry and Pet Stock Assn.; Walter Burton, judge; F. W. Allen, sec., c/o Hinke & Pilot.

Nov. 29-30 to Dec. 1-2, 1916. Lockhart: Caldwell Poultry Assn.; C. P. Van Winkle, judge; J. W. Tardy, sec.

Nov. 30 to Dec. 1-2, 1916. Stephenville: Erath County Poultry Assn.; R. A. Davis, judge; W. T. Graves, sec.

Dec. 6-9, 1916. Victoria: Gulf Coast Poultry and Pet Stock Assn.; S. B. Johnston, judge; F. F. Aschbacher, sec.

VERMONT.

Sept. 12-15, 1916. White River Jct.: Vermont State Fair, F. L. Davis, sec.

VIRGINIA.

Sept. 5-6, 1916. Leesburg: Loudoun Heavy Draft and Agri. Assn., Wilbur C. Hall, sec.

WASHINGTON.

Dec. 27-30, 1916. Dayton: Columbia County Poultry Assn.; Oscar Nelson, judge; B. D. Leonard, sec.

WEST VIRGINIA.

Jan. 15-20, 1917. Charleston: Charleston Poultry Assn.; Newton Cosh, judge; Julian C. Byrd, sec., P. O. Box 898.

WISCONSIN.

Dec. 4-11, 1916. La Crosse: Western Wis. Poultry Assn.; Geo. Wells, G. W. Hackett, judges; J. E. Kircheis, sec.

Dec. 14-20, 1916. Beloit: The Beloit Poultry and Pet Stock Assn.; Geo. Wells, judge; Guy S. Lee, sec., 737 Grant st.

Dec. 18-22, 1916. Mukwonago: Mukwonago Poultry and Pet Stock Assn.; H. Hoffman, judge; R. J. Porter, sec.

Dec. 28-31, 1916. Fort Atkinson: Jefferson County Poultry Assn.; W. C. Pierce, judge; J. F. Mueller, sec.

Jan. 3-7, 1917. Sheboygan: Sheboygan Poultry and Pet Stock Assn.; Geo. Wells, judge; Geo. Spratt, sec.

Jan. 4-7, 1917. Fond du Lac: Fond du Lac Poultry and Pet Stock Assn.; D. E. Hale, judge; E. A. Sommerfeld, sec., 79 E. 9th st.

Jan. 8-13, 1917. Mineral Point: Mineral Point Poultry Assn.; Geo. H. Northup, judge; Allen Tucker, sec.

Jan. 17-21, 1917. Green Bay: North Eastern Poultry and Pet Stock Assn.; Geo. Hockess, judge; M. J. Rahn, sec., 305 Main.



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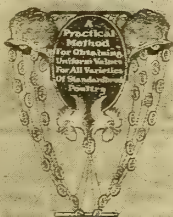
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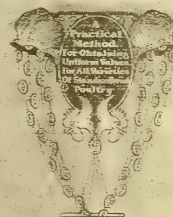
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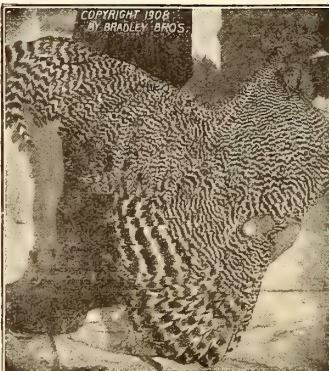


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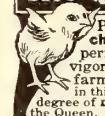
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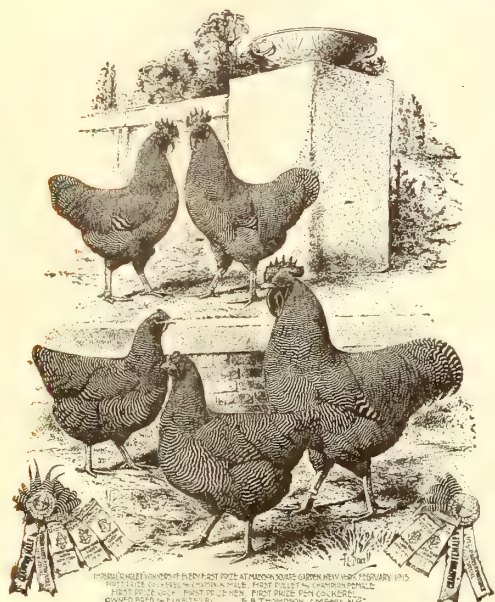
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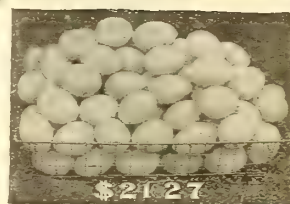
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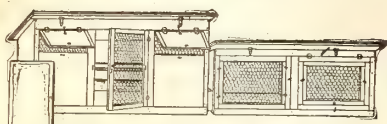
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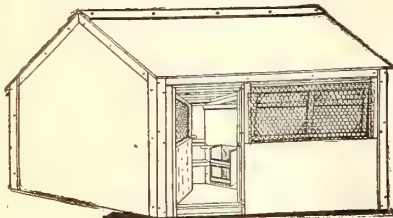


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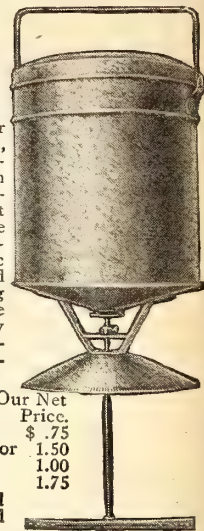
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TABLE OF CONTENTS

	PAGE
GEORGE H. LEE—PIONEER POULTRYMAN.....	1117
WHAT "UNCLE SAM" IS DOING FOR POULTRY..... <i>By Prince T. Woods, M. D.</i>	1118
ADDRESS BEFORE THE AMERICAN POULTRY ASSOCIATION CONVENTION.....	1120
CARE AND GROWTH OF R. C. W. LEGHORNS..... <i>Anna Martin Clarke</i>	1123
EDITORIAL	1124
Learning the Business—Fish Scrap—High Cost of Feeds—Attention, Anconas!—Your Dictionary—Get Together—Use a Typewriter—Our Cover	
DR. WOODS' NOTES AND COMMENT.....	1129
HORTICULTURE FOR POULTRY KEEPERS..... <i>Thos. F. Rigg</i>	1131
RECENT INVENTIONS FOR POULTRYMEN..... <i>Lester L. Sargent</i>	1137
MONTHLY PRIZE CONTEST DEPARTMENT.....	1139
READERS' EXPERIENCE DEPARTMENT.....	1145
NEW YORK STATE FAIR..... <i>P. K. White</i>	1153
WINNINGS OF OUR ADVERTISERS.....	1154
QUESTIONS AND ANSWERS..... <i>Prince T. Woods, M. D.</i>	1155
OUT OF THE EAST..... <i>P. K. White</i>	1164
SHOW DATES	1165

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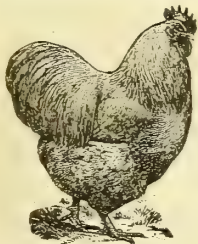
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Abbott, O. M., Whiteland, Ind. 1136
Aldrich Poultry Farm, Columbus, O. 1130
Allen Co., S. L., Philadelphia, Pa. 1134
Almendinger, A. F., Buffalo, N. Y. 1146
Aluminum Marker Works, Pennsylvania. 1136
Am. Poultry Advocate, Syracuse, N. Y. 1154
American Poultry Journal, Chicago, Ill. 1111
Am. School of Poul. Husbandry, Missouri. 1169
Andrews, J. W., Dighton, Mass. 1159
Andrews, S. H., Mineola, N. Y. 1162
Arcady Farm Milling Co., Rondout, Ill. 1154
Astle, Milan C., Momece, Ill. 1134
Atherton, W. B., Randolph, Mass. 1156
Atlas Co., Lincoln, N. J. 1156
Automatic Trap Nest Co., Kenosha, Wis. 1154
Baker, C. R., Abilene, Kans. 1167
Balch & Brown, Manchester, Conn. 1174
Bales, J. S., Springfield, Ill. 1154
Ball, W. J., Salem, Ohio. 1150
Banks, M. H., Dillsburg, Pa. 1144
Barker, M. S., Thorntown, Ind. 1136
Bawden, John, Ridgetown, Ont., Can. 1168
Bayerdorffer, M., Huguenot Pk., N. Y. 1138
Beach, Geo. Watson, New York, N. Y. 1162
Bear Brook Poul. Farm, Massachusetts. 1136
Belgian Hare, Holmes Park, Mo. 1154
Bella Vista Farm, Kimmiswick, Mo. 1136
Belle City Incubator Co., Racine, Wis. 1146
Berberich, Rev. W., Groton, N. Y. 1138
Bernard Co., Phillip, Sioux City, Iowa. 1150
Besse, C. W., Jefferson, Maine. 1158
Beuoy, Geo., Cedar Vale, Kans. 1159
Billings, B. M., Elyria, Ohio. 1166
Bird Bros., Meyersdale, Pa. 1113
Blatchford's Calf Meal Fcty., Illinois. 1140
Bloese, Aug., Chicago, Ill. 1146
Blum, Frank, New Washington, Ohio. 1140
Bock, Oscar L., Council Bluffs, Ia. 1160
Boston Show, Boston, Mass. 1151
Bourne Mfg. Co., Melrose, Mass. 1150
Bradley Bros., Lee, Mass. 1174
Brogden, Thos., Rush Lake, Wis. 1138
Brown Fence & Wire Co., Cleveland, O. 1112
Brown, John L., Anderson, Ind. 1160
Bruerton, M. M., Wakefield, Mass. 1156
Buckeye Incubator Co., Springfield, O. 1141
Buell, Mrs. L. R., Lake Geneva, Wis. 1154
Cadwallader, T., Salem, Ohio. 1174
Cairngorm Farm, Nottingham, Ohio. 1150
Candee Inc. & Brooder Co., N. Y. 1142-43
Carbola Chemical Co., New York, N. Y. 1157
Carpenter, W. W., East Providence, R. I. 1154
Carr Bros., Vineland, N. J. 1112
Carter's Poultry Farm, Jonesdale, Wis. 1146
Carver, A. A., Seville, Ohio. 1127
Cherrycroft Farm, Omaha, Neb. 1134
Chevrot Co., Gambier, Ohio. 1134
Chicago & Alton R. R., Chicago, Ill. 1162
Chiles & Company, Mt. Sterling, Ky. 1112
Clark Co., Newton, Mass. 1138
Cleveland Hatchery, Cleveland, Ohio. 1158
Close-To-Nature Co., Colfax, Iowa. 1153-60
Coburn's Red Sussex Farms, Michigan. 1173
Coffin, H. E.-J. W., Meloney Co., N. Y. 1167
Cole, Frank C., Van Wert, Ohio. 1150
Collins, W. H., New York, N. Y. 1168
Comfort Chem. Closet Co., Toledo, O. 1150
Conkey Co., G. E., Cleveland, Ohio. 1157
Conrad, E. K., Hackensack, N. J. 1156
Cook, L., Oakville, Iowa. 1159
Cook & Sons, Wm., Scotch Plains, N. J. 1160
Cooke, Geo., Racine, Wis. 1158
Corn Products Refining Co., New York. 1168
Cornell Co., Great Barrington, Mass. 1158
Crittenden & Son, Port Huron, Mich. 1169
Cross, Frank, Montague, Mass. 1134
Crotser, E. A., Fulton, Mich. 1156
Cudahy Packing Co., Chicago, Ill. 1163
Curtis, E. G., Atsion, N. J. 1174

Curtiss Co., W. R., Ransomville, N. Y. 1138
Cyphers Inc. Co., Buffalo, N. Y. 1112
Darling & Co., Chicago, Ill. 1158
Davis, M. C., Woodstock, Ill. 1155
Dawdy & Dawdy, Greenville, Ill. 1150
Deege, Grover, Quincy, Ill. 1136
Deem's Buckeye Yards, Eaton, Ohio. 1158
Demberger, L. J., Stewartville, Ind. 1173
Des Moines Inc. Co., Des Moines, Ia. 1167-68
Deyoe's, Dodgeville, Wis. 1168
Doerhoefer, Lewes P., Anchorage, Ky. 1156
Du Pont de Nemours & Co., Delaware. 1156
Eakin, F. M., Bucyrus, Ohio. 1154
Elec. Specialty Co., Salt Lake City, Utah. 1155
Elliott Poultry Farm, Mansfield, Ohio. 1138
Empire Poultry Assn., Mineola, N. Y. 1165
Enslin, T. J., Hackettstown, N. J. 1112
Everfresh Egg Farm, Ionia, Mich. 1136
Faha, Frank, Dyersville, Iowa. 1160
Faulds, T. A., London, Ont., Can. 1166
Felch, I. K., Natick, Mass. 1112
Fernbrook Farm, Albany, N. Y. 1150
Ferris, P. J., Cuyahoga Falls, Ohio. 1140
Fishel & Son, J. C., Hope, Ind. 1111
Fishel, U. R., Hope, Ind. 1135
Fogg, N. V., Mt. Sterling, Ky. 1156
Fourche Mountain Poultry Farm, Ark. 1111
Foxhurst Farm, Lime Rock, Conn. 1154
Frantz, O. C., Rocky Ford, Colo. 1146
Fraser, W. F., East Akron, Ohio. 1146
Friesner & Son, J. W., Bremen, Ohio. 1168
Gamewell, J. A., Little Silver, N. J. 1167
Garbutt, Cora B., Darien, Wis. 1127
Gassmann, Henry, Olney, Ill. 1150
Gensch, F. M., Omro, Wis. 1174
Gensmer Bros., Creston, Ohio. 1148
Gerber, G. J., Dalton, Ohio. 1150
Gilbert Poultry Farm, Haverhill, Mass. 1168
Globe Elevator Co., Buffalo, N. Y. 1153
Glory-Anna Poul. Yds., Louisville, Ky. 1158
Goddard & Sons, W. H., Muncie, Ind. 1133
Gordon, Jessie F., Spring Valley, Minn. 1173
Grant, John, Richmond, Ill. 1156
Grove Hill Poultry Yds., Waltham, Mass. 1150
Halbach, H. W., Waterford, Wis. 1129
Hales & Edwards Co., Chicago, Ill. 1110
Harbin, Edmond J., Riverside, Ill. 1111
Harnly, Mrs. J. H., Zion City, Ill. 1169
Hayward, W. F., Westboro, Mass. 1166
Heasley, Dr. L. E., Holland, Mich. 1159
Henderson, W. W., Bridgeton, Mo. 1153
Hering, Frank E., Indiana, Inside Bk. Cover
Hess & Clark, Ashland, Ohio. 1148-1151
Hewes, Theo., Indiana, Inside Bk. Cover
H. O. Company, Buffalo, N. Y. 1131
Hodgson Co., E. F., Boston, Mass. 1148
Holterman, W. D., Fort Wayne, Ind. 1155
Homestead Campine Farm, Mass. 1163
Hooker, Henrietta E., So. Hadley, Mass. 1156
Houston & Hofius, So. Charleston, O. 1133
Howison, Chas., Sandwich, Ill. 1156
Hubbard, C. H., Lime Rock, Conn. 1154
Hughes, R. R., Charleswood, Man., Can. 1152
Hummel, S. A., Freeport, Ill. 1144
International Glue Co., Boston, Mass. 1128
Ironclad Incubator Co., Racine, Wis. 1153
Ives, Ives & Ives, Guilford, Conn. 1150
Jacobus, M. R., Ridgefield, N. J. 1168
Jensen, Carl J., Waukegan, Ill. 1136
Johnson, Frank, Chicago, Ill. 1144
Johnson Co., M. M., Clay Center, Neb. 1153
Kaup, F. A., Glen Ellyn, Ill. 1166
Keefe, C. A., Muskegon, Mich. 1168
Keeler, Chas. V., Winamac, Ind. 1160

Keipper Cooping Co., Milwaukee, Wis. 1146
Keller, Ira C., Prospect, Ohio. 1152
Kennedy, J. Fred N., Birch Cliff, Can. 1134
Kitselman Bros., Muncie, Ind. 1134
Klein-Lambert Co., Chicago, Ill. 1112
Kulp, W. W., Pottstown, Pa. 1136
Lakewood Farms, Holland, Mich. 1163
Lange, J. G., Detroit, Mich. 1153
Latham, C. H., Lancaster, Mass. 1166
Lee Co., Geo. H., Omaha, Neb. 1151
Lee, Leo A., Chicago, Ill. 1146
Leitner, C. H., Elgin, Ill. 1128
Licene Co., Chicago, Ill. 1162
Licoff Co., Green Bay, Wis. 1138
Lily White Poul. Farm, Saginaw, Mich. 1146
Lingeman, C., St. Louis, Mo. 1146
Lo-Glo Elec. Incubator Co., New York. 1144
Lone Oaks Poultry Yds., Batavia, N. Y. 1136
Longfield Poultry Farm, Bluffton, Ind. 1157
Lord Farms, Methuen, Mass. 1132
McClave, Chas., New London, Ohio. 1153
McConnell, W. A., Richmond, Ill. 1150
Mackey Farms, Gilboa, N. Y. 1154
Mahon, Elton C., Norwood, Tenn. 1174
Mann Co., F. W., Milford, Mass. 1115
Marble Cliff Quarries Co., Columbus, O. 1156
Martin, Mrs. E. E., Downey, Cal. 1111
Martin, John S., Port Dover, Ont., Can. 1128
Martz & Son, A. E., Arcadia, Ind. 1128
Mazelin, Joseph, Berne, Ind. 1140
Meadow Lark Farm, Elgin, Ill. 1173
Meadow Lawn Poultry Yds., Michigan. 1158
Merchants Drug Co., Easton, Md. 1146
Merrell, Arthur, Solon Mills, Ill. 1168
Mersel, Alex., New York, N. Y. 1157
Metzger Mfg. Co., Quincy, Ill. 1134
Minch, Philip J., Cleveland, Ohio. 1154
Mirimichi Poul. Farms, Foxboro, Mass. 1148
Mittendorf, O. F., Lincoln, Ill. 1160
Monmouth Farms, Frenau, N. J. 1145
Moore, R. H., Nellie, Ohio. 1144
Morris Farm, Bridgeport, Conn. 1132
Morris Poultry Farm, Lebanon, Ohio. 1166
Morse's Wh. Legh. Farm, Belding, Mich. 1156
Mountville Farm, Mountville, Va. 1154
Muller & Co., Franklyn R., Illinois. 1138
Myers, C. Guy, Siddonsburg, Pa. 1151
Myers, C. N., Hanover, Pa. 1127
Myers, Frank, Freeport, Ill. 1162
National Poul. Band Co., Newport, Ky. 1174
Natural Hen Inc. Co., Los Angeles, Cal. 1153
Neusitz Co., W. A., St. Louis, Mo. 1138
Newell & Gordinier, Troy, N. Y. 1158
Newtown Giant Inc. Corp., Virginia. 1147
Niemann Bros. Mfg. Co., Mt. Olive, Ill. 1133
Nixon, Chas., Washington, N. J. 1134
Norwich Auto Feeder Co., Connecticut. 1137
Novak Poultry Farm, Racine, Wis. 1146
Nye, C. C., Harriestown, Ill. 1158
Oakes Mfg. Co., Tipton, Ind. 1157
Oculum Company, Salem, Va. 1148
Ohio Marble Co., Piqua, Ohio. 1134
O. K. Company, New York, N. Y. 1168
Old Forge Poul. Farm, Spring Grove, Pa. 1163
Olle, P. J., Racine, Wis. 1158
Orchard Farm, Noroton Heights, Conn. 1159
Owen Farms, Vineyard Haven, Mass. 1116
Pabst Stock Farm, Oconomowoc, Wis. 1111
Palmer & Son, D. F., Yorkville, Ill. 1156
Pape, Chas. G., Fort Wayne, Ind. 1136
Parke, Davis & Co., Detroit, Mich. 1154
Parks, J. W., Altoona, Pa. 1164
Pasteur Lab. of America, New York. 1153
Payne Bros., Portland, Conn. 1173
Peerless Hatchery, Chicago, Ill. 1134
Pennington, J. S., Plainfield, Ill. 1133
Penn. Poultry Farm, Lancaster, Pa. 1144-62



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Birds that have stamina, vigor and true Minorca type bred into the bone. They will reproduce themselves year after year with remarkable fidelity. Our prices will interest you—our goods will please—we guarantee absolute satisfaction or money back. Send for our catalog; the best ever issued in the interest of the breed. It's free.

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Perfect Poultry Supply Co., New York.....1169
 Perfec. Port. Poul. House Co., Chicago.....1157
 Perry, Louis H., Clay, N. Y.....1169
 Pilling & Son Co., Philadelphia, Pa.....1168
 Pittsfield Poultry Farms Co., Mass.....1174
 Platt, F. L., Swanton, Ohio.....1126
 Ply. Rock Squab Co., Melrose, Mass.....1144
 Poorman, John G., Tinley Park, Ill.....1127
 Pope & Pope, Louisville, Ky.....1115
 Porter, A. B., La Salle, Ill.....1169
 Potter & Co., Downers Grove, Ill.....1135-1138
 Powers, J. H., Chicago, Ill.....1145
 Prairie State Inc. Co., Homer City, Pa.....1112
 Pratt Food Co., Philadelphia, Pa.....1144
 Progressive Incubator Co., Racine, Wis.....1165
 Purina Mills, St. Louis, Mo.....1153
 Putnam, I., Elmira, N. Y.....1144
 Quaker Oats Co., Chicago, Ill.....1162
 Queen Incubator Co., Lincoln, Neb.....1149
 Quincy Poultry Farms, Quincy, Ill.....1159
 Rau & Fry, Indianapolis, Ind.....1139
 Ravensley-Shields Poultry Farm, Ohio.....1138
 Read, W. E., Maywood, Ill.....1146
 Read Poultry Farm, Watervliet, N. Y.....1155
 Red Feather Farm, Tiverton 4 Cor., R. 1.....1167
 Reed, Mrs. Hattie D., Marcellus, N. Y.....1169
 Reliable Inc. & Brooder Co., Quincy, Ill.....1112
 Reliable Poultry Journal, Quincy, Ill.....1146
 Reliance Incubator Co., Freeport, Ill.....1159
 Riley, H. J., Bryan, Ohio.....1162
 Ripley Mfg. Co., Grafton, Ill.....1162
 Rockford Poul. Supply Co., Rockford, Ill.....1140
 Rock Ledge Farm, Southboro, Mass.....1157
 Rockwood Farm, Norwalk, Ohio.....1159
 Rogers, F. D., Elgin, Ill.....1173
 Rogers, Mrs. H. C., Oshkosh, Wis.....1158
 Rosemount Farms, Penn., Inside Bk. Cover
 Rowe Sanitary Mfg. Co., Detroit, Mich.....1134
 Rudy, Geo. H., Mattoon, Ill.....1163
 Ruf, Fred A., Crown Point, Ind.....1158
 Sanborn, Dr. N. W., Holden, Mass.....1136
 Sanford, Geo. P., Wheaton, Ill.....1132
 Sargent, Lester L., Washington, D. C.....1138
 Savage, P. L., St. Charles, Ill.....1168
 Schabell, John, Chicago, Ill.....1158
 Schultz, W. F., Cuyahoga Falls, Ohio.....1159
 Schwalge-Smith Co., Elmhurst, Ill.....1113
 Sears, Howard O., Garden Prairie, Ill.....1150
 Sefton Mfg. Co., Chicago, Ill.....1134
 Seward, R. M., Lewistown, Ill.....1162
 Sharp, Herb. E., Spokane, Wash.....1138
 Sheer Co., H. M., Quincy, Ill.....1146
 Sheffield Farm, Glendale, Ohio.....1159
 Sheppard, H. Cecil, Berea, Ohio.....1111
 Shoemaker, C. C., Freeport, Ill.....1153
 Shoenhard, G. H., Freeport, Ill.....1134
 Simmonds, Chas. A., Camp Point, Ill.....1136
 Simplex Supply House, Chicago,
 Illinois.....1112-1162-1163-Inside Back Cover
 Sixt, H. C. & C. W., West Park, Ohio.....1150
 Smith, Eugene C., Aurora, Ill.....1127

Smith, F. S., Hamilton, Ohio.....1131
 Somers, J. O., Bedford, Ohio.....1112
 Southern Poul. Sup. Co., Mobile, Ala.....1158
 Spahr, Albert G., Xenia, Ohio.....1174
 Spencer, John G., Sharpsburg, Pa.....1152
 Spiller, A. P., Beverly, Mass.....1136
 Sprague, P. H., Maywood, Ill.....1174
 Sprecher Bros., Rohrerstown, Pa.....1151
 Starks, M. L., Starks, Wis.....1153
 Stiarwalt, John, Decatur, Ill.....1146
 Stiles, Chas. L., Columbus, Ohio.....1153-1158
 Stratton Mfg. Co., Erie, Pa.....1135
 Struble, Z. D., Bascom, Ohio.....1150
 Sturman, Grant, Mt. Carmel, Ill.....1138
 Succulenta Co., Newark, N. J.....1144
 Sunlight Poultry Farm, Lynchburg, O.....1140
 Sunnyside Poultry Farm, Bristol, Vt.....1160
 Sunset Poultry Yds., Olneyville, R. 1.....1150
 Sunswick Poultry Farm, New Jersey.....1113
 Tarbox, A. & E., Yorkville, Ill.....1155
 Taylor, Geo., Urbana, Ill.....1156
 Taylor Instrument Co., Rochester, N. Y.....1146
 Tenacre Poultry Farm, Princeton, N. J.....1150
 The 1733 Ranch, Kearney, Neb.....1164
 Thompson, E. B., Amenia, N. Y., Back Cover
 Tiffin Poul. Farms & Hatchery, Tiffin, O.....1136
 Tilden Poultry Yds., Delavan, Wis.....1159
 Tompkins, Harold, Concord, Mass.....1133
 Tremper, S. N., Sandwich, Ill.....1150
 Trethaway, Arthur, Wilkes-Barre, Pa.....1153
 Truby, F. J., Lombard, Ill.....1138

United Brooder Co., Trenton, N. J.....1136
 Urban Farms, Buffalo, N. Y.....1168
 Walker, G. A., Polo, Ill.....1138
 Ward, Jr., John W., Pennington, N. J.....1138
 Ward, R. W., Normal, Ill.....1136
 Ward, W. H., Nickerson, Kansas.....1146
 Watson Mfg. Co., Lancaster, Pa.....1152-1153
 Waugh, M. H., Peoria, Ill.....1152
 Wellcome, F. O., Yarmouth, Maine.....1150
 Wendell Incubator Co., Holly, Mich.....1154
 Whatglan Farm, Lancaster, Pa.....1114
 White City Egg Farm, Seville, Ohio.....1146
 White Wyandotte Poul. Yds., Mass.....1168
 Wiebke, W. H., Fort Wayne, Ind.....1146
 Wilburtha Poultry Farms, New Jersey.....1163
 Williams, A. C., Ravenna, Ohio.....1150
 Willow Tree Poultry Farm, Mass.....1132
 Wilson Bros., Easton, Pa.....1153
 Witte, Ed. H., Kansas City, Mo.....1154
 Wolf, Mrs. John, Merrifield, N. Dak.....1168
 Woods, H. M., Carlinville, Ill.....1136
 Woodward, Ralph, Grafton, Mass.....1159
 Woolery Farm, Bloomington, Ind.....1126
 Wotherspoon, Jas. R., Philadelphia, Pa.....1166
 Wyckoff & Son, C. H., Aurora, N. Y.....1152
 X-Ray Incubator Co., Des Moines, Ia.....1144
 Yesterlaid Egg Farms Co., Pacific, Mo.....1168
 Young, D. W., Monroe, N. Y.....1113
 Young Co., E. C., Randolph, Mass.....1112
 20th Century Hatchery, New Wash., O.....1158

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 5 firsts, 4 seconds, 5 thirds, 1 fourth, 1 fifth; Cash Prize for Best Barred Plymouth Rocks.

Incubator Eggs, \$7.50 per Hundred

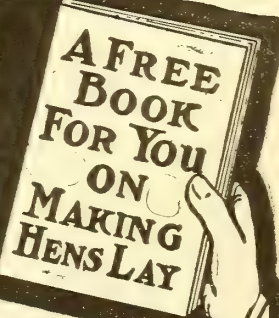
We have over 1500 birds this year, bred to perfection in color and barring, and when you buy this stock you get the best in America today. Our quality is wonderful, yet our prices are the lowest of any of the big breeders. Don't make the mistake of purchasing before you get our catalog and mating list. Send today for 40-page catalog.3

POPE & POPE, Box A, LOUISVILLE, KENTUCKY

CAUTION: Any Bone Cutter claiming to be MANN'S without F. W. MANN-CO. cast on its surface, is an imitation. The genuine MANN'S is made only in Milford.



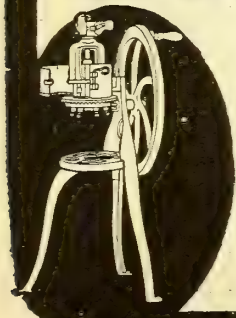
Make Your Hens Lay



Write today for our free poultry books and learn at once what it might take you, alone, years of costly experience to find out. You know how eager fowls are for bugs and worms. Our book tells why. Briefly, it's the animal food they want, and **must have**, in order to thrive best. Chicks, laying hens, cocks, all need it—to develop frame, muscle, feathers, to produce many eggs, to produce fertile eggs. To replace bugs and worms in winter, or, for yarded fowls, feed freshly cut raw bone, prepared with

MANN'S LATEST MODEL BONE CUTTER

Try One Free—No Money Down



This feed is four times richer in protein (the egg-making, body-building element), than corn is, and it is more easily digested and assimilated. **Save** money by cutting down your grain ration. **Make** money by getting more eggs when eggs are worth most and by having better eggs for hatching stronger chicks, earlier and heavier broilers.

Mann's Latest Model Bone Cutter cuts the bone (and all adhering meat and gristle) into a fine, soft mash that fowls of all ages relish and can put to immediate use in producing profit for you. It turns easily, cuts rapidly, never clogs, wastes nothing. We sell it on **10 Days' Free Trial**, without money or deposit in advance—so you may be sure it is right. We even pay its freight back if you are not satisfied.

WRITE FOR FREE BOOKS TODAY. To read them is to know how to feed poultry for most profit.

F. W. Mann Company, Box 56, Milford, Mass.

OWEN FARMS

*White Plymouth Rocks, White Leghorns,
Buff Orpingtons and White Orpingtons.*

**Made a Typical OWEN FARMS Winning
At New York State Fair, Syracuse, Sept. 11-16, 1916**

Where they won 12 out of a possible 20 firsts, 8 seconds, 9 thirds and 9 fourth and fifth prizes. A total of 38 regular awards. The most important of all firsts—*first prize pen*—was won in each variety. 28 Owen Farms' birds won the blue. 8 birds of all other exhibitors combined, won the blue.

Among the Important Specials were the American White Plymouth Rock Club Silver Cup for the Best White Rock, any age or sex; the Onondaga Hotel Silver Cup for the Best Ten Specimens in the Single Classes in Buff Orpingtons; Display Cash Specials, and Cash Specials for most points on Pens. Full details regarding other specials have not come from Mr. Davey as I write this ad.

My S. C. Rhode Island Reds and White Wyandottes

were not shown at Syracuse. Important sales in these varieties made me decide to give my customers the benefit of my best early birds. Later you will realize I am stronger than ever before.

1916 YOUNGSTERS

Since Mr. Davey left for Syracuse, I have spent nearly every minute of day light filling nearly fifty orders. Have handled scores of early birds in each of my six varieties and realize even better than I did before the wonderful average quality that is in my flocks.

You will find here exactly the bird or birds you are needing, whether you wish them to win your show, to breed you winners, or strong, husky utility birds to lay and pay and breed you birds with these characteristics inherent.

You will not be disappointed in any purchase you make of me. Write fully and frankly just what you wish the birds for, and if you will give me all particulars it will greatly help me in writing you. My fine catalog, giving all details regarding my birds, my farms and my generous business methods will help you decide to buy here.

Other Owen Farms Victories

AT MADISON SQUARE GARDEN, NEW YORK, (WHERE 393 OWEN FARMS BIRDS HAVE WON THE BLUE), NEW YORK PALACE SHOW, BOSTON, CHICAGO and the other leading shows of the country have become history.

Wherever Owen Farms birds are exhibited you will find the standing of that show has been raised. Shows that do not have Owen Farms exhibits are considered incomplete. You can help increase the prestige of your show by adding Owen Farms quality to your exhibit and swell your own winnings by calling to your aid the all powerful backing of Owen Farms.

October and November

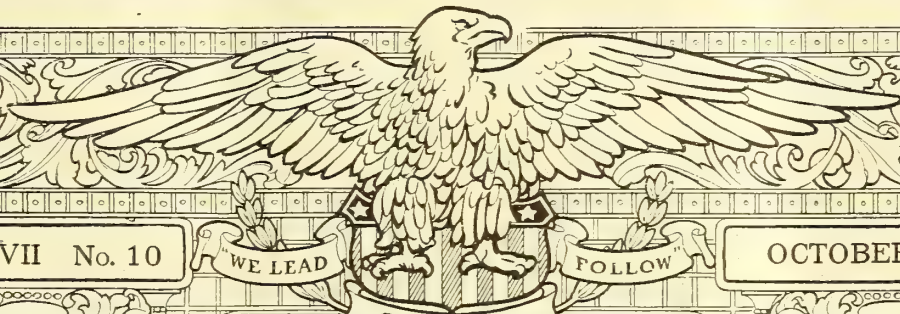
are the months to book your orders. Delivery can be made at your convenience, but an order placed while my flocks are complete will mean the reservation for you of just the bird or birds you desire. Nearly 20,000 shipments have been made during the past few years to the thousands of Owen Farms customers all over the WORLD, and thousands of these shipments have been repeat orders. ABSOLUTE SATISFACTION to a customer means he will come back, and this is the basic note of my business methods. Why not learn by personal experience just what my "SATISFACTION GUARANTEED EVERY CUSTOMER EVERY TIME" means?

My Birds Live; Grow, Lay and Pay. Owen Farms New Illustrated Catalog

will prove a real treat for you if you have not already seen it and is yours for the asking.

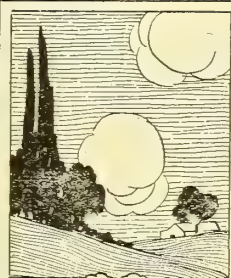
OWEN FARMS 107 William St., VINEYARD HAVEN, MASSACHUSETTS
MAURICE F. DELANO, Prop. FRANK H. DAVEY, Superintendent

AMERICAN POULTRY JOURNAL



VOL. XLVII No. 10

OCTOBER, 1916



GEORGE H. LEE—PIONEER POULTRYMAN

GEORGE H. LEE, of Omaha, Neb., is 49 years old and was born in Le Claire, Iowa. He has been dealing in poultry for twenty-eight years and is a manufacturer of incubators, brooders and poultry and stock supplies. He has bred Barred Plymouth Rocks, Buff Leghorns, S. C. White Leghorns and Pekin ducks.

The "Mandy Lee" Farm is conducted largely as an experimental plant for the well known "Mandy Lee" incubators, brooders and supplies, but, as Mr. Lee says, they have "combined pleasure and experiments with profit in handling the fancy and market trade and have a very select trade on eggs for private

families and really consider this the best end of the poultry business."

Mr. Lee's extensive business interests in Omaha have never permitted him to give much attention to exhibiting at other than local shows, where a liberal share of the premiums have been won, and no attempt has been made to show at long distance from home.

He believes that anyone with a liking for poultry and sufficient pluck and push can make a comfortable living with poultry and is certain that there is abundant room in this country for many more successful poultry keepers and a bigger, better poultry industry.

What "Uncle Sam" Is Doing for Poultry

American Poultry Association Is to Co-operate with the National, State and Provincial Agricultural Departments of the United States and Canada for Progressive Work in Developing All Pure Bred Poultry Interests. Uncle Sam's Simple and Practical Trap Nest. How to Make It. *By Prince T. Woods, M. D.*

ONE of the most important acts of the American Poultry Association at its Forty-first Annual Convention, held in Cleveland, Ohio, was the adoption of resolutions providing for co-operation with the National, State and Provincial Agricultural Departments, colleges and experiment stations, of the United States and Canada, for progressive work in developing all pure-bred poultry interests. The Committee on Government Co-operation as appointed

ation be granted, but for the reason that the 1915 Standard was not ready for distribution, the Finance Committee could not see their way clear to furnish the necessary funds for co-operation at that time.

"The Government has in its employ twenty men doing poultry work thruout many states. They have organized, in several of the states, Girls' and Boys' Poultry Clubs, having a membership of about ten thousand. I hope this co-operation may be granted and not wait twelve months, but let us join forces now. The Department paid the American Poultry Association a great compliment in extending this invitation asking for co-operation."

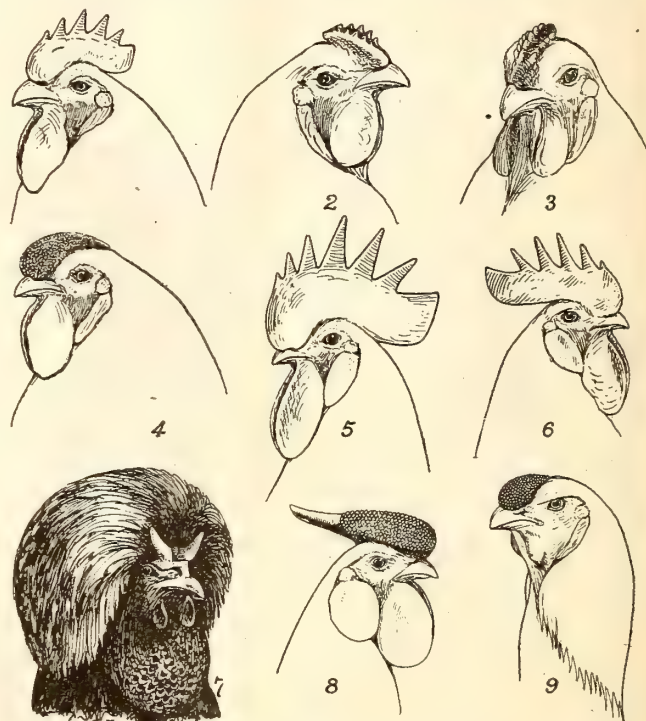
As we understand the action of the Cleveland Convention, Secretary Campbell's request that co-operation become im-

NATURE PROVIDES	SCIENTIFIC CLASSIFICATION.	POULTRYMEN FEED
WORMS AND BUGS	NITROGENOUS MATERIAL OR PROTEIN.	EGGS, MEAT (GREEN BONE OR BEEF SCRAP), MILK OR COTTAGE CHEESE
SEEDS	NON-NITROGENOUS.	WHEAT, OATS, CORN, BARLEY, ETC.
GREENS.	FRESH AND DRIED	LETTUCE, CABBAGE, KALE, MANGLES, ALFALFA, CLOVER, ETC
GRIT.	MINERAL MATTER.	GRIT AND OYSTER SHELL
WATER.	WATER	WATER.

Chart giving table of feed comparison, used by "Poultry Investigations," U. S. Department of Agriculture, for instruction work with Girls' and Boys' Poultry Clubs.

includes Frank E. Hering, South Bend, Indiana; James E. Rice, Ithaca, N. Y.; H. B. Donovan, Jr., Toronto, Ontario, Canada; Charles D. Cleveland, Eatontown, New Jersey.

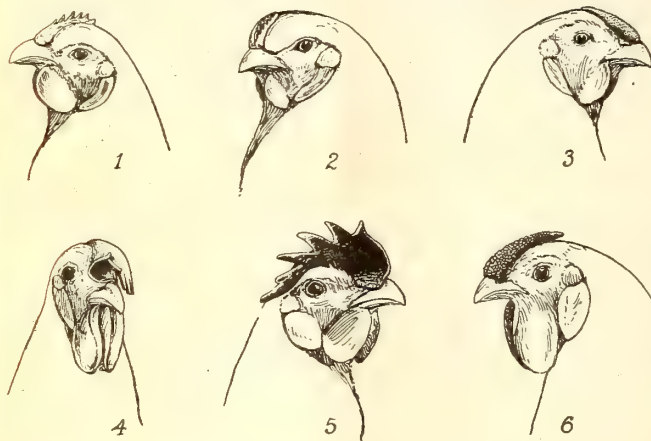
Secretary Campbell, speaking before the American Poultry Association Convention on behalf of the resolutions for co-operation with Government agricultural departments, said: "This is a matter in which the American Poultry Association should be, and I believe is, vitally interested. Two years ago your secretary received from Dr. A. D. Melvin, Chief of Bureau of Animal Industry, a request for the American Poultry Association to co-operate with the Bureau of Animal Industry at Washington, D. C. The receipt of the request was acknowledged with thanks and the secretary wrote to Harry M. Lamon, who has charge of the poultry department. The matter was referred to the Finance Committee of the American Poultry Association with the request that co-oper-



MALE HEADS SHOWING DIFFERENT TYPES OF COMBS

- | | | |
|------------|----------|--------------|
| 1 SINGLE | 2 PEA | 3 PEA |
| 4 ROSE | 5 SINGLE | 6 SINGLE |
| 7 V-SHAPED | 8 ROSE | 9 STRAWBERRY |

Chart used by "Poultry Investigations," U. S. Department of Agriculture, for instruction work with Girls' and Boys' Poultry Clubs.



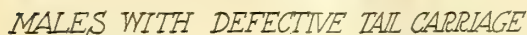
FEMALE HEADS SHOWING DIFFERENT TYPES OF COMBS

- | | | |
|----------|----------|--------|
| 1 SINGLE | 2 PEA | 3 ROSE |
| 4 SINGLE | 5 SINGLE | 6 ROSE |

Chart used by "Poultry Investigations," U. S. Department of Agriculture, for instruction work with Girls' and Boys' Poultry Clubs.

mediately effective was granted and the committee empowered to begin work at once. There is a great opportunity here for the American Poultry Association to do much good for "every poultry interest" and incidentally to accomplish much for its own welfare as an international poultry organization, and to do progressive work for all pure-bred poultry interests in both the United States and Canada. You, friend Reader, should do your share to help boost the good work. Effective team work and co-operation in all branches of poultry husbandry was never more needed than it is at the present time. Efficient co-operation should begin right NOW, and all who are interested should keep everlastingly at it.

This series of articles, of which this is the third, is concerned chiefly with Uncle Sam's poultry work, which is a great work well begun and showing much progress; but we hope later on to tell our readers something about the fine work that the Canadian Government Agricultural Depart-



1. SQUIRREL

2. WRY

Taking moving pictures of a good hatch at U. S. Government Experimental Poultry Farm, Beltsville, Maryland. Here you can see Messrs. Lamon and Lee, of "Poultry Investigations," in their working clothes; Mr. Lamon is at right of the tray and Mr. Lee at the left.

necessary when the hens are laying freely and during hot weather.

This trap-nest may be attached to the underside of the dropping board, with the front facing the pen and arranged so that it can be easily removed, or it may be placed on the walls of the pen. If the nest is placed under the dropping board, the latter will serve as a top for the nest, and the rear of the nest may be of wire to allow good ventilation in warm



One of Uncle Sam's S. C. White Leghorns, U. S. Government Poultry Farm, Beltsville, Maryland, having her picture taken just like you or I. An unusual poultry portrait.

weather. If the nest is placed on the wall, slats or wire should be inserted from the front of the nest to the wall at a sharp angle to prevent the hens from roosting on the nest.

When the hen enters this nest her back raises the door (c), which releases the catch or trigger (a) and allows the door to shut. The catch should be set so that its edge just holds the door, which position is regulated by the screw or nail at the lower inside edge of the catch. A washer should be placed on the screw (d) between the catch and the side of the nest to prevent this catch from sticking. The guard (b) around the catch keeps the nesting material away from the catch. The length of the catch which supports the door and the triangular notch in the door may be varied slightly for very small or very large hens.

CONSTRUCTING A THREE-COMPARTMENT NEST.

Cut four $\frac{7}{8}$ -inch boards for ends and partitions, 12 inches wide by 19 inches long, enough $\frac{1}{2}$ -inch boards $39\frac{1}{2}$ inches long, laid lengthwise, to cover the top, back, and bottom, and one strip $39\frac{1}{2}$ inches long and $1\frac{1}{2}$ inches wide for the front of the nests. Cut three pieces of $\frac{1}{2}$ -inch boards 12 inches long and 3 inches high to insert in the nest to hold the nesting material away from the door.

Nail the top, back, and bottom to the ends and partitions (see fig. 2), insert the 3-inch strips in the nests, and make the guard (b), nailing it to the left side of the nest. Bore a hole in the catch (a) large enough so that the catch will move freely when screwed into position on the side. Place a washer on the screw between the catch and the side of the nest. Place a screw at the lower edge of the catch to stop it when set, so that the catch will just hold the door.

Make the doors (c) of $\frac{7}{8}$ -inch material, 12 inches by 6 inches, and cut a triangular notch in the center 4 inches wide. Put two screw eyes in the top of the doors and bore holes in the front of the nests 2 inches below the top (inside measurement), thru which a $\frac{1}{8}$ -inch wire is run to support the doors.

Attach a narrow strip to the front of the nests for the hens to jump upon when entering the nests. Place a button or block of wood on the front of each partition to hold the door when the nest is closed.

If the nests are to be placed directly below the dropping board, a wire top should be used on the nest, except for a 5-inch strip of wood on the front edge of the top to stiffen the nest.

Address Before the A. P. A. Convention

Frank E. Hering's Stirring Speech, Setting Forth His Ideas for the Reconstruction and Future Progress of the Association Was a Feature of the Convention. We Believe Everyone Interested in Poultry Will Find the Following Report, Giving the Gist of Mr. Hering's Remarks, of Vital Interest.

I WANT to talk to you just a few minutes upon certain constructive policies that I think you men and women ought to consider here. I belong to a number of organizations. I have the privilege of representing the South Bend Chamber of Commerce in the National Organization; I have the pleasure of representing a number of our local civic and commercial bodies, and a number of local organizations, and I feel we have not made the most of our opportunities in this association. I think we have not had the proper vision, in its larger aspect. The man who insists on remaining in the valley, the things he can see are limited in number and just in proportion as that man rises out of the valley and comes along the top of the ridge, he sees things in their greater aspect and importance, and sometimes we are so opposed to things that we forget the larger aspect; and as it has been said by one of the members here, this organization ought not to legislate in the interest of any individual; it ought to legislate in the interest of all individuals, and when it does that, it is legislating in the interest of the poultry culture thruout this country. (Applause.)

I sometimes think we have too many individualists in this organization, and I am not saying this in the way of unkindly criticism. As a matter of fact, you people are individualists. E. B. Thompson would never stand where he stands today, nor the Hawkins, the Fishels, nor the Papes, and the hundreds of other men I might mention, if they were not individualists, if they did not have sufficient belief in their own methods of

producing, and sufficient confidence in themselves to work alone along certain lines that they have laid down, if they did not have that belief, they never would have achieved the success they have; and so in this organization you have a condition of affairs that makes for individualism, and whenever I sit in any committee of, for instance, five, I expect five distinct opinions, and whenever I find that any two of them agree, I find there is something wrong with one of them.

Let me submit this to you: As individuals, we ought to be individualistic in our tendencies, but when we sit here in deliberation for three or four days trying to enact legislation, trying to bring about measures that will not necessarily limit the degrees of usefulness of the six thousand members of this organization, but is aimed to be of interest to half a million people who are interested more or less in poultry culture in this country, when we sit here we ought to forget some of our individualistic tendencies, and make compromises, we ought to act collectively and have a vision not concerned with this man's interests, but a vision for the good of this organization and the general good of poultry culture thruout this country. (Applause.)

You know we have not taken advantage of the very greatest things that lie before us. Let me call your attention to two or three of the things I would call a survey. You know surveys are becoming very popular in business institutions. You know since the advent of the National Advertising Association, of the Rotary Club, the Chamber of Commerce and other

organizations, men have learned that they should make surveys of their business, should take the balance at the end of the year, and if there has been any great loss in any one column, they determine the cause of that loss. They ought to know their business from the scientific viewpoint, and we ought to legislate from the scientific viewpoint; we ought not to leave it as a matter of sentiment; we ought to determine what to do, and then do it. We have in this country the treasury of the Federal Government, and understand the Federal Government is not so separate and apart from you and me; the Federal Government is our government; your taxes and my taxes help to maintain that government; in time of war, your children and my children will be called upon to protect that government; we are an integral part of that government, and I submit that if hundreds of millions of dollars can be appropriated annually from the Federal Government for use of cotton growers and their interests, and to the Forestry Service for reforestation, I submit to you that we men and women of this organization are entitled to our just share in the advancement of poultry culture in this country. (Applause.)

You have sitting in this body a loyal member of the American Poultry Association, a man that has achieved distinction, I understand, before he became associated with the Federal Government in a high and important position. You know the attitude of this man toward the American Poultry Association; you know, so far as his individual tendencies are concerned, he would draw the association closer to the Federal Government—and what have we done to meet this man half way, to meet what this man wants to do? The Federal Government has resources far beyond our own. It has instructors and has the wealth that we do not have at the present time; and let me submit this to you, get away from the idea that five or six thousand men can ever represent the American Poultry Association in its larger degrees of activity. This association—and remember that my specialty has been organization work practically thruout my life, so I know what I am talking about—I tell you, men, that this organization, as a result of three years of intelligent effort co-operating with the Federal Government, and other means I shall name, ought to have instead of six thousand members upon its rosters, one hundred thousand people upon its roster.

Every man and woman that you add to the roster of the American Poultry Association, in whom you have awakened interest in poultry culture, you have added from the selfish viewpoint,—the returns that come into your pocket.

Don't you see that is largely a matter of education? I know that as the result of my four or five years interest in this organization. In one business organization to which I belong in South Bend, business men who live just outside the city limits, when they sit down at luncheon with me, I insist upon talking poultry, and a great many of those men, just by way of amusement, are now interested in poultry, so you see it is only a matter of proper education.

How are you going to educate these people? You know as well as I do that the finances of this organization, so far as any very large material amount of money is concerned, are decidedly restricted. You know just as well as I do that we cannot do, with the money in this organization, the things we want. You know as well as I do we have every ambition in this organization, we have certain reforms we want to bring about, we have certain things we want to do, and every one of those things demands money. You people don't want to tax yourselves additionally; that is unpopular. Why not use the aid of the Federal Government? I understand that there are some twenty special instructors in the Federal Government. In our state of Indiana, we have a splendid young man at the head of the poultry department in our university; we have a splendid man as our County Agent, Mr. Borden, the official officer of those people living on farms, and he is the busiest and most popular man in the county.

If anyone wants to know anything about poultry, he can be consulted. We ought to bring these men in contact with this organization. Let them feel we want their friendship; let them talk the things we are standing for, and then you will find this organization greatly increased in numbers. The facilities today for education are a hundred fold more than they were years ago. I taught in one of the universities for

six years. I want to tell you that we get our impressions thru the senses, seeing, hearing, feeling, tasting and smelling, and the one sense stands out above every other sense, the sense of seeing. You can see a thing and you get your conception of it, and you won't get that conception if you spend twice the amount of time in any other line; so we have the moving pictures. I doubt if there are twenty people here who are not interested in moving pictures. You may not be interested in some of the movies, but you are interested in others.

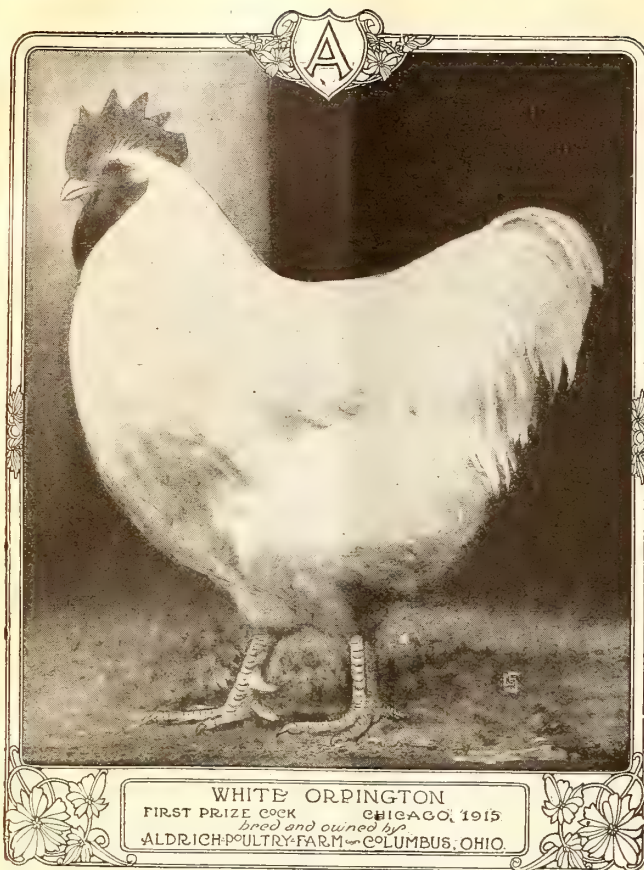
My friends, this is one organization that I know of that ought to use moving pictures, that is using moving pictures to a minimum. Let us show people upon the screen what our standard bred fowls are, let us give them the information they ought to have, and give that information in the tenement district of the city, as well as in the smaller locality; let us educate and co-operate with the State and Federal Government. Let us get our State and Federal Government to make an appropriation, and let us educate and educate, and your Scranton school of correspondence will be benefited, and your particular farm will be benefited, all those things will be



Barred Plymouth Rock, first prize cock great Armory Show, Louisville, Ky., November, 1915. Also won special for best shaped and colored male in keen competition. Bred and owned by Pope & Pope, Louisville, Ky.

benefited just in proportion as we educate the millions of people in this country who are not poultry breeders.

First, let us work with the Federal and State Government; second, let us educate thru the means we have at hand, and, finally, let us organize. It is the easiest thing in the world to organize, and remember that is one thing of which I know what I am speaking about. I say it is a shame—I am not laying the responsibility upon any one person, because we are all equally to blame, we cannot blame any officer for what we ourselves do not provide for. I say it is a shame that this organization has only six thousand members. I say that instead of putting restrictions in our constitution to keep people interested in poultry out of this association, we ought to tear down absolutely every fence except certain fundamentals that they must necessarily accept, if we are going to be an organization at all, and bring tens of thousands of people into



this organization; I say it is a shame to erect fences of technicalities to keep people out of this organization; I say that it is a shame to say to those people, "We are on the inside, and you chaps will have to climb that fence to get in here, if you want to." You cannot go into any state, the American Poultry Association, and dictate to the state legislature how it shall give the money of that state for poultry culture, but I say that this organization can sacrifice anything short of absolute essentials to bring into close contact with this organization, those people who, for one reason or another, are outside the bounds of this organization. Let us tear down some of these fences, and instead of making it hard for a man to join, let us make it easy for him to get in. (Applause.)

In St. Joseph County we have an organization of 150 members, and I dare say in Ohio we have 300 members who are not members of this organization, and it would not be a very difficult thing to get that entire association and to have them send a representative here to pay a per capita tax of five or ten cents, if this association would make it worth while.

Another thing I want to speak about: We find the air of suspicion permeating everything; you can stand in that lobby downstairs, and there is suspicion. Now, I believe you are honest men and women, and as soon as I come to the conclusion that you are not, in self-respect I am going to withdraw from among you; and I am tired of hearing that the only dishonest man engaged in buying and selling poultry, is the poultry breeder. There are dishonest breeders, but God knows there are as many dishonest purchasers as there are dishonest breeders. (Applause.)

I say, I am in favor of purging this body of every man who can be shown to be wilfully and maliciously working against the honor of this association. At the same time, I believe that this association ought to help the honest breeders in the association to get their rights against dishonest purchasers. I have known purchasers to go to this White Leghorn breeder and to that White Leghorn breeder, and after he has harmed the business interests of four or five of the White Leghorn breeders, these White Leghorn breeders will get together and someone will casually mention the name of "Smith" who purchased a fine pen from him and refused to pay or sent it

back, or refused to accept it on a technicality, and some other Leghorn breeder will say, "I had the same experience with that fellow. You will find he is a dead beat." He was using one after another of you specialty breeders. In your town you have a credit association, haven't you? And if there is a dead beat in the town that purchases from a grocer, he doesn't get farther than two grocery stores before those men know about it; and here we have not got in the American Poultry Association, you breeders have been so short-sighted, that you have permitted the lances to be thrown at you without taking any measure for your protection; and I know there is just as much and more dishonesty on the other side. (Applause.)

Don't you think it might be advisable to have a credit bureau in the American Poultry Association, and if a man is found whose actions are not absolutely open and above board, his name should be posted on the record of your secretary, so that that information is open to all of us? Don't you think we ought to do that? I say we ought to enact some constructive legislation, and I voice the sentiment of the gentleman that preceded me, do not let us indulge in personalities. Let us grit our teeth and determine this, to see that equal and exact justice is done to everybody. We are here in the interests of the American Poultry Association, not as men, not as individuals, not as a group; we are here today to put this association where it ought to be because it is to our particular interests to do it, and because we want to work, even in business, toward an ideal; we want to feel that we are interested within ourselves, and to feel that we are associated with honest men, and feel that this industry shall have an interest for a million, two million, five million people in five, fifteen and twenty years in the future. I thank you. (Applause.)

The American Embassy at Paris, France, writes us that their office is visited every day by people who desire to learn of American methods and equipment in the poultry field, and that they will be glad to receive copies of catalogs, price lists, etc. Address American Commercial Aattché, 36 Avenue de l'Opera, Paris, France.



One of the birds recently purchased by The 1733 Ranch, R. 6, Box 2, Kearney, Neb.

Care and Growth of R. C. W. Leghorns

Selection of Breeding Birds—Methods of Feeding and Housing, Hatching, Rearing and Proper Development of the Chicks. A Contest Article.

By Anna Martin Clarke, Kelso, Okla.

FOR many years, the Leghorn has been recognized by thousands of people as a typically egg laying breed. While the R. C. White Leghorn is a comparatively new breed, it certainly is a coming leader in the poultry world. They are sufficiently hardy to meet the climatic conditions of all parts of the United States and Canada.

Chicks of this variety develop rapidly and mature much earlier than the larger breeds. Five and one-half and six months old pullets, if they have received good care, are ready to lay. They do well in confinement or on range and require less food per bird than many larger breeds. For egg laying the year round, the size, weight and number of their eggs, out-distance their competitors. The eggs from my flock average twenty-four ounces per dozen. They are fine foragers and therefore make a fine fowl for the farmer.

As an exhibition bird the Rose Comb White Leghorn cannot be beaten and few sights are more attractive than a flock of these birds scattered over a lawn or busy at work in the orchard or field.

In order to produce fertile eggs that hatch strong livable chicks, only vigorous full sized breeding fowl should be put into the pens. Great care should be taken in selecting a healthy and vigorous male, upon whom one can safely rely to fertilize a good per cent of the eggs. As a rule, good results may be obtained by mating fifteen or eighteen hens to a fully matured yearling cock.

We use males with fine body, of good length, heavy breast and with a good concave sweep to tail. Legs should be of good length with good yellow shanks. Good comb, square in front, and a good spike straight back and with white flat ear lobes, and dark bay eyes. He should be out of heavy laying dam. With him, we mate hens with heavy breast and good length of body, tail well developed but carried a little lower than that of the male. Legs not too long, set well apart, with clear white medium sized ear lobes, and with the comb corresponding with that of the male. We make it a practice to breed from no birds unless perfectly healthy and absolutely white in quills of tail and wings.

In feeding, the flock should be given a well balanced ration or at least allow them to balance their own ration by having access to a variety of grains, animal, vegetable and mineral foods necessary for good bodily development, and for heavy egg production.

The method of feeding which has given us the best fertility is as follows: Night and morning, one quart to each twenty fowls of equal parts cracked corn and whole wheat. In extra cold weather they are given an extra feed of shelled corn at night. At noon, we feed a moist mash composed of fifty pounds of bran, fifty pounds middlings, twenty pounds beef scrap, to which is added a like quantity of steamed alfalfa or clover. We keep grit, oyster shell and dry crushed bone before them at all times.

Our fowls are housed in roomy, open-front houses, free from dampness and drafts and altho the thermometer goes as low as fifteen below zero, we have not had a single frosted comb. We keep a foot of clean dry straw on the floor of the scratching shed where they are fed morning and evening.

Breeding birds should not be forced for egg production. We allow the breeding birds free range, the females in the breeding pen having been selected from the best layers of their pullet year and the males sons of good layers.

During the hatching season, if the weather is cold, the eggs are gathered several times a day and kept in a dry cool place where the temperature does not go above sixty degrees or below forty. Only strictly fresh eggs are incubated, none older than two weeks being used.

The R. C. White Leghorn is rightly called a non-sitting variety. It is very seldom that one stays on the nest over night and if removed at once will start laying again in a week.

It is therefore necessary to hatch the chicks under hens of sitting varieties or in an incubator. Eggs from this breed are good sized and uniform in shape and color. From 215 eggs from my flock of Leghorns placed in a machine last spring, I got a flock of 178 strong likely chicks.

In using an incubator, we regulate the machine and see that it is running in good shape before putting the eggs in, and then keep it running at 102 degrees the first week. After the third day we turn the eggs night and morning, changing the traps from side to side once a day. In the hatch spoken of above, we tested out nine eggs on the seventh day, leaving 206 in the machine. The second week the temperature kept at 103 degrees and we tested again the seventeenth, taking out eleven more eggs. The 195 left in the machine were turned



Feeding time at Windcrest, Home of Ward's Champion Dark Cornish, Pennington, N. J.

the last time on the eighteenth day and then cooled twice daily until the evening of the twentieth day, when they began to pip. The doors were not opened any more until the evening of the twenty-first day, when we found 178 well-hatched fluffy chicks.

I brooded them in an upstairs room with a stove, as it was cold weather, and we had no other means of caring for them. The floor of the room was covered, and a heavy litter of mow sweeping provided. The little fellows seemed to feel right at home at once and arranged themselves in a circle around the stove with every appearance of being comfortable and happy. The temperature was kept around ninety-five degrees for about a week and was then gradually decreased to seventy-five degrees by the end of the tenth day.

They were not fed until they were forty-eight hours old and the first feed was hard boiled egg ground fine, shell and all, mixed with same dry bread crumbs and fed in a shallow

(Continued on Page 1136)

"WE LEAD, OTHERS FOLLOW"

EDITORIAL

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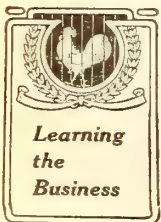
State of Illinois, County of Cook, ss.:
G. M. Atwell, president of the Atwell
Printing House, Chicago, being duly sworn,
certifies that the American Poultry Journal
has contracted for printing and binding
65,000 copies of the October, 1916, issue.
G. M. ATWELL.

Subscribed and sworn to before me this
18th day of September, 1916.

(SEAL)

ALICE A. SHEHAN

Notary Public.



IT IS EASY to make a start in the poul-
try business. It is not difficult for
anyone of average intelligence to
learn the essentials of poultry keep-
ing. Beginners frequently have un-
commonly good results the first sea-
son, when the land is new to poultry
and all equipment is new, clean and
bright.

Poultry profits are particularly attractive to those
who enjoy figuring them on paper. Yet, poultry
keeping for successful results, year in and year out,
is not as easy as it seems on the surface of things.
There is no bonanza—no get-rich-quick, extraor-
dinary profits—in poultry keeping. As a side line,
with other paying work, for the back-lotter, for the
farmer, for the suburbanite, poultry keeping pays
a good return for the attention given and it is inter-
esting and healthful work, that keeps the poultry
lover out of doors and that supplies helpful relaxa-
tion from other lines of endeavor. As a specialty
business, for the experienced and skilled, it can be
made to pay a fairly good living and, under favor-
able conditions, *something more*.

It is surprising how many intelligent professional
and business men, successful in their line,
look upon the poultry business as an
undertaking into which they can safely
plunge without previously acquiring
knowledge of the work, experience, or
skill. It is easy enough to "plunge," but
usually the experience follows promptly,
discouragingly, and in large bunches. In
any other calling such men would expect
to have to begin at the bottom and work

up as they learned the business. But it is so easy
to put money into poultry, so easy to get in beyond
one's depth at the start, the figures on paper are so
attractive and seductive, that one is tempted to
make the plunge, without previous experience, only
to find out that knowledge and skill are necessary if
one is to get the money out again, and that one
must learn the business from the bottom up if one
is to make it pay.

Sometimes we think that first-season success is
about the worst thing that can happen to the opti-
mistic beginner. He gets to thinking that poultry
keeping is "dead easy," with a few short months'
or one of two season's experience he thinks he
"knows it all;" and, after that, he is a lucky man if
he does not ride quickly to a distressing fall. While,
if one is at all observing, the essentials of successful
poultry keeping are easy to learn, we do not believe
that any man has yet lived long enough to know all
about it. We have been at it many years, but we
had to unlearn a lot we thought we knew at the
start, we have to unlearn a lot as we go along, we
try to learn something new and useful every day,
and we have been at it long enough to realize what
a vast lot of things there are that we do not know

and have yet to learn about poultry.
Every time we attend a meeting of poul-
trymen, or visit with a brother poultry
keeper, we obtain new light on some
phase of poultry keeping and learn some-
thing. When we find that we are getting
too old to learn, or get to thinking that
we know it all, it will be time for us to
quit before the axe falls.

Beginners will be wise to study the sub-



ject well and to learn all they can before embarking in the poultry business. Start the work first, if you can, as a side line with your other work that pays the living expenses. Look before you leap and don't plunge headlong until you have a pretty sure knowledge of where you are going to land. Study poultry books and journals. Attend some Agricultural College short course in poultry if you can. Visit poultry plants, attend the shows, talk with practical and successful poultrymen—most of them are willing enough to talk. Do not believe everything you hear and read,—use your eyes, ears, and powers of observation.

Remember, tho you may be able to grow poultry, to breed pure-bred fowls, to raise good chicks, that it takes salesmanship to sell your product. When considering your location and the development of your prospective poultry plant, besides figuring on what you will raise and how to do it, consider also how you are going to market at a living profit what you produce.

If you would succeed, start at the bottom and work up, just as you would in any other line of endeavor. When you make a start, put good whole-souled thought and effort into making a success of the work.

Proportionately, we do not believe that there are any more failures in the poultry business than there are in other callings, but it is a business where experience and skill count large, where strict attention to the details of the work are necessary, where common sense and an ability to observe things intelligently are essential, and where losses may come quickly if one fails to learn the essentials and to attend strictly to business.

If you have a fondness for poultry work, are willing and eager to learn, will sacrifice personal pleasures for the sake of attending to business when occasion requires, have plenty of pluck, perseverance and push, and don't get bitten too hard with the "know-it-all bug," you can succeed with poultry.

Start wisely and make haste slowly.



FOR A NUMBER OF YEARS we have been using fish scrap or fish meal for feeding breeding and laying stock and growing chickens. We have found such stock feeds made from fish waste to be desirable, satisfactory and economical. Such fish scraps and meals as we have used have given only good results and we have not had any sug-

gestion of taint or flavor of fish in either eggs or meat.

While we have used the dry scrap or meal, and have used waste fish freely, there are several sorts of moist fish flakes which we have not used and are not prepared to recommend for poultry feeding. Among the last named moist-pack fish flakes we have had one sample that was heavily salted and we do not consider such salt fish food desirable for poultry feeding, altho it might be freshened first and then used with comparative safety.

Such fish scraps and meals as we have used, generally run from 45 to 54 per cent protein, from 16 to 35 per cent bone, from 2 to 8 per cent fat. We think it is safe to say that the best commercial fish meat feeds (dry) will run better than 40 per cent available protein or flesh forming food. The mineral food in the contained fish bone will show a large

per cent of lime phosphate. The manufacturers guarantee that, when fed according to directions, no fishy flavor will be imparted to eggs or flesh of poultry.

Altho a considerable industry has developed along the Atlantic and Pacific coasts in the preparation of stock food and fertilizer from fish waste, this industry is still in its infancy and the greatest sources of supply have scarcely been touched. Along our Southern coast thousands of tons of waste fish are still dumped into the ocean to get rid of it, instead of utilizing this valuable supply for stock food and fertilizer. Here is a source of national wealth, and of inexpensive, tho valuable food and fertilizer, that is in need of much greater commercial development.

Uncle Sam has turned his attention to the importance of this comparatively new industry and publishes results of investigations in a press circular on "Stock Food from Fish Waste" and in Bulletin No. 378 on "Fish Meal: Its Use as a Stock and Poultry Food." His investigators say that: "The use of fish meal in this country at the present time for feeding purposes is so limited that it may be said that in commercial quantities it has scarcely begun to be marketed." Also, "Nearly 120,000 tons of valuable stock and poultry food, high in protein, can be produced annually from the wastes of the salmon and sardine packing industries, and of the menhaden fish-oil and fish-scrap factories along the coasts. This is exclusive of additional wastes from tuna packing companies and does not include a large additional tonnage of valuable stock food that could be made from dog fish, now the bane of the market fisherman. * * * According to conclusions reached by the investigators, a vast amount of fish waste, which now is being used wholly for fertilizer and fish-oil, can readily be made to yield a better quality of fish-oil and a vast tonnage of a highly concentrated feedstuff. They point out that there will be little loss of fertilizing resources, because most of the valuable fertilizing elements in fish, which are retained in fish meal, will be available in the manure of the animals fed on this form of concentrate."

Experiments conducted by the Bureau of Chemistry show: "That after pressing out an unusually high-grade oil, the fish residue could economically and easily be turned into fish meal, which cattle, pigs and poultry would eat readily and which, in addition, kept as well as meat scrap, meat meal, or other high protein concentrates. The only requirement was that the fish residue should be made into meal while still fresh."

In our own feeding of fish scraps and fish meals we have used only such as showed a very low per cent of oil or fat; using those made chiefly from fresh fish waste, like cod heads, or from waste fish of sorts that are practically free from oil. In addition to being produced by packing establishments, desirable fish scrap is made as a by-product in the preparation of fish glue and it has been stated that oily fish cannot be used for making good glue. From the fisheries of the Great Lakes it is possible to obtain, at a low price, eel pouts which supply a desirable fresh fish food that is free from oil. Fish food for poultry feeding can be obtained anywhere that there are extensive fishing interests and fresh fish for poultry feeding—for immediate use while fresh—is easily prepared by simply scalding or

boiling the fish and mixing same with the mash. It is good for poultry of all ages.

In feeding of fish scrap, a German authority suggests that the daily ration for fowls should not contain more than 10 per cent and for chickens not more than 5 per cent of entire ration.

When buying fish scrap, secure a freshly prepared product and be sure that it is dry and free from lumps. Fish scraps or meals which have been wet and heated during shipment or storage, are not fit for feeding and will be lumpy, the caked parts showing green color on breaking up the lumps.

Fish scrap, meal or flakes which have been heavily salted, or which contain above 3 per cent salt, should not be used for poultry feeding. Certain forms of fish scraps or meals are prepared from fish residue that has been treated with acid and such are good only for fertilizer. Acid treated scrap should never be used for poultry or stock feeding and the purchaser should require a guaranty from the manufacturer that acid or injurious chemicals have not been used in the preparation of the fish scrap or meal.

High Cost of Feeds.

AT THE present time it looks like another winter of high cost of grains and milled feedstuffs. The "high cost of living" appears to be with us to stay for a while.

To offset this, business circles continue to show prosperity which looks like the lasting kind. Poultrymen are getting rather better prices for market eggs and poultry than in previous years. The demand holds good. Cold storage supplies are reported as shorter than common for the season. Prices of new-laid eggs and fresh-killed poultry should show a firm upward trend, with no great falling off in demand. The demand for breeding stock is, we believe, improving considerably. A good many people are starting with poultry to help lower the "high cost of living" by producing their own table

eggs and poultry meat, and we believe they will find such poultry keeping satisfactory. A wholesome interest is being shown in the exhibits at fall shows and the big winter exhibitions should create and stimulate greater interest in pure-bred poultry. Taking everything into consideration, the coming season should prove the best one in a long time.

The wise poultry keeper will carry only as many birds thru the winter as he can care for properly and feed well for best results. In feeding well he will consider the high cost of feeds and lessen his feed expenses by carefully planning his ration, but he will not take chances by using low grade feeds. It does not pay to use inferior foodstuffs simply because the price per hundred pounds seems cheap. The quality feeds are cheapest in the long run.

It is possible, however, to cheapen the ration of stock birds in a legitimate manner without injury to the birds or fall-

TO OUR READERS.

Our subscribers are our friends and we use every effort to protect them in every way. We believe that every advertisement in this issue is signed by trustworthy people, and to prove our faith we will make good to our subscribers any loss sustained by virtue of their having purchased fowls or goods from one of our display advertisers.

All we ask is, that in ordering the fowls or goods, you mention to the advertiser that you saw the ad in American Poultry Journal; also that the purchase be made during the month or months in which the ad is inserted, and in case of loss notify us of the fraudulent misrepresentation of the advertiser, giving us full particulars as soon as it occurs. In all cases in writing to advertisers say, "I saw your ad in American Poultry Journal."

ing off in yield. Good, bright, green cured cut clover is selling at a low price this fall and it will help to cut down the cost of the mash and at the same time supply good and desirable food. Waste vegetables are plenty at this season and can be stored to help cut down the feed bill, and they make excellent winter

food. Elaborate feed mixtures are not essential to good results and they are unduly expensive.

Since wheat has been so high we have fed very little of it and for grains are using chiefly cracked corn and whole oats. If good, well-filled, sound, sweet grain is used, a mixture of equal parts by weight of wheat, cracked corn and whole oats will make as good a scratch grain as any. On cold evenings a full feeding of whole or cracked corn will help to fill out the ration. A dry mash made of 50 pounds best cut clover, 100 pounds each of wheat bran, white middlings, cornmeal, ground oats and gluten, with 50 pounds each of fine ground beef scrap and fish scrap, will give you as good a mash as may be had. A daily feed of greens, or of chopped raw or cooked vegetables, will help condition of the birds, stimulate production and keep down food cost. Feed the birds well, but don't waste the food.

Keep nests clean to prevent losses thru dirty eggs. Clean up on egg sales at least twice a week. Do not carry over winter any birds which you do not need as producers, breeders, or for sales stock. Keep only productive birds and don't carry any "boarders" or "wasters" in your flocks. You can make this a good and successful poultry year if you put real effort into getting results and making sales.

Attention Anconas!

ANCONA breeders, we want your attention. The latest AMERICAN POULTRY JOURNAL article contest is for your benefit.

H. Cecil Sheppard, of Berea, Ohio, originator of Sheppard's famous Anconas, offers a \$50 cockerel as first prize for the best article on Anconas, especially setting forth the truth about this breed and why Anconas have become so popular. As a second prize, for the next best article on this subject, he will give a \$30 sitting of eggs.

Here is a splendid opportunity to get Sheppard's high grade stock thru a little effort to help boost the breed at the same time.

The contest is open to all readers of the JOURNAL. Articles should be about 1,000 words long and must be written on one side of the paper only. Announcement of the winners will be made in the December issue. We reserve the right to publish or reject any or all articles and no manuscript will be returned.

The contest will close on November 1st. All articles must be in our hands by that date or show a post-mark not later than October 30, 1916. The articles will be judged and prizes awarded by the editorial staff of AMERICAN POULTRY JOURNAL.

Send all articles to Dr. Prince T. Woods, Editor AMERICAN POULTRY JOURNAL, Lock Box 4, Silver Lake, Massachusetts. Do not delay, start your article now and see how good and how interesting and helpful you can make it.

RED SUSSEX

Excellent values in Cockerels and Pullets. Well bred and well grown.
F. L. PLATT SWANTON, OHIO

AMERICAN WHITE ORPINGTONS

WILL WIN FIRST PRIZE
FOR YOU ANYWHERE



We can furnish you a Cock, Hen, Cockerel, Pullet or Pen from the "best line of males in the country." Every individual American line-bred bird of eight years' standing. Pure white color, massive type and heavy laying ability are so intensely bred into these birds that they are acknowledged supreme by all. The most reliable reproducers of any strain. Ask any judge or breeder that knows, "Who has the best White Orpingtons?" "Woolery Farm, of course!" These birds are American line-bred and they win and lay. No breeder today can give you more in real value, nor will go further to give you the best satisfactory service.

We are the originators of the American bred White Orpington, and want all good breeders to know and appreciate their value. Get our winnings at the National Club shows, Chicago Coliseum, Madison Square, Hagerstown, Cincinnati, Indianapolis, and remember we bred every one of these winners, his sires and grand-sires. If you breed strictly Woolery Farm's American-bred strain you breed the best, and if you can advertise them you will find a ready market for all your surplus stock and eggs. Write us your requirements today; we can fill them promptly. New Catalog-Mating List ready January 1st. Register your name for one now.

WOOLERY FARM, Ralph Woolery, Prop., Box A, Bloomington, Ind.



Fashion Plate Buffs

Buy this Strain to make sure your wins and profit by this trap-nested, line-bred blood to improve your flock. Cockerels and pullets in good finish and the best line of cocks and hens ever offered. Send for the *Fashion Plate Book* and read the record of our Buff Orpingtons—free.

A. E. MARTZ, BUFF ORPINGTON SPECIALIST
AND JUDGE

Box A, ARCADIA, IND.

Your Dictionary.

AN AMERICAN humorist, on being presented, by the publishers, with a new edition of their dictionary, wrote: "It is a fine big book, very interesting, and I have read it thru and looked at all the pictures, but it does not seem to be very connected."

How often do you, Mr. Reader, consult a modern down-to-date, standard, unabridged dictionary of the English language? Have you one such book in your home? In your business office? Occupying a prominent and easily accessible place? If not, why not?

Happening to be in a supposedly modern business office recently we desired to consult the dictionary. It was only found after a diligent search. When found it proved to be an edition that was out of date 20 years ago. Our good opinion of the management of that office suffered a considerable depreciation.

In our home and in our office a modern dictionary occupies a prominent place. It proves a most useful and frequently consulted book. Besides using the dictionary for the purpose of determining the spelling, pronunciation, and meanings of words; our children, our employees and ourselves find the dictionary to be a great storehouse of general and technical knowledge. For history, biography, geography, colors, construction of mechanical appliances, statistics, various lists of equivalents, lists of animals, fruits, flowers, foods, flags, etc., etc., in fact as a complete and concise handy reference library the modern large dictionary is the first book consulted. If child or adult wants to know the spelling, pronunciation, use, or meaning of a word, the advice is "look it up in the dictionary and then you will not forget it."

Do you own and use a modern up-to-date dictionary? Or is your dictionary incomplete and years behind the times? The book should occupy a convenient place in your home and in your office. It should be one of the most frequently consulted volumes you possess. Its use should be encouraged. Although, as the humorist said, the various subjects may not be "very connected"; you will find that if you own and use a good modern dictionary that its daily use is intimately connected with everything in your every day life and that it will prove of great usefulness and educational value.

Own a modern large dictionary. Use your dictionary for the purpose of easy access to a vast wealth of useful and necessary information.

Get Together.

IN the September number of *Everybody's* "Big" Theo. Hewes makes the following remarks concerning some of the business of the Cleveland Convention:

"We have heard so much about the two famous hucksters from Iowa that everybody was particularly interested in giving them the onceover. Many of the fanciers knew Mr. Carl Dare, but they had never met Mr. Jones; and when he was pointed out to different members, the same remark was heard from all sides: 'Now, is that the fellow?' When he presented his case before the Executive Committee, after being dragged away from his business and worried for the past six months, I give it as my honest opinion that no man, at any time or place, ever came before the Executive Committee of that body who made a better impression on that committee; nor a man who had his case in better shape to present—testimonials and affidavits that the man who made the charges against him couldn't get on a bet; but there he was, to be charged with something that the man who made the charges had been doing all his life. Did they expel him from the American Poultry Association? Well, I guess not!"

Mr. Hewes knows more of the inner workings of the American Poultry Association Executive Board than the writer of this editorial and possesses more first hand information on this particular case than we do, and, we believe that the public at large is entitled to this personal expression of his "honest opinion." We heard a good many members of the American Poultry Association express the same opinion, tho in different words.

It is a great pity that some of the most active members in the American Poultry Association have seen fit to so often waste the Association's time by "preferring charges" against fellow members that are not sustained by the evidence and that frequently may be the result of misunderstandings and jealousies. There has been altogether too much of "preferring charges," too much "going on record," and too much ill-conceived publicity, in matters where the actual wrong doing turned out, on cold analysis, to be simply a rather bitter difference in opinion. Such quibbles, played up to the public in sensational press reports, do injury to everybody in the business and cannot possibly do good. For a long time, in certain poultry circles, there has been manifested altogether too much jealousy, too much greed for personal gain and glory, too much desire to compel obedience, and not enough of the real "get together" spirit of wholesome co-operation for the good of all and of the whole poultry industry.

We are glad that the Cleveland Convention developed such a strong spirit



"Lady Alfarata," 301 Eggs

Stock, Eggs, Baby Chicks

From My Improved Laying Strains of

S. C. and R. C.
Rhode Island Reds
White and Barred
Plymouth Rocks
White and Buff
Orpingtons
White Wyandottes
White Leghorns

and your careful attention means your success. This is your opportunity to procure a start from strains that have given entire satisfaction to over 4,500 customers in this and foreign countries.

Stock Sale

In all my breeds I have some exceptionally good breeders (hens and cocks) to offer for the first time. It is the stock that has produced the eggs and chicks for over 4,500 satisfied customers. My regular prices are very reasonable. This gives you the opportunity of buying real layers, a foundation for future success. I have some very good cockerels and pullets growing nicely. You may want some of them. Advise me of your wants. I will be pleased to quote you prices on same for early fall delivery. Do not overlook the advantage of booking your order now. It means a reserved selection and mutual benefits.

Write for my instructive illustrated catalog. It has helped others and will undoubtedly help you.

JOHN G. POORMAN

Box 100

Tinley Park, Illinois, U. S. A.

Smith's Strain White Leghorns

Most Consistent Winners in America! Can furnish Exhibition Birds that will win for you or Utility Birds to improve egg-laying. Catalog free. Eugene Smith, 317 Galena Blvd., Aurora, Ill.

S. C. ANCONAS Barred Plymouth Rocks

I have a fine bunch of beautiful pullets and cockerels ready for the fall shows. Bred from our Chicago and Milwaukee winners. Also a few good utility hens and pullets. Catalog free.

CORA B. GARBUTT, Box 146, DARIEN, WIS.

Lady Beautiful Strain. Wonderful records have been established by my birds at Madison Square Garden, Philadelphia and Hagerstown. This record includes many first and other prizes. Eggs for hatching from these winners at reasonable prices. Now is the time to buy. Satisfaction guaranteed. Mention American Poultry Journal.

C. N. MYERS

Box E

HANOVER, PENNSYLVANIA

Rose and Single Comb

R.I. REDS

SPECKLED AND RED

SUSSEX

Do You Wish to Win?

Our February youngsters are wonderfully strong and large and *what quality* our Chicago Coliseum winners have produced. We invite you to visit us and see the wonderful color and type we have this year. If you cannot visit us, get our terms *before buying* which *saves you* from taking any risk whatsoever by mail. Our customers were among the big winners this season.

A. A. CARVER, Specialty Breeder

SEVILLE, OHIO

of harmony, unity and progress and that the desire to "get together" was so real and so well promoted. Harmony and co-operation were the watchwords and everyone seemed disposed to give suspicion and jealousy a decent burial.

This poultry business is your business and ours. We cannot accomplish anything worth while by fighting one another and such action can result in much harm. We can do a great deal of good for the industry, and for ourselves as individuals, by harmonious co-operation. If we do efficient team work, "One for All and All for One," we can accomplish much good, and by helping brother poultry breeders and fanciers will so help the whole poultry industry, and benefit ourselves as a matter of course.

★Red Star Brand★



Makes Hens Lay

Procure a supply at once and so insure having lots of high-priced eggs this winter.

Better and cheaper than other forms of animal food for poultry feeding. Averages above 50% protein—35% very soluble bone—2% fat.

Made From Fresh Fish Free From Oil

We use nothing but *fresh cod and haddock* in making this scrap. Consequently it is uniform—clean—sweet—appetizing. Unlike much commercial "beef scrap" which contains dead animals and other waste and is often dangerous and injurious.

Red Star Brand Fish Scrap has been used in the ration at all North American Laying Competitions where world's highest official laying records have been made.

Write the manufacturers today for samples and poultry book—FREE.

INTERNATIONAL GLUE CO.

12 T-Wharf

Boston, Mass.

S. C. Buff Leghorns

Chicago, St. Louis, Rochester, N. Y., and Milwaukee Winners. Send for prices to-day.

C. H. LEITNER R. F. D. 4, Box 8 ELGIN, ILL.



"REGAL QUEEN", FIRST BOSTON HEN, 1913

Let's all work to make an end to personal squabbles, to spiteful preferring of charges and to hateful jealousies. There is law in the land to punish wrong doing and, if we know of such, let's put the matter in the hands of the proper government authorities. Too much police work—particularly the ill-advised kind—is not good for a helpful, fraternal organization.

Cultivate the real fraternal spirit, boost effective co-operation in the whole field of poultry husbandry. A little love, faith, and trust in the honesty of human kind will do real good, where suspicion, jealousy, and harsh treatment may drive even a good man to wrong doing.

Get together! Do some real fraternal team work for the good of all. Forget your troubles, most of 'em never happen anyway.

Use a Typewriter.

USE a typewriter, Mr. Poultryman, you need one in your business. Do not say that you cannot afford one or that you cannot learn to use a machine. You can. You cannot afford to be without one. Any man, woman or child who can read and write, can quickly and easily learn to use a typewriter.

Prices on modern typewriters accommodate themselves to any purse. You can buy first-class new machines at prices that range from \$45 up to \$125. Second-hand machines, in good mechanical and workable condition, may be had from \$15 upward. Many machines can be purchased on the installment plan with a small first payment. If you write letters, you need a typewriter.

A typewritten letter is easily read and it commands immediate attention. Many publishers give preference to typewritten manuscripts and some require that all articles be typewritten. The pen-scribbled letter, or manuscript, is often very difficult to read, it leads to mistakes, and it suggests that you are drifting along far behind the times.

Be progressive and up-to-date. Nowadays it is more than ever necessary that every man and woman present a good appearance and be well dressed in order to make a success in life. Typewritten letters give your correspondence a well-dressed appearance, indicate that you are progressive and alive to modern methods of doing business. They secure for you

an immediate hearing, eliminate mistakes and misunderstandings, and saves the time of the person you address.

Once you begin to use a typewriter, you will not be bothered with scratching out illegible, pen-written scrawls. It is easy to learn to use a machine and even children in the lower primary grades learn quickly. If we were superintending a public school system, we should insist on introducing modern typewriters into the primary grades where children are learning to read, spell and write. We believe that the time will soon be here when no primary grade school will be complete without typewriting equipment and that the use of machines will be combined with hand writing thruout the school life of the children.

Get a typewriter. Use a typewriter. You owe it to yourself and to the success of your business.

Our Cover.

BLACK Orpingtons, when they are bred right and have the type and that beautiful green sheen which the Standard calls for, are a most handsome variety of fowls. The Foxhurst Farms of Lime Rock, Conn., have made a specialty of this variety for years and so well are their birds bred, that year after year they win highest honors at Madison Square Garden, New York. We take great pleasure in showing on the cover of our Magazine this month an unretouched picture of the 1st prize cockerel exhibited at the last show. The excellent type and beautiful sheen is very much in evidence in the picture. We handled this bird and looked him over very carefully and would say that he was a deserving winner in the large class exhibited. It further proves that when one variety of fowls is bred right and mated skilfully along scientific lines then the characteristics of the breed and strain become fixed to a certain extent and a larger percentage of the offspring will resemble the original ancestors more closely than if they were bred otherwise. Foxhurst Farm birds have a type that approaches very closely the Standard, and carry the plumage characteristics that give them an individuality that catches the judge's eye and generally makes him select Foxhurst birds for the pacemakers.—L. A. S.

BEAUTIFUL and USEFUL are REGAL WHITE WYANDOTTES

In the show room no strain has created more attention. At the great New York State Fair last fall my birds carried off the Manning Silver Trophy for the best ten birds in the show (9,300 exhibited). At the Hagerstown Show I was awarded the Hamilton Trophy for best bird in the show (6,000 on exhibition). Thus at these two great shows the only trophies open to all breeders were awarded to Regal White Wyandottes.

While I am proud of my winnings, I am prouder still of the grand utility qualities of my birds. They are wonderfully vigorous and my big January and February cockerels and pullets are a picture of sturdy health and beauty. Canadian winters are cold and it takes robust stock to produce good fertility and strong chicks in the winter months. By breeding from my best winter layers year after year, I have succeeded in getting a strain of birds that will give splendid results even under the most adverse conditions.

Think this over. White Wyandottes are very popular and very profitable, but if you wish to get the best possible results, does it not seem reasonable that it will pay you to start with the best strain of the breed? This fall I have the best lot of birds I ever offered.

5000 — Cocks, Hens, Cockerels and Pullets for Sale — 5000

SPECIAL—To make room for young stock I am offering during October 50 special value pens at \$25, \$35 and \$50; also 100 early hatched cockerels at \$10 each. In writing, state whether you want birds of exhibition or Dorcas breeding.

FREE—Send for catalog and sale list, giving description of several hundred breeders I am offering for sale. Send one dime for the Regal White Wyandotte Book, telling all about White Wyandottes.

JOHN S. MARTIN Box 51 PORT DOVER, CAN.

DR. WOODS' NOTES AND COMMENT

A little sun, a little rain,
A soft wind blowing from the west,
And woods and fields are sweet again,
And warmth within the mountain's breast.
A little love, a little trust,
A soft impulse, a sudden dream,
And life as dry as desert dust
Is fresher than a mountain stream.
—Stopford Brooke.

* * *

October! Busy month! Time to be making all things snug in winter quarters. We will get some fine warm weather yet, but make the most of it.

* * *

According to no less than a dozen poultry journals for September, at hand at this writing, the Cleveland Convention of the American Poultry Association was the most harmonious, most satisfactory, and most progressive that has been held in many years.

* * *

Arthur A. Peters, of Denver, Colorado, appears to be the favorite candidate for next president of the American Poultry Association. He has proved himself an honest, fair, able and dignified executive officer and he has fairly earned promotion to the presidency thru competent and creditable work and thru being the hardest worked presiding officer of the association for the past four conventions. Boost and work for Peters for the presidency.

* * *

Frank E. Hering, chairman of the American Poultry Association Committee on Government Co-operation, has started the work of this important committee with his usual promptness and characteristic activity. In a personal letter he says: "I believe that we should all emphasize the indisputable fact that the Federal Government is the greatest agency to promote poultry culture, and that it is to the interest of every man interested in poultry to see that the Federal Government and then his State Government does everything possible to advance poultry interests."

The U. S. Government already has a good start in effective and worth while poultry organization and it is unusually well equipped to do progressive work. The new American Poultry Association Committee on Co-operation is well chosen and the chairman is alive to the desirability and necessity of efficient co-operation on behalf of all poultry interests. We are pleased to quote the following excellent statement of purpose made by Chairman Hering in a letter dated September 1, 1916, addressed to Harry M. Lamson, Senior Animal Husbandman in Poultry Investigations of the U. S. Department of Agriculture: "I have before me a letter from our mutual friend, Dr. Woods, and I am writing him, enclosing a copy of this letter so that he may know that as chairman of this committee, I intend to do what I can as early as I can, and as completely as I can, to carry out the resolutions adopted at Cleveland."

We believe that it is the duty of every person interested in poultry culture to endeavor to co-operate with the National, State and Provincial Departments of Agriculture in all work for the promotion of pure-bred poultry interests, that all who undertake such co-operation will be benefited, and that much good can so be accomplished for better conditions in every branch of the poultry business. Lend a hand!

Never had so many good ones to sell as now
H. W. Halbach

Get the Best

WHETHER you want a show bird that can win, or breeders that can be depended upon to improve the quality of your flock, a prepotent sire or a prolific female, it will pay you to make your purchase where quality has been the watchword from the beginning—from the strain that has produced the most sensational winners in the big shows for years, from the breeder who can and will give you the best values. In

White Plym. Rocks
You Can't Beat Halbach's

The unparalleled win of my birds at the great Coliseum, Chicago Show, December 13-18, 1915, was the final link to the chain of victories that has given them the undisputed championship.

1-2-3 Cock

1-2-3-4-5 Pullet

1-2-3-5 Hen

2-3-4 Cockerel

1-3 Young Pen

1-2 Old Pen

ALL CHAMPIONSHIPS

In the opinion of experts from every section of the country there never has been shown to date a string of White Rocks that so nearly approached the highest ideals of the breed. And every individual was bred on my farm—is the product of years of careful breeding—represents bred-in quality; not accidental quality. It is in the blood. You who buy of me may possess it—and it will be reproduced. I have hundreds of birds of superlative merit, closely related or directly descended from my great champions. Any one of them will breed the quality you seek. Every one of them is vigorous, active, prepotent. Everyone of them is worth many times the price I ask for them as individuals for their breeding value alone. My thousands of satisfied patrons the world over are proof that my birds make good—invariably—in show room or breeding yard. And when I say to you that never in all my years of experience have I had so many good ones to sell as now, it means that Halbach's guarantee of satisfaction signifies more to you this year than ever before.

Write Me for Show Birds or Breeders, I'll Please You



Without exception my personal attention is given to every order. Whether you buy the lowest priced bird on my place or an outstanding exhibition specimen, it is my honest endeavor to fill your order just as I should wish to have one of mine filled by you. And every time, if what I send is not satisfactory in full measure, my customer may return it and get his money back. Write me today for what you desire to obtain. Make up your mind to own White Rocks from the real Champion Strain and you can win. Large catalog, 20 cents.

H. W. HALBACH

R. 1, Dept. H

Waterford, Wisconsin

Altho we have been in close correspondence with him more than a year, we had not met and gripped hands with Robert G. Bailey, of Lewiston, Idaho, until the Cleveland Convention. Bailey is a Virginian, transplanted to an Idaho ranch, and he stacks up every inch a man and true blue. We enjoyed an interesting visit with him on the moonlight lake trip and are frank to say that he improves with better acquaintance. From his good and efficient work on the floor of the convention we believe that he is a man that the American Poultry Association will do well to cultivate and to elect to office when opportunity offers. The organization needs all such honest and fearless men, who can and will "speak out in meetin'."

* * *

Have you stored away the small potatoes, cull apples and waste vegetables to be used as winter vegetable food for your flocks? If not, it is time to get busy. Grain will, in all probability, rule high in price, plenty of vegetable food is not only good for the birds, but it helps to cut down the grain bill.

* * *

This month is "last call" for fixing leaky roofs and repairing poultry quarters to put same into good condition to resist the storms of the coming winter. Get busy!

* * *

Remember that when birds are first housed and yarded in the fall, after running on range, that a liberal supply of fresh succulent greens daily is doubly important. Feed plenty of greens and vegetables. Do not feed frosted or frozen vegetable food.

On cool frosty evenings a full feed of corn, whole or cracked, just a short while before roosting time will be relished by the fowls and will help toward better results. Send the birds to bed with full crops. A small percentage of old process linseed meal—not over ten per cent—in the mash and about five per cent sunflower seed added to the scratch grain will help the moulting birds to finish feathering quickly and in better condition. Feed sufficient meat food, plenty of greens and keep the birds well fed. Cabbage is a fine fall food until there is danger of the cabbage freezing before eaten.

* * *

Eastern growers report a fine clover crop and good, green, well-cured cut clover is being offered at attractive prices for poultry feeding. Good cut-clover is a fine winter food for addition to mashes either dry or moist.

* * *

Do not have litter too deep in the scratching pens. Deep litter is wasteful, gets badly fouled before it is changed, attracts dampness and is liable to become mouldy and thus a menace to health. Better use light, dry, shallow litter, just enough to keep the birds scratching, and change it as often as necessary. Clean, bright, dry litter that is quickly broken up is much to be preferred to deep, soggy, damp litter that quickly becomes foul, musty and mouldy.

* * *

Clean nests, clean eggs. Foul nests, dirty eggs. Keep the nests clean. Use only sweet clean nesting material and renew it often.

Theo. Hewes says: "In the many conventions I have attended (more than twenty all told) there was undoubtedly a better general feeling (at Cleveland) among the members and a disposition on the part of every individual, whether on the Executive Board or representing only his own individual vote, of getting together and of doing something for the poultry business, of believing in his own honesty and having absolute faith in the other man. The key note speech of Mr. Hering brought out this point stronger than all else: that as men and women we are honest, and we believe in the honesty of others. The character-destroying, one-sided evidence which has been filling the press for the past sixteen months was greatly deplored, and the breeders of the United States and Canada are a unit in their opinion that it is time for this nonsense to stop."

* * *

There are several candidates in the field for the office of secretary of the American Poultry Association. However, the present secretary, S. T. Campbell, stands for re-election on his record as an efficient officer and one of the best organizers that the American Poultry Association has had. We believe that he has sufficient strength with the members to be returned to office by a handsome majority.

* * *

See that all buildings are well cleaned and disinfected and get the young stock properly housed while warm days and good weather last. Provide roosts for young and old stock and see that the birds use them. Do not permit sleeping on the floor on cold frosty nights.

Aldrich White Orpingtons ARE NATIONAL CHAMPIONS



First Cock, Chicago Coliseum, 1915

rooms but lay as large a number of eggs during the year as any variety bred for egg production only. Why not take this fact into consideration and purchase your foundation stock from the strain that is **bred to lay as well as to win** when you can obtain it at prices no greater than those asked by any reliable breeder who sells stock bred only for egg production and not good enough for show.

If you want the most beautiful, hardiest and quickest growing variety of fowl, try the **White Orpingtons** and send for our beautiful catalog and let us quote you prices. It is free if you mention American Poultry Journal.

High Egg Production and Show Qualities Combined

We have perfected our strain until customers may now expect birds that will not only **win in the show**

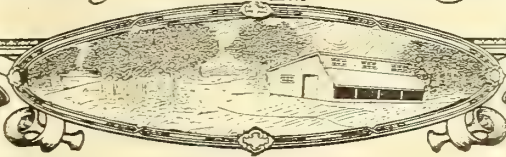


First Cockerel, Coliseum, 1915

ALDRICH POULTRY FARM
5080 N. High Street Columbus, Ohio

Horticulture for Poultry Keepers

Conducted by Thos. F. Rigg, Iowa Falls, Iowa.



OCTOBER is a glorious month out in the open. There is much to do in the garden and with the fruit producing bushes. This getting ready for winter is rare sport for those who love horticultural work.

The currant and gooseberry cuttings should be planted this month where the planting was not done in September as it should have been. Follow the directions given in the September AMERICAN POULTRY JOURNAL and you will have full measure of success.

This is the ideal time to plant the peony and many other hardy flower plants, as well as shrubs. The peony roots should be planted so that the upper eyes are about two to three inches

beneath the surface of the soil, with the plants about three and one-half feet apart. The newly set plants should have a little straw or litter placed on them when the weather is fairly set in for winter, *but not before*.

Fall is the ideal time for the planting of hardy fruits in all sections where the winter is not too severe. Here in the mid-west it is not well to plant fruit trees at this time of year, but currant and gooseberries are best planted in October and November. I have planted yearly grapevines in a small way, with entire success, but would not advise the planting of a commercial vineyard in the fall.

The fruit tree trunks are being

brushed and cleaned now and as soon as the trees are dormant they will be given the regular fall spraying, with scalecide. We get the destructive insects by so doing and what few escape are caught by the spring dormant spraying.

* * *

I take great pleasure in presenting to the readers of the AMERICAN POULTRY JOURNAL the likeness of the man who has done more to promote the interest of fruit raising in the Northwest than any other man—Charles G. Patten, of Charles City, Iowa. Mr. Patten was a farm boy in Northern New York, reared in the general mixed husbandry of that region. At an early age he went to Wisconsin. He was impressed with the need of apples for that section and began to raise seedlings. In 1864, he removed to Charles City, Iowa, out on the broad, unplanted and but thinly settled prairie, with no trees or shrubs within miles, except the meagre growth along the few streams. Mr. Patten maintained from the first that the wide prairie region with its exceedingly cold winters could never secure the best hardy apples and other fruits except by the planting of seeds of the hardy Russian sorts or seeds of any other hardy kinds. In 1861 he began to advocate publicly the breeding of hardy fruits along this line. It was uphill business for this enthusiast, but he kept on with his work. His foresight has been vindicated, for it is now accepted that in regions demanding unusual qual-

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NOW



4th Cock, Boston, 1916

Are you confident of a handy win at your show this season? If not, why not get in touch with me. I have hundreds of youngsters that I must sell this season.

I CHALLENGE

any, and all breeders to give better values than I can and will give you. I am breeding Leghorns as a hobby and because of the personal satisfaction that I get from handling the best. I sell all but a very few of my season's production and sell with a view to my customer's satisfaction and future trade.

I Ask You Not To

place your entire order with me this season but to place merely a part with me and a part with some other breeder. Compare the RESULTS you obtain. Be your own judge as to where to come in the future. I take pleasure in backing my values against the world and do so with utter confidence of your satisfaction and future orders.



3d Hen, Boston, 1916

I have plenty of young stock sufficiently matured to enable me to back my values with assurance to you of your complete satisfaction.

If you plan purchasing now or later,

Now Is the Time

for you to plan your order for either immediate or future delivery. Get in communication with me at once and please state the class of stock you may require. Give me a chance this season and you will return in future without being urged.

WRITE

NOW!

**WILLOW
TREE POULTRY FARM**

Beverly Farms,
Mass.

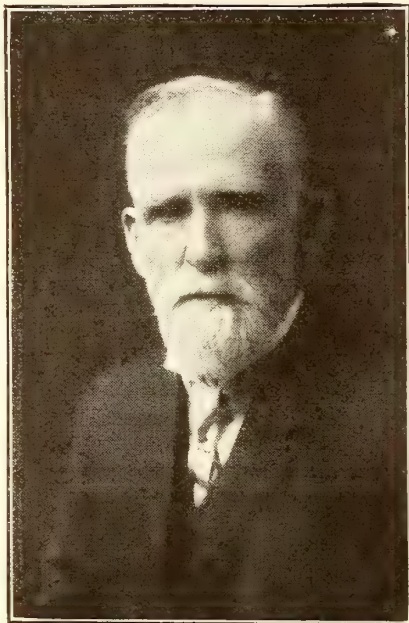
H. P.
McKean, Jr.

H. P.
McKean, Jr.

ities in fruit trees or other plants, strains or races must be developed natively in the region itself.

The winter of 1872-73 virtually annihilated the nursery stock and all fruit trees in the prairie section of Iowa and Minnesota. As Prof. H. L. Baily said: "Mr. Patten then saw clearly the vision of a new horticulture for the cold prairie country and knew he had a work to perform."

He began a systematic crossing of apple and incidentally pear, plum and



CHAS. G. PATTEN.

Plant breeder and originator of apples which have solved the problem of apple production for the Prairie State and the extreme Northwest.

other fruits. For years he has carried on this work, developing several apples which are now accepted and proved to be of great worth to this section. In 1869, Mr. Patten secured seed of the Duchess of Oldenburg from Wisconsin. One of the resulting seedlings is what is now known as Patten's Greening, a greenish, yellow apple, keeping in Iowa and Minnesota until March. It is now a recognized standard for the prairie country, and has made apple growing possible far to the north. There is also the Iowa Brilliant, a beautiful apple of high quality and hardy in tree. It is a seedling of Fameuse. Also the Eastman, hardy and of high quality, and the seedling of Fameuse. Silas Wilson, and cross of Ben Davis and Jonathan is extremely hardy, as is also Iowa Beauty, a seedling of Golden Russet. Summer Pear is the best apple of its season here. It is a seedling of the Duchess.

At the present time Mr. Patten has more than 20,000 seedlings growing on his place near Charles City. Most people would have named and introduced many of these novelties years ago, but Mr. Patten has been very cautious and has never introduced a fruit until it had been thoroughly tested and proved to be of exceptional merit.

Mr. Patten is now in his eighty-second year. He has given to the world something of great and lasting value. His son, E. C. Patten, is thoroughly interested in the great work carried on by the grand old man, and will see to it that nothing of worth thus created is lost.

High Record Bred LEGHORN COCKERELS

Pure Bred American Stock THE LORD FARMS' STRAIN

(The Genuine Goods)

For years we have been gradually adjusting our farm and methods to the production of a heavier laying strain of S. C. W. Leghorns. We have tried out all systems and the only one that is dependable is to trap-nest every bird 365 days in the year. This we have now accomplished at great expense, and are now able to offer our fall crop of cockerels, all bred from high producing hens that were mated to cocks and cockerels bred from extra high producing females. These birds will cost you

**\$5.00 to
\$15.00 each**

Don't expect to get genuine high record bred birds at any lower prices. No breeder can offer the real goods at less prices and get by.

We have never made a business of selling our highest record females,—money cannot buy them, and for several years to come we shall not have hens for sale with records of 200 eggs or better. That's the reason that today we can offer genuine high record bred males, and next spring we shall be able to furnish you with eggs from 200 egg stock or better from hens that have honestly made the records we claim for them.

Besides striving for larger egg production, our strain has been steadily improved in size, good color of plumage, and shape, and special effort has been made during the past six years to improve the size and color of the eggs.

We are one of the largest producers of W. Leghorns in the U. S. and have enthusiastic customers in every state in the Union.

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WINNERS

HIGHEST BREEDERS IN AMERICA

CONTEST WYANDOTTES—283, 282, 274, 266

WORLD RECORD BIRD—a Leghorn—288

BUFF ROCKS—240, 272, 265, 263

S. C. REDS—243. Catalog.

MORRIS FARM, Route 4, Bridgeport, Conn.

All breeders tested; free of white diarrhea.

Here is a gem from the pen of Henry Collingwood of the *Rural New Yorker*:
Give me the power to put running hot and cold water with proper fixtures in every farmhouse, roses in the dooryard and vines and flowers on every house, and I will quickly settle the big trouble and problems, because these things will lead to that broader charity and true understanding which we must all have before we can "get together" to right our wrongs.

* * *

For two years my garden has been destroyed by some insect eating the plants off at the ground. They are especially destructive to my tomatoes and beans, killing nearly the entire crop. I find little striped spiders in the ground, and the ants, all kinds, are dreadful this year, so it must be either of these doing the damage. I have searched magazines and horticultural books for information, but have failed to find any. We are new subscribers to the American Poultry Journal and all well pleased.

Texas.

Mrs. W. K. Danley.

I do not know the name of the insect that is playing havoc in the garden of Mrs. Danley. In all my years of gardening, I have never had such an experience. The fact that ants are present at the base of the plants is conclusive evidence that the work is being done by an insect which the ants are feeding upon. Ants carry aphids into trees and then milk the aphids. I think that is what they are doing in this case. But the question before Mrs. Danley is, what will prevent the damage? I cannot tell. Last spring I set out four rows of strawberry plants on ground which had been heavily manured with stable litter for years. I knew I would have trouble with the white grub. So I tried an experiment. I made a mixture of sulfocide and water—two gallons of water and one pint of sulfocide. I poured this along three rows of the plants, close up to the plants. I did this three times during the season about two weeks apart. Not a plant was injured in these three rows, while in the untreated row nearly all the plants were destroyed by the grub. I do not know that my correspondent can rid her garden of the troublesome pest by this same process, but I advise her to try it.

* * *

Ralph Peters, Homestead, Florida, asks for the post office address of Dr. G. C. Miller, of Iowa. I have misplaced Dr. Miller's address. Will he please communicate with Mr. Peters?

* * *

J. H. Yearsley, Idaho, writes:

Sprayed the lawn with sulphate of iron, two pounds to the gallon of water, to kill dandelions and not injure the grass. I have cleaned my lawn out twice, but the wind and irrigation water re-seeds the dandelions and it is necessary to spray about three times a year. Spray when there is no rain.

* * *

Unless all past experience means nothing, the apple crop in the mid-west in 1917 will be light. This season, following the wet summer of 1915, the trees bloomed full and the crop would have been big had it not been for the exceedingly dry weather. Inasmuch as the trees did not this season get sufficient moisture in July and August when the buds for 1917 apples were forming, the trees will carry but few fruit buds into winter quarters.

* * *

Being a reader of American Poultry Journal, especially the horticultural department for poultry keepers, would like to ask a favor in regard to spraying. I am inexperienced and starting this spring to go in fruit and poultry raising. I set out 100 peach and 100 cherry trees and they are showing up fine and strong. Would like to know if I should spray for prevention of scale, what to use and when to spray and how often.

Illinois.

F. J. Krigshauser.

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Red
Sussex



Light
Sussex

"The Colder the Day the Better They Lay"
America's foremost winners at Madison Square Garden, Chicago Coliseum, Pittsburg and Buffalo.

Won at N. Y. State Fair, Sept. 11-16, '16

Red Sussex—1st, 3d cock; 1st, 2d hen; 1st and 2d cockerel; 1st, 2d and 3d pullet; best display.
Light Sussex—1st cock; 1st and 2d hen; 1st, 2d and 3d ckrl.; 1st, 2d and 3d pullet; best display.

February, March and April hatched birds are up to size; bred from Madison Square Garden and Chicago Coliseum winners and without doubt the finest ever produced.

**Bargains in Trios at \$10.00 and
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Exhibition stock that can win anywhere, at reduced prices. Must make room for May and June hatched chicks. Let us quote you on your needs. Get the best at the best price.

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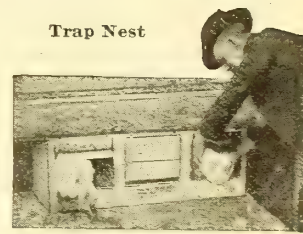
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C. C. MOONEY, Cooper, Iowa.
The free folder tells all about this great insecticide and disinfectant. Write today. Bottle 50c; 3 for \$1.25, post paid in the United States.

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Choice winners for any show in the world. Breeders of the same quality. You'll be pleased if you invest with Nixon. A quarter century experience.

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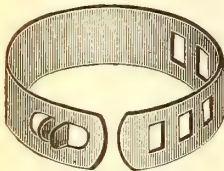
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ASTLE'S QUALITY BUFF PLYM. ROCKS win 1-2 Cockerel; 1-2 Pullet; 1 Pen Kankakee Inter-State Fair, Sept. 4 to 9. Winners at Chicago, Springfield, Fort Wayne and others. 400 birds for sale reasonable. Write me your wants. Mention Am. Poultry Journal. MILAN C. ASTLE Box A MOMENCE, ILLINOIS

Mr. Krigshauser's letter supplies a text for a sermon and one which I feel like giving my readers. I believe firmly that the dormant fall and spring spraying of fruit is of vital importance and that the failure of fruit growers to so spray is responsible for a very large share of the loss of fruit and damage to trees. Of the two dormant sprays, I have proven that the fall application is the more important. Not only the scale, but the Aphis is in condition in the fall to be successfully attacked. For years I used lime sulphur and had but little success. A few years ago I began using Scalecide and have accomplished more in one year with this remedy than I did in all the years when using lime sulphur. Scalecide being of an oily nature will crawl down into the rough places in the bark of old apple and pear trees, killing the scab fungi, which hibernates on the latter and the spores of canker, etc., on the former, even going beneath the dead bark, where lime sulphur cannot possibly reach. It cleans the tree of all scale and Aphis. Then we give the trees another dose in the spring, when dormant, and we get the few insects we missed in the fall. By all means do not neglect these two most important sprays.

* * *

I am a subscriber to the American Poultry Journal and am an interested reader of your department. I noticed in the August issue that you use Black Leaf 40 for Aphis. Will you please tell me just what it is and where to get it or how to make it? My apple trees which I planted last fall are suffering from Aphis, as are some young chestnut trees. Have used whale oil soap, but when I get it strong enough to kill the Aphis, it turns the leaves yellow and dries them up.

Is poultry manure good for young trees? I dug about one-third of a bucket of fresh manure around each young tree this spring. Would more have hurt them and would you advise using litter cleaned from the floor instead of clear manure. Would it not be a good idea to mulch them this fall with litter and dig it in next spring? I have about forty trees: apple, peach, pear, plum, cherry and nut trees.

S. H. Boynton.

Black Leaf 40 is a nicotine preparation and can be bought of any seedman or dealer in fruit growers' supplies. It is an effectual remedy for ridding trees and vines of Aphis when trees and vines are in leaf. The spray is made up of 1 pint Black Leaf 40 and 100 gallons of water. If a pound of soap, any laundry soap, is boiled in water and added to the mixture it will adhere to the foliage better.

Yes, poultry manure is good for young fruit trees, if properly applied. The amount Mr. Boynton placed around each tree was surely plenty. I would not want to use more per tree. I would advise you to mulch the trees with straw or very coarse stable manure this fall. If you use the straw from the hen house floor you are very liable to get a much hen manure with it. Such mulching of young trees is extremely dangerous. Scatter a little of the hen manure around each tree next spring and spade all in well.

* * *

This year the grapes stood still during the extreme hot weather. As a result a large portion of the very late varieties failed to fully ripen.

* * *

Along one side of the field given over to my poultry is a patch of elderberry bushes about 300x50 feet. These bushes are now loaded with ripe berries which fall to the ground and are eaten by the fowls and young stock. The field is fairly alive with birds who are very fond of the berries.

An important fact about

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is the big savings they have made for shippers of all kinds of goods, in preventing damage and loss.

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More Comfortable, Healthful, Convenient

Eliminates the out-door privy, open vault and cess-pool, which are breeding places for germs. Have a warm, sanitary, odorless toilet right in your house. No going out in cold weather. A boon to invalids. Endorsed by State Boards of Health.

ABSOLUTELY ODORLESS

Put It Anywhere In The House The germs are killed by a chemical process in water in the container, which you empty once a month. Absolutely no odor. No more trouble to empty than ashes. Closet absolutely guaranteed. Write for full description and price.

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Ask about the Ro-San Washstand—Hot and Cold Running Water Without Plumbing

Poultry Fence



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Made of Open Hearth heavily galvanized steel wire. Strong, durable, closely woven. Requires fewer posts no base board or top rail. Not a flimsy netting but a Poultry Fence. Sold direct to user. Write for free Catalog showing many styles of Poultry, Farm, Lawn Fence and Metal fence posts.

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Planet Jr Garden Tools

This No. 4 Planet Jr combined Hill and Drill Seeder, Wheel Hoe, Cultivator, and Plow includes practically every tool needed to plant and cultivate a large or small garden. Can be used by man, woman, or boy. Costs little. Lasts a lifetime. New 72-page Catalog (184 illustrations) free. Write postcard for it.

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OHIO MARBLE COMPANY
10 S. Cleveland St., Lima, Ohio

A pair of red squirrels had a nest in an oak tree just over the line of our property. The other day I noticed the mother squirrel coming down the tree with a baby squirrel in her mouth. She was holding the little one by the back of its neck. She came on a five foot woven wire fence, across a five-acre field, and into a very large tree standing but a few feet from our back door. Having deposited her baby in a new nest far up in this tree, she returned to the old nest, and was soon back again with another youngster. She thus carried four little squirrels to the new nest. I was curious to learn, if possible, why she was thus changing her abiding place. I found the old nest was nearly destroyed, but in what manner or by what agency I do not know. The little fellows are now out of the nest and playing in the tree. The mother is much worried because of the presence of our angora cats, and spends much time scolding them.

I would like to see the 1917 meeting of the American Poultry Association held at Asheville, N. C. But it won't go there. The American Poultry Association, unlike all other live stock associations, considers it a duty to go any old place with its annual meeting where there is a probability of getting the largest number of new members.

Just now the fruit journals are giving much space to the discussion of soil moisture and annual bearing of apple trees. It is an important matter, and one well worth the attention and thoughtful consideration of all apple growers. An Eastern orchardist wrote to the *Rural New Yorker* that his Baldwins had a big crop in 1915 and was carrying a large crop this year. He was surprised because his Baldwin trees heretofore had yielded fruit only every other year. He asked if the cause of this year's crop could be the heavy rains of last season. To this Prof. J. F. Littooy, of Idaho, replied as follows:

On page 916 I was interested in what is said about the biennial bearing habits of Baldwins and your surprise at its bearing this year again, or two years in succession. Prof. James E. Rice thought that it was due to the ample moisture conditions of the previous summer. You ask if in the irrigated sections of the West the same results are obtained. Also you are inclined to the opinion that a wet season is likely to drive the trees into a wood growth.

Having had experience in both the irrigated and non-irrigated sections of the West and watching the habits of orchards under both conditions I would unhesitatingly say that the opinion of Prof. Rice is the correct one. Most of the commercial varieties in this irrigated section (Southern Idaho) bear annually. Considering the same variety some orchards bear annually and some do not, and when the conditions as to such fluctuations are investigated it is found that if the proper moisture conditions were lacking the previous season that fruit buds are also lacking.

In this arid section the available plant food has not been leached out by rains, as is the case in the humid sections; then with the heat and dry atmospheric conditions of the arid sections the tendency of plant life is greater fecundity. The heavy bearing of the fruit trees is abnormal, and the extreme thinning of fruit from the trees is essential to the best quality of fruit and vitality of the tree. A great vegetative growth and heavy bearing of fruit are not co-ordinate, as the conditions which encourage each are the extreme of each other. Hence when the tree is heavily laden with fruit its vitality is taxed and extreme vegetative growth will not follow as a result of ample irrigation. The prune tree, as an example, when mature, will make, practically, no growth the year it is in heavy bearing and regardless of the amount of moisture applied, and this is a tree that bears annually here.

The White Winter Pearmain growing here has the tendency to biennial bearing, unless the moisture conditions are watched very cautiously, and when it does bear it overdoes



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First and Second Cock	First and Second Hen
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First Pen of Fowls	First Pen of Chicks
Champion Cockerel	Champion Pullet

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First and Second Cock	First and Third Hen
First, 2d and 3d Ckrl.	First Pullet
First, Second and Third Pen	

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remember I have several thousand to select from. All farm reared, carrying blood lines and vitality that no other breeder can give you. Write me your wants, please.

Eggs for Hatching

Baby Chicks

U. R. FISHEL

Box A

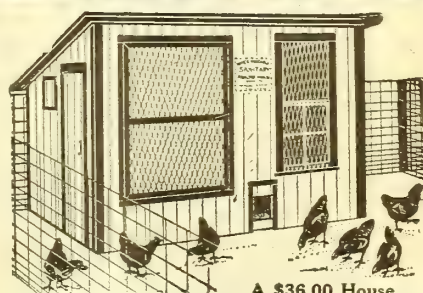
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No. 19, Style "A," 6-foot 3-perch, complete Potter hennerly outfit for 36 hens. This same style made in 12 sizes.



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No. 5, Style "D," Potter portable open front fresh air, scratch shed house, equipped with No. 17, Style "A," 5-foot 3-perch complete hennerly outfit for 30 hens. Price of complete house, \$36.00.

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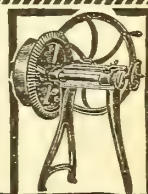
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FOR
15 DAYS



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Winners

Madison Sq., 1916

My Rose Comb Brown pullets of 1915 breeding were never beaten, winning firsts and seconds in Allentown, Philadelphia and Madison Square. Also first and

second hens. Eight firsts by customers in Canada. Sons of these winners \$15 to \$25. Utility line, 242 to 256 records, \$1.50 up. They won an egg contest in western Canada.

S. C. Browns—266 egg line. The greatest egg line and ckrls. out of 1st Palace pullet, 1914.

S. C. Whites—288 egg line cockerels, 1 or 100. Also hens. A great chance.

R. C. Whites—244 egg line. Winners. All my Leghorns good size and lay large eggs.

S. C. Reds—248 egg line. Extra fine.

Barred Rocks—270 egg line. Extra lot.

W. Wyandottes—228 egg line.

Fair treatment. Send for catalog.

W. W. KULP

Box 70

Pottstown, Pa.

Speckled Sussex

I will have cockerels and pullets fully matured and in show condition any time after July. Also have some stock to sell bred from first prize pullet, at Quincy, that has laid 150 eggs in 159 days.

CHAS. A. SIMMONDS

CAMP POINT . . . ILLINOIS



COLORLED LEG BANDS

Big Black Figures on White Background

3c each; \$2.50 per 100. All colors; all sizes, for all fowls, and pigeons. Baby chick bands not numbered. Leaders in visibility; durable, efficient, time savers. Their high reputation bears testimony to their merit. The perfect colored band. Can you afford to use any other? 2c stamp for samples and catalog showing several other styles. A. P. SPILLER, Dept. A, Beverly, Mass.

BUTTERCUPS

BIG SALE OF FINE STOCK

Both young and old. The greatest layers of large white eggs. Birds of wonderful beauty.

Tiffin Poultry Farms and Hatchery
Department A, Tiffin, Ohio

Large, Great Layers, Pure White,

LAYBILT "Made in America" LE GHORNS

Choice cock birds, hens, cockerels and pullets offered now. Reasonable Prices.

EVERFRESH EGG FARM - Box A - IONIA, MICH.

Buff Orpingtons

Write for prices on young and old stock that will win at your State Fair.

O. M. ABBOTT Box 10 WHITELAND, IND.

S. C. BLACK MINORCAS

that have size and quality. Winning three successive years at Quincy show. Stock for sale this fall. Write for prices. Mention American Poultry Journal.

GROVER DEEGE 814 Jefferson St. QUINCY, ILLINOIS

COCKERELS and PULLETS from the blue ribbon pullet at Boston, 1916.

BARRED PLYM. ROCKS **S. C. REDS**

BEAR BROOK POULTRY FARM **WAKEFIELD, MASS.**

S. C. WHITE LE GHORNS

Trapnested. Egg record 265 in one year. Cockerels from hens with egg record of 200 to 265, \$3.00 to \$10.00 each. **CARL J. JENSEN**, North Ave., WAUKEGAN, ILL.

itself and if at this time the soil does not receive ample moisture to develop the fruit crop properly the bud development also suffers.

Another thought. Your trees could not make an excessive wood growth in a sod-bound soil the same year it bears a full crop, and hence the ample rains favored fruit bud development and better fruit at the same time.

Note carefully the last sentence in Prof. Littooy's letter. It is the meat in the cocoanut.

* * *

In this section farmers are rushing the old hens to market. The price of all grains will be exceedingly high here this winter and the farmers are unloading more poultry than usual. Town people who have kept a few hens for years are giving up their poultry. Egg prices are bound to rule high.

* * *

In answer to S. T. Worth: I do not believe that King David apple trees are hardy enough to withstand the winters in Howard County, Iowa. If you will top-work the Duchess, on Hibernal or Tolman's Sweet, to King David, you can grow this fine apple on your grounds.

My experience with the Perfection Currant is that it will not endure our extremely hot summer and that it does not bear heavy enough to warrant its planting in a commercial way. I advise you to plant Red Cross and Diploma. They are entirely suited to your climate and will give you an abundance of extra large berries.

Care and Growth of Rose Comb White Leghorns

(Continued from Page 1123)

pan. They were provided, at all times, with fine grit and fresh water and after the first few days had constant access to a dry mash made as follows:

- 2 lbs. cornmeal,
- 2 lbs. bran,
- 2 lbs. shorts,
- 2 lbs. good clean sweet beef scrap,
- ½ lb. charcoal.

When one week old they were fed five times daily in addition to the above dry mash and when three weeks old were fed three times a day the following mixture:

- 2 lbs. corn chop,
- 2 lbs. cracked wheat,
- 2 lbs. cracked kafir.

This was fed in the litter. When the chicks were four weeks old they averaged six ounces each and were placed in a large coop with plenty of range. At eight weeks old, the cockerels weighed one and one-half pounds and the pullets one and one-fourth pounds. At three months, they weighed two and one-fourth to two and one-half pounds and from that time on they were given absolutely free range and were such good rustlers they did not require much grain, only at night feeding time.

Black Langshans

Choice Stock at Real Bargains.

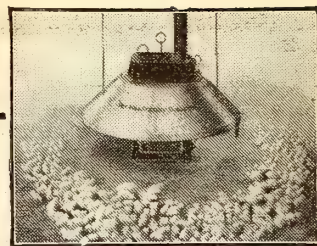
M. S. BARKER

Rural Free Delivery 1

Thorntown, Ind.



The "Best Yet" Aluminum Leg Band. Cannot come off. 5 sizes, pigeon to turkey. State breed 12, 15c; 25, 20c; 50, 35c; 100, 60c. No stamps. Also colored leg bands and seamless pigeon bands. Circular free. Aluminum Marker Works, Dept. J, Beaver Falls, Pa.



Poultrymen!

Are you satisfied with your brooding system?

Are you looking for more profit?

If so, our booklet describing the Hill Colony and Magic brooders together with plans how to build colony and laying houses will help you to succeed. Will send it free, postpaid. We desire to start the beginner right and help every poultry raiser who lacks success. Now is the time to plan poultry houses for next season. Address,

UNITED BROODER COMPANY

360 Pennington Ave. Phone 558 Trenton, N. J.

Treat yourself to a pen of
Pape's Single Comb

Black Minorcas

They simplify the whole problem of good living at a moderate cost. They are the acknowledged blue and special ribbon winners, and are marvelous producers of large white eggs—as a table fowl they are delicious.

Am offering show birds that will win anywhere; cockerels that will improve any flock and that will develop into prize winning cock birds; pens and hens in laying condition at introductory prices. You are bound to succeed if you advise with us. All stock sold on approval. Write today.



CHARLES G. PAPE

25 Years a Specialist.

Box B-74 Fort Wayne, Ind.

High Yielding
Egg Strain

Buff Wyandottes White Leghorns

Bred for large egg yield; handsome stock, winners at Madison Garden and Boston shows. Best Winter laying hen at fourth Storrs' Egg Contest, 246 egg record at third Storrs' Contest. Maturing pullets and cockerels now ready to ship, for breeding, winning, and laying! Circular for asking.

DR. N. W. SANBORN

924 South Road Holden, Mass.

BELLA VISTA

S. C. White Leghorns

We won two firsts, second and third at Purdue University Egg Show. We breed for layers of many choice table eggs. Can spare 500 pullets and yearling hens, and cockerels at \$2.00 each. Circular free. Correspondence solicited. Address

BELLA VISTA FARM - KIMMSWICK, MISSOURI

Reference: Bank of Kimmswick.

Ward's Champion Buff Plym. Rocks

I will offer a big bargain in yearling hens, if taken at once, only \$3.00 each.

R. W. WARD The Buff Rock Man **NORMAL, ILL.**

WOOD'S BUFF ORPINGTONS

WHITE HOLLAND TURKEYS, EMBDEN GESE
Large type exclusively. State Fair winners. Describe your wants. Honest goods at honest prices.

H. M. WOODS **R. F. D. 1** **CARLINVILLE, ILL.**

Not the best in the world, but as good as the rest. These low prices, just to get you acquainted with my

S. C. ANCONAS WHITE WYANDOTTES

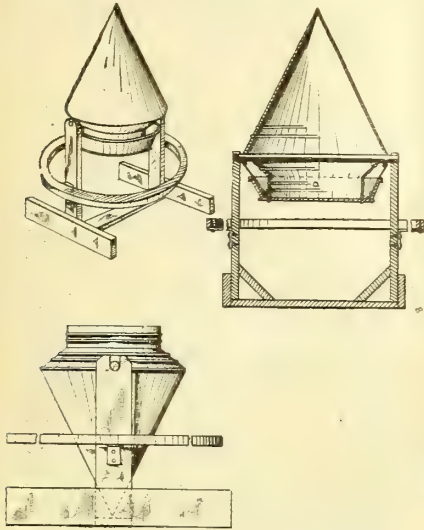
Cockerels, \$2.25 to \$7.50. Pullets, \$2.00 to \$6.00.

LONE OAKS POULTRY YARDS **E. B. PECK** **BATAVIA, N. Y.**

Recent Inventions for Poultrymen

By Lester L. Sargent, Patent Attorney, Washington, D.C.

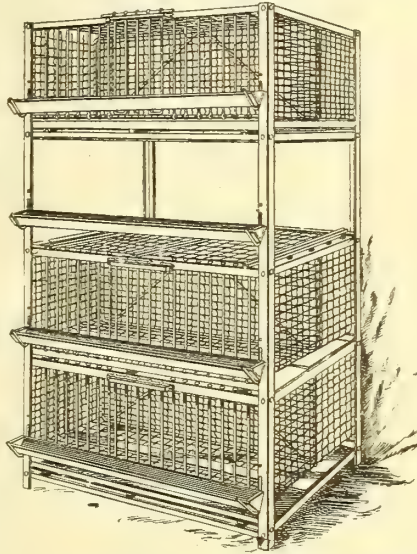
A POULTRY Water-Fountain arranged so the fowls cannot step in it or scatter litter in it has been devised by Edwin A. Collis, Viola, Delaware. The fountain is shaped like an inverted top suspended from a frame which is en-



Poultry Water Fountain, patented by Edwin A. Collis, Viola, Del. Patent No. 1,195,443.

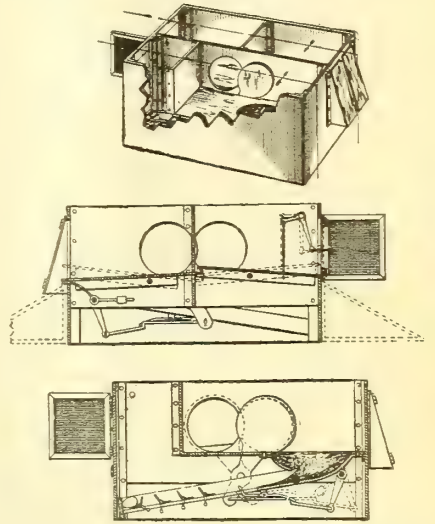
circled by a ring on which the poultry may roost to drink. The conical shape of the container prevents the poultry from roosting on the fountain itself. The fountain can be readily inverted to fill it, as it is pivotally suspended. Patent No. 1,195,443.

A Chicken-Feeding Coop invented by George Collis and patented to the Collis Company, of Clinton, Iowa, is of the sectional variety and designed especially for housing "milk-fed" chickens. A number of cage structures are provided, all alike, and each having an individual trough, roosting board, cross-pieces and bracing members. The device is made almost entirely of metal. The different cages are spaced apart, and the cages being of woven wire, permit free passage of air. Patent No. 1,192,867.



Chicken Feeding Coop, invented by George Collis and patented to the Collis Company, of Clinton, Iowa. Patent No. 1,192,867.

A Trap Nest that both traps the hen and traps the egg when laid, has been invented by Benjamin F. Sigler, Locke, New York. When the egg is laid it rolls down an incline opening out of the bottom of the nest, and trips a latch as



Trap Nest, patented by Benjamin F. Sigler, Locke, New York. Patent No. 1,194,432.

it rolls down. The latch being released allows a weighted lever to drop, and as the weighted lever is operatively connected with a pivoted gate theretofore closing the exit opening, the gate is tilted over so as to close the entrance opening instead and force the hen to leave by another route from that by which she

This Equipment Will Increase Your Profits

Right now, when you are putting your layers in winter quarters, you should equip your plant with these time-saving, money-making appliances. Continue the favorable conditions your birds enjoyed on free range. Keep them busy, well-fed and watered, contented. The

Norwich Automatic Exerciser and Feeder

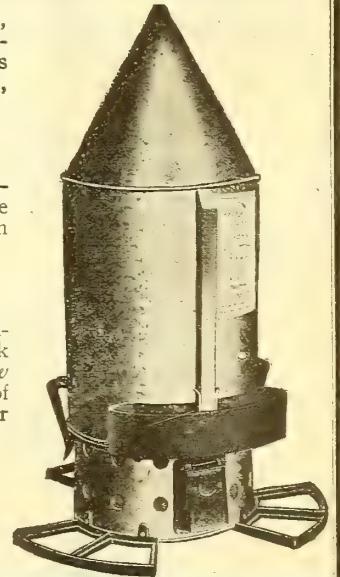
will supply the scratch grain in the right way—little and often—without attention on your part. It will give your birds the same exercise that was so beneficial on the summer range, keep them hunting and working. The

Norwich Automatic Air-Lock Fountain

will continuously supply fresh, clean water, free from contamination of any kind. Unaffected by cold weather. In practical work in the extreme North has proved frost-proof to 47 degrees below zero. You'll need it this winter. Guaranteed results from use of these appliances:—Greater egg-yield, healthier birds, and greater profits through the savings effected.

Write today for FREE COPY
of the complete Norwich catalog

THE NORWICH AUTOMATIC FEEDER CO.
21 Trumbull St. New London, Conn.



AGAIN THEY PROVE SUPREME. At the recent New York State Fair, exhibiting our famous

Speckled Sussex

We won all of the *five first ribbons*, all seconds except cock; also third cock and 4th cockerel and best display. On account of Mr. Rawnsley judging the class, we did not exhibit any

Buff Orpingtons

These late winnings added to our great record at Madison Square Garden and Chicago Coliseum, places our birds second to none. If you want quality birds at reasonable prices, write

Rawnsley-Shields Poultry Farm
5173 N. High Street Columbus, Ohio

SEX CONTROL

Spok Ahne Langshans

MAKING GOOD

"Sioux City, Iowa—The three chicks arrived O. K. I did not intend to insist on your keeping your guarantee. I got six chicks—five pullets, and four of them were fine—was all the more pleased to see you keep your word." Thank you for this courtesy, VAILE E. PURDY.

At Spokane Interstate Fair, Sept., 1916, our first show since 1912, we won 1st cock; 1st pen; 1st, 2d and 3d hen, and three National Langshan Club ribbons. *That's making good.*

Watch for our Dec. ad. A. P. J. only.

HERB. E. SHARP, LAN SHAN FARMS
R. F. D. No. 3 Spokane, Washington

SPIRALETS LEG BANDS
in ten fadeless colors. The strongest and best made. 25-25c; 50-45c; 100-70c; 250-\$1.50; 500-\$2.75; 1000-\$5.00.

PHITALL ALUMINUM LEG BANDS

with large number buttons. White, blue, red, yellow, green. Sure lock, the best band for trapnest and pedigree work. 12-35c; 25-65c; 50-\$1.20; 100-\$2.15; 250-\$5. Made by M. BAYERDORFFER, Hugenot Park, N.Y.

Special Introduction Sale of Fountains

We offer the best 2-gallon Metal Poultry Fountain made, for each, postpaid. This low 60c price is made possible by up-to-date methods of manufacture. The cut herewith gives some idea of our fountain which is easy to fill, carry and clean, and will not burst from freezing.

THE CLARK CO., 11 Barnes Rd., Newton, Mass.

SPECKLED SUSSEX, RHINELANDERS BLUE ORPINGTONS

REV. W. BERBERICH The Maples GROTON, NEW YORK

Use LICEOFF
(THE MODERN LICE KILLER)

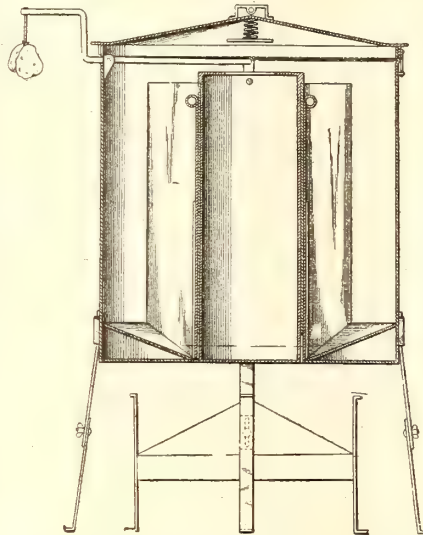
LICEOFF COMPANY, GREEN BAY, WIS.

MINORCAS Single Comb
BLACK

Thoroughbred Vigorous Stock
F. J. TRUBY LOMBARD, ILL.

entered. In leaving nest, the hen must pass over a pivoted platform which is operatively connected with the entrance door and pivoted gate. The hen's weight on the platform on the way out causes the gate and entrance door to reset to their original position automatically. Patent No. 1,194,432.

A Poultry Feeder of the automatically discharging type has been invented by John D. Seamans, Greenville, Texas. The grain is released thru discharge



Poultry Feeder, patented by John D. Seamans, Greenville, Texas. Patent No. 1,195,104.

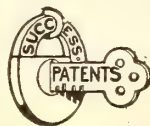
openings in the vertical wall of a cylindrical valve mounted in the center of the feeder, and which is operated by a bait suspended from a balanced lever, when the fowls pick at the bait. Patent No. 1,195,104.

Theo. Hewes Takes Over the Indiana Fanciers' Association

Mr. Theo. Hewes, the well known poultry show manager, has finally completed the chain of winter exhibitions, having taken over the Indiana Fanciers' Association of Indianapolis, and will put on the first show under his management, February 8th to 12th, 1917. This exhibit has been a combination show of poultry, pigeons and dogs, but the first show will be poultry and pigeons only, with the dog show under the same management coming the 13th to 16th of February, when a 3-point show will be benched.

Exhibitors and concession men should get in touch with Mr. Hewes at once and note the address is 25 W. Washington St., Indianapolis, Indiana.

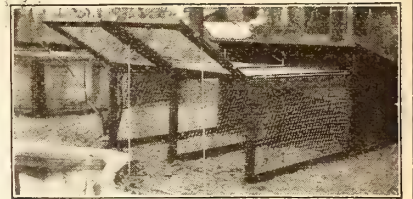
Patent Your Ideas



Inventions bring fortunes when protected by good patents. New ideas in great demand. I will get a valuable patent for you and help you make money from it. Ask about my free advice.

LESTER L. SARGENT
Cor. 9th and G Sts. Washington, D. C.

MULLER SECTIONAL BROODER COOPS & RUNWAYS



The most convenient, durable and attractive Brooder Coops and Runways on the market. All sections secured by galvanized steel rods passed thru screw-eyes, providing a rigid joint and a perfect hinge. Entire Double Coop and Runway can be assembled or dismantled in less than two minutes. Booklet Free.

FRANKLYN R. MULLER & CO. Dept. R WAUKEGAN, ILL.

CURTISS CUT LOVER

The greatest egg producing green food on the market. As essential as Beef Scraps to Fall, Winter and Spring layers.

Baby Dux and Choice Breeders
Yearlings and young. Prices right.

BABY CHIX—3 Weeks Notice
For soft meat roasters and winter broilers.

Eggs for Hatching

Leghorns, Wyandottes, Bantams, Reds, Pekin and Indian Runners and White African Guineas. 32 years in poultry business.

W. R. CURTISS COMPANY
Niagara Falls Ransomville, New York

How to Pick the Layers

Don't kill or sell your laying hens. The Potter System is a simple, certain method of picking the layers from the loafers or diseased hens. Used by over 50,000 satisfied poultry keepers. New 100-page Potter System book tells the secret and gives other information. If you want to make more money from your flock, write today. Full information free.

POTTER & CO., 10 Forest Ave., DOWNERS GROVE, ILL.

Ward's Champion

Dark Cornish

(Exhibited as Ward & Chilver.) Offer birds of unusual quality for the Fall and Winter shows. Get our prices before purchasing elsewhere. Cornish Fashion Book ready—red stamp appreciated.

JOHN W. WARD, Jr. Box 7 PENNINGTON, N. J.

NOW IS THE TIME for you to place your order for that

"Narrow Bar" Cockerel

A limited number of excellent breeders at \$3.00 to \$5.00 a piece. Grand exhibition cockerels.

GRANT STURMAN MT. CARMEL, ILL.

QUALITY BRED-TO-LAY

S. C. W. Leghorns

Exclusively. Before buying elsewhere tell us what you want and get our prices and free catalog. We guarantee to please.

THE ELLIOTT POULTRY FARM
R. 7, Box 87, Mansfield, Ohio



MORE EGGS—MORE MONEY
Feed CRY-CO.
A purified shell grit (cubical) guaranteed 99% Pure Carbonate of Lime.
Need no oyster shells or other grit, better results, less cost. Fine for little chicks. Highest endorsements. Write for booklet.
W. A. REUSZ & CO., ST. LOUIS, MO.

BARRED ROCKS

We have some extra young stock in cockerels and pullets fit to show and win in strong competition. We feel safe in saying the best we ever raised. Write me your wants.

G. A. WALKER POLO, ILL.

S. and R. C. WHITE MINORCAS
GOLDEN CAMPINES America's Champions. If you want to improve your flock we can furnish you stock at the right prices.

Thomas Brogden, Specialty Breeder, Box C, Rush Lake, Wis.

MONTHLY PRIZE CONTEST DEPARTMENT

The American Poultry Journal offers the following prizes monthly for the two best articles received on or before the fifteenth day of each month: For the best article, a prize of Three (\$3.00) Dollars will be awarded; for the second best article, a prize of Two (\$2.00) Dollars will be given. Articles intended for the Contest must be written on one side of the paper only and should not contain less than 1,000 nor more than 2,000 words. The articles may be written on any subject pertaining to poultry culture. We reserve the right to retain all articles submitted and to publish such as we deem worthy of space. Send all articles plainly marked to Contest Editor, American Poultry Journal, Lock Box 4, Silver Lake, Mass.

SCIENTIFIC POULTRY HOUSE CONSTRUCTION.

Many Ready Built Houses May be Improved in Construction by Making a Wire Screen Opening at One End and Putting the Roosts at the Other.

By W. C. DUMBLE, Toronto, Can.

THE air-lock, or caisson, and the internal combustion engine, strange to say, have their points of similarity with the new style open-front poultry house. A correct understanding of these two processes or principles have revolutionized all modern industrial activities and their general application is noticeable in the domain of our great billion dollar industry.

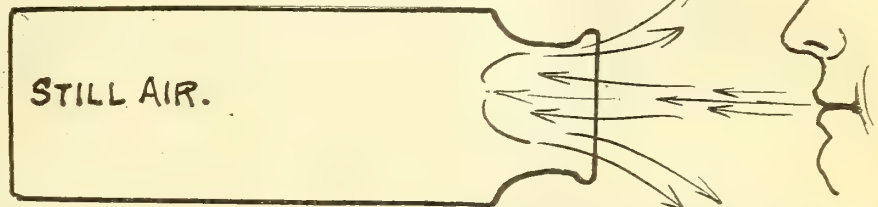
The air-lock caisson permits the laying of concrete foundations on the rock below the muddy bottom of great rivers or arms of the sea by forcing air into immense hollow steel structures, closed at the top and open below. A forced air pressure within the cavity prevents the entrance of water, permitting workmen to operate within and to excavate and lay concrete, thus making secure foundations for immense piers to carry a superstructure of bridge work or whatever. In this way the piers of many great bridges were laid supporting the great cables of such structures.

The last word in scientific poultry house construction embodies the principle of the air-lock. The correct fresh-air house is a caisson constructed, not up and down, but horizontally, closed on all sides and at the rear—but open at the front extremity. The enclosed air prevents the entrance of outside air. This is the essential secret of this style of house. Wind storms or rain cannot

penetrate far into this closed space. No matter how fiercely the storm beats outside, the rear end of the enclosure forms a quiet and secure resting place for the live stock within. As no inrush of water is to be feared in the caisson on the bottom of the sea, so no inrush of biting blasts can disturb the haven of rest at the rear end of the properly constructed open-front house.

The correctness of this principle may be tested by blowing forcibly into a long, open-mouth bottle. The air at the rear is not disturbed, your breath flies back into your face, it does not penetrate any

gasoline motor is the soul of the automobile, the submarine, the aeroplane, the zeppelin! Likewise, the combustion of corn in the internal economy, or anatomy of the flock on the roosting perch gives rise to an elevation of temperature, which heat, communicated to the surrounding air renders it lighter; whereupon, in obedience to a law of nature, it rises and is conducted by the sloping roof to the outlet in the front. This motion of air above the fowls is made continuous by a rising current of heated atmosphere, pushing the air in front ahead of it, thus ensuring a constant



Testing the principle of the air-lock. Air forcibly blown into an enclosed space does not penetrate. See article "Scientific Poultry House Construction," Monthly Contest Department.

distance into the space enclosed: the trapped air within prevents the entrance of outside air. (See illustration No. 1.)

But a trapped, stagnant atmosphere would be far from ideal for the health of living creatures! Just so, but fortunately another of the great scientific principles of the day comes to our rescue and solves the problem to perfection. It is the principle of the internal combustion engine! Internal combustion in a hen house? Yes, sir! And it works constantly, silently and effectively in our air-locked poultry house.

The internal combustion engine has revolutionized about everything! The

gentle strain forward to the exit. The vacuum thus created beneath the roosting perch ensures a gentle, continuous, but positive stream of outside air, fresh and laden with its full quota of oxygen. This stream of fresh air is quiet but positive, supplying a constant amount of life-giving atmosphere without draughts or sudden dropping of temperature. The outward current carries off with it the oxide of carbon. (See illustration No. 2.)

Thus protected from sudden gusts of cold air, and supplied with constantly changing streams of vitalized air, the fortunate dwellers in the open-front

Write Us if You Wish

Scranton's Single Comb Reds

WE OFFER NOW a superb lot of exhibition and breeding cocks, hens, cockerels and pullets—bred by Scranton and out of the flock that has for years been producing winners of highest honors at America's leading shows. The youngsters are from the birds that won for Mr. Scranton last December and January, **first pen, first cockerel, second and fourth pullet, fourth hen, third pen, best display and champion S.C. Red**

at the great **Madison Square Garden Show, N. Y.** Mr. Scranton declares them to be the best he ever produced. They will be sold subject to approval and we have birds capable of winning anywhere; rich, lustrous surface, deep undercolor, strong colored breasts and fluff and typical carriage, that will appeal to you as it does to those who place the ribbons. Write today for prices and Fall Sales List.

Royal Blue and Black Orpingtons, Speckled Sussex

the varieties Messrs. Rau and Fry are noted for—superior in type, color, size and vigor. Many grand exhibition and breeding birds in these varieties to sell. They are the sort that will make good in yard and show room and we offer real bargains during Oct. and Nov. Write us today—it will pay you.

RAU & FRY, Grand Hotel HAWTHORNE POULTRY FARM, Indianapolis, Ind.



RAISE the best *broilers* and *roasters* in shortest possible time at least expense, for your table or the market. It is a simple matter to put one-third increased weight on birds in twelve days with the ordinary feed by mixing

BLATCHFORD'S MILK MASH

Ask us for leaflet and nearest dealer

Blatchford Calf Meal Factory
Waukegan, Illinois

Keeps Water at Even Temperature All Year 'Round

Absolutely sanitary. Water cannot be polluted. Prevents disease. Saves work. Increases egg yield. Ira Franklin, Mgr., Farmers Grain Co., Atkinson, Illinois, says: "The

Ideal Sanitary Fountain

is the best I ever used." Made like a fireless cooker, of heavy galvanized iron, strong and durable. See list at dealer's. Send for circular, testimonials of satisfied users, and low prices.

Rockford Poultry Supply Co., Lock Box JJ-201, Rockford, Ill.



For Sale: 3 Candee Mammoth Hot Water Incubators of the following sizes: One 8400-egg, one 6600-egg, one 4200-egg capacity. Will sell cheap if sold soon.

If interested write for price and particulars.

FRANK BLUM, R. R. 2, Dept. A, New Washington, Ohio

S. C. WHITE LEGHORNS

Winners at Indianapolis and Fort Wayne, Ind. Winners and breeders for sale at reasonable prices.

Write your wants.

JOSEPH MAZELIN, BERNE, IND.

S. C. White Leghorns and White Wyandottes

A few good breeders for sale. Write us for prices.

P. J. FERRIS, Box A, CUYAHOGA FALLS, OHIO

house of this type enjoy a condition of good health not approached by any other contrivance devised to date.

Of course the essential principles of construction of this style of house must be observed. Many open-front houses are not the open-front fresh air house of the Woods' pattern. The length should be greater than the width for best conditions, with the front roof kept low, not above four feet at the eaves. The roosts are placed at the farthest distance from the open front which is closed with quarter-inch mesh wire screen. This suffices for all seasons. The open front faces the south or east. Complete details of construction may be found scattered thru the pages of

culture are: Robust heredity, a plentiful supply of sound grains, greens and gristle, pure water, and pure air twenty-four hours a day.

To bring about the adoption of these factors will require "line upon line" and to the poultry editors will fall the pleasing duty of preaching this gospel to the increasing multitude of those who are looking to poultry raising as a means of subsistence. Poultry craft is a science and these are the foundation stones upon which the enduring structure must be built. Any failures that may have been reported will be found upon investigation to have arisen from the absence of one or more of these before mentioned essential factors. Perhaps of



The internal combustion principle. The heat of the fowl's body causes air to become lighter. It travels upward and outward. Outside air comes in and sets up a gentle current, creating ample ventilation. See "Scientific Poultry House Construction," by W. C. Dumble, Monthly Contest Department.

AMERICAN POULTRY JOURNAL. The present article endeavors only to set forth the underlying principles on which the house is constructed. Reports from various quarters are piling up and all tend to prove the real value of the house as a protection for the flock, frosted combs being rarely found; the health of the stock remains first-class and the important item of the egg yield in winter is entirely satisfactory.

The fresh air idea is gaining for all classes of creatures, the human included. People who have learned to sleep in open porches and other out of door structures cannot be induced to sleep indoors.

In a few words we may condense volumes of poultry lore. The few essential facts that lie at the bottom of the entire structure of profitable poultry

these, faulty heredity and faulty housing have proved the most frequently lacking and the most fatal. The faulty housing is the one most in evidence, because it is visible to the naked eye. Everywhere we see the house that is defective in design.

The roosts are in the wrong place—too near the source of draughts. The roof is too high, and, thru the idea of keeping the fowls warm, all sources of fresh air are closed and the inmates breathe all night their own carbon-laden breath.

A great many ready built houses might be easily improved in construction by making a wire screen opening at one end and putting the roosts at the other. These two simple changes would go far to conform to the correct pattern.

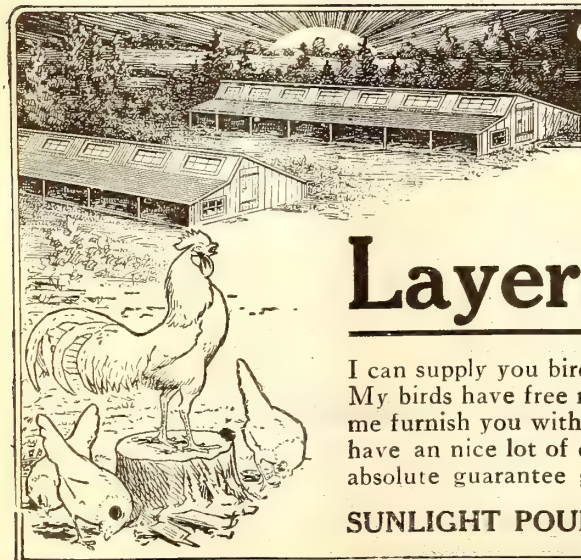
"SUNLIGHT" POULTRY FARM S.C.W. LEGHORNS

Best Known Layers. Young Strain.

Layers or Show Birds

I can supply you birds that cannot be excelled for type, color or as egg producers. My birds have free range the year around, meaning sturdy, vigorous fowls. Let me furnish you with a pen or a trio, that are fit to win in the early shows. Also have an nice lot of early hatched cockerels at prices that will surprise you. My absolute guarantee given to all; write me today, please, for catalog and wants.

SUNLIGHT POULTRY FARM E. N. LEMON, Owner Lynchburg, Ohio



A MINISTER'S SUCCESS WITH POULTRY.

Second Prize Article in American Poultry Journal's Monthly Contest.

By REV. F. P. FRANKE, Harvard, Neb.

FORMERLY, whenever I considered poultry raising, I was reminded of filth, lice, noisy male birds and notional hens that would lay a few eggs when they felt like it and not when you wanted the eggs. Remarks of my friends favoring poultry keeping and glowing articles on the profitability and beauty of a well-kept flock always found me with both ears stopped up.

Being a minister of the Gospel, I could not see anything particularly esthetic in a lot of hens digging about the grounds of the parsonage and the church. Coming to a new field in Wisconsin, I found upon my arrival there a well-built henery with a large well-fenced yard and a dozen fowls within, donated by the members of the congregation. My first thought was that these birds would soon see the inside of the pot after being well dressed. They must have read my thoughts, for they started right in laying and I could not then decide to dispense with them. One of the hens stole a nest and one fine day came off with fifteen hustling, healthy chicks, which at once became the delight of the family.

Figuring up the profit and loss one night, I found that the hens came out ahead and daily thereafter felt more kindly disposed toward them and decided to raise more. The following winter found me with twenty-five laying hens and a thorobred Rhode Island Red cockerel. The hens were, as I told a friend, representative of all the different sects and denominations in the country. And I laid it to that fact that they forgot all about laying that winter, probably keeping themselves busy discussing creeds and dogmas. A friend to whom I advanced this theory told me I was totally mistaken—that the hens were all right, but I was all wrong. He advised me to study a little more henology and a little less theology if I wanted to get eggs. So I invested in three poultry papers and a dollar book, but found that poultry authors disagreed about as much as the fathers on dogmas. When I came to figuring the profit and loss the second time, it really seemed to be all loss and no profit when the prices paid for literature and utensils were considered and the death and funeral expenses of the thorobred cockerel and several of the low-brow hens were taken into account. I phoned at once to have some crates sent up, thinking to deliver myself and family from further annoyance from hens for all time to come.

Just about this time, a friend, who was much interested, sent me one hundred eggs from his choice Buff Leghorns. I was really not greatly enthused, but a neighbor loaning us an incubator, I put the eggs in. Not being familiar with incubators, I inquired all about the art of running one and got instructions from all quarters, wholesale and free. If I could have followed all the advice given on how to run that incubator, no chick could have hatched therein, whereas they and their offspring are now scattered all over the United States and Canada where I have since shipped stock and eggs. As all advisers agreed that the best place to run the machine was down cellar, down it went. Everything

HERE! Write Your Own "Money-Back" Guarantee



On the greatest, most practical coal-burning brooder ever made. Self-feeding, self-regulating, everlasting. Broods 100

to 1000 chicks at a guaranteed cost of less than 6 cents a day. Used by over 10,000 big and little breeders. The

STANDARD COLONY BROODER PATENTED

Will do anything any other brooder will do regardless of price, and do it better. You know what a good brooder ought to be and do. Just put that on paper and our dealer or ourselves will sign it and ship the brooder on thirty days' trial. If it doesn't come up to every claim we make, you get your money back without argument.

Beware of Imitations.

AGENTS WANTED Some good territory still open. An attractive proposition for the right man or firm.
Book of Proof—Free. Write for it or ask your dealer.

THE BUCKEYE INCUBATOR CO.

113 Euclid Avenue

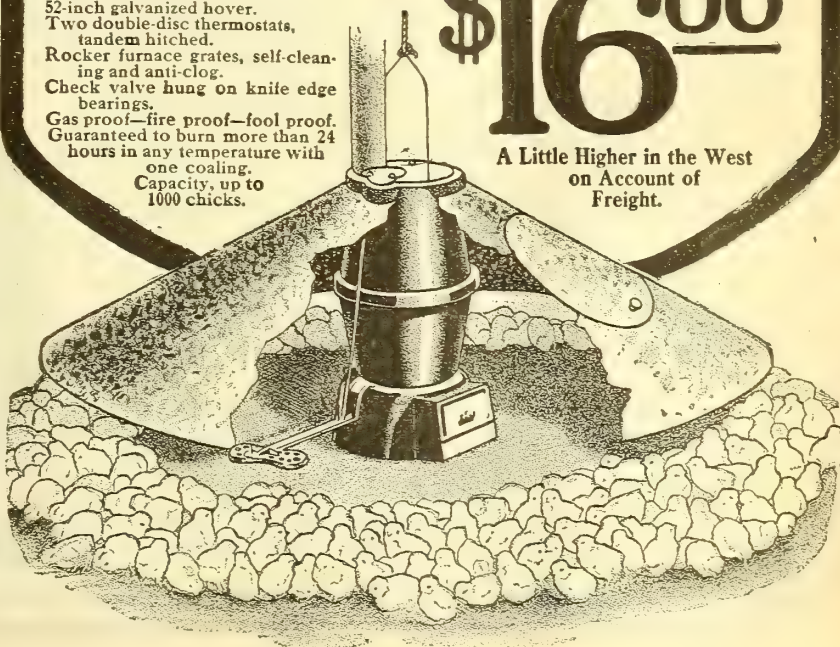
Springfield, Ohio

SPECIFICATIONS.

Solid cast iron stove.
52-inch galvanized hover.
Two double-disc thermostats, tandem hitched.
Rocker furnace grates, self-cleaning and anti-clog.
Check valve hung on knife edge bearings.
Gas proof—fire proof—fool proof.
Guaranteed to burn more than 24 hours in any temperature with one coaling.
Capacity, up to 1000 chicks.

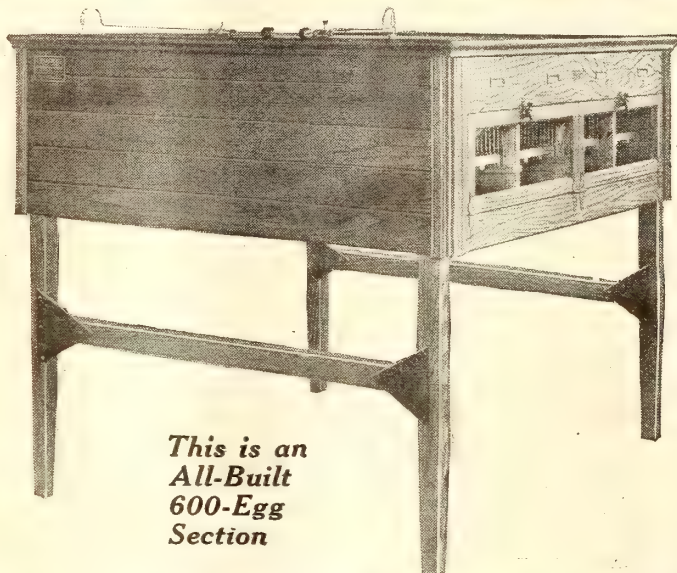
\$16⁰⁰

A Little Higher in the West
on Account of
Freight.



CANDEE

You Can Set Up a CANDEE Yourself—Save Time and Money



*This is an
All-Built
600-Egg
Section*

Each 600-Egg Section Shipped All-Built Ready to Set Up on Its Legs

The Candee Incubator saves the salary of an expert from the factory—saves an expert's railroad fare and expenses—and saves time waiting for the expert to come because you can set up its all-built sections on the legs yourself and start hatching at once without delay.

Each section is shipped from the factory with its hot water pipes all in place inside the section.

Shipped with its wooden partition in place, dividing the 600-egg section into two 300-egg compartments.

Shipped with its wire partitions in place, giving four divisions for four 75-egg trays in each 300-egg compartment.

Shipped with its connections in place all ready for coupling with the two main hot water supply pipes under the machine.

When you install a sectional Candee Incubator you need not build the machine when you get it, as would be necessary if you bought a "knocked down" incubator.

More Sections Can Be Added At Any Time

Because the Candee is sectional in construction, you can add new sections as your business grows without tearing down your first machine and without the expense of having the factory expert make the addition.

Should you ever move from one farm to another, it will be a simple matter for you to disconnect the Candee sections, carry them out of your cellar and haul or ship to your new location. It will not be necessary for you to knock the whole machine apart to move it.

And the Candee section easily passes through any ordinary door opening.

Critical poultrymen prefer the Candee because it is sectional in both construction and operation, and because they know it is thoroughly reliable there being more Candees in use than all other mammoth incubators combined.

Write for the Big List of Candee Users Who Have Added Extra Sections to Their First Machines to Take Care of Increased Business.

CANDEE

CA

Does a Candee

READ THE

Here are a few of the letters written by those who say it pays to operate a Candee Hatcher. The success of hatching chicks is so great that custom hatching

COULDN'T FILL DEMAND FOR CHICKS.

"Our 1,200-egg Candee incubator is giving perfect satisfaction, producing good hatches of sturdy chicks. As evidence of this will add that we have hatched as high as 89 per cent of fertile eggs and have not had a poor hatch. And out of 2,000 chicks hatched, there are more than 95 per cent living and growing today. I had no difficulty installing the machine—had help only to move sections and to place them upon the frames. We have all the orders we can fill this season and had to turn away many requests for both day chicks and eight-week-old-pullets."

C. D. Moore, Antwerp, N. Y.

BEGINNERS HATCHED 186 CHICKS FROM EGGS WITH CANDEE.

"Our Candee incubator has been running perfectly and we have had no trouble whatever with it. This was our first experience with a machine and hatched as high as 186 out of 225 eggs put in and this in a shed roof building, when the temperature of the house runs from 40 to 100 degrees."

J. T. Goodliff, Wellsville, N. Y.

NO LIMIT TO THE DEMAND FOR CHICKS AND CUSTOM HATCHING.

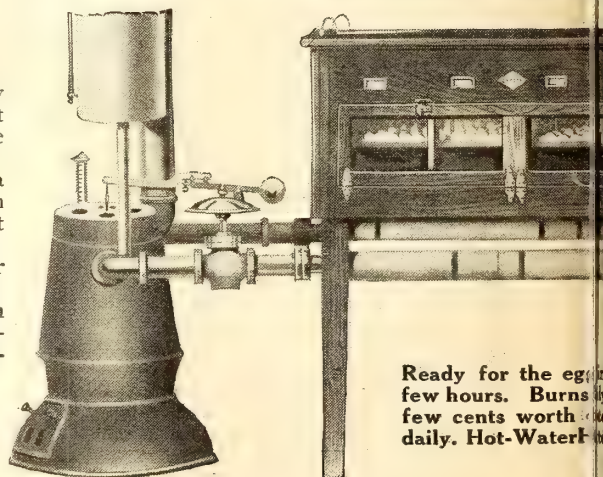
"I find that the commercial hatching is a profitable branch of the poultry business, and want to enlarge my plant for the next season, but have definitely made up my mind just to what capacity have now a 3,000 machine. The demand for day-old chicks and hatching business is steadily growing and there seems to be no limit; will just as far for the coming season as can extend my plant."

C. H. D. Summers, Gallipolis, Ohio

These letters prove that the public prefers Candee who operate safe and sure Candee Incubators.

Write now for your copy of the big free Catalog of poultry plants throughout the country, and of all that use Candee Equipment. Building plans, drawings

CANDEE INCUBATOR & BROODER LICENSED BY W. A.



Ready for the egg in a few hours. Burns only a few cents worth of fuel daily. Hot-Water

CANDEE

DEE

Your Eggs Cannot Overheat In a CANDEE Incubator

Hatchery Pay?

LETTERS

Owners of Candee Incubators, that tell why Note that the demand for Candee-hatched and baby chick orders must be refused:

COULD NOT FILL HIS ORDERS—MUST ENLARGE HIS CANDEE.

"Having just taken off my last hatch for the 1915 season, I am pleased to say that the Candee incubator I purchased from you has given me the utmost satisfaction in every respect, and I find the Candee is exactly what you represented it to be, and is so automatically regulated that the eggs simply cannot be overheated. I intend to add several more 600-egg sections for next season, as I could not fill my orders this season, though I hatched over 5,000 chicks."

W. R. Kaiser, Lansdowne, Ont., Can.

SOLD EVERY CHICK AS FAST AS THEY HATCHED.

"We are running our hatchery at full capacity this season and getting good hatches right along, and up to the present time have sold every chick hatched as fast as taken out of the machine."

Manti Mammoth Hatchery Co.

Erastus Jensen, Mgr., Manti, Utah.

POULTRY PROFITS EQUALED PROFITS FROM 35 COWS AND 160-ACRE FARM.

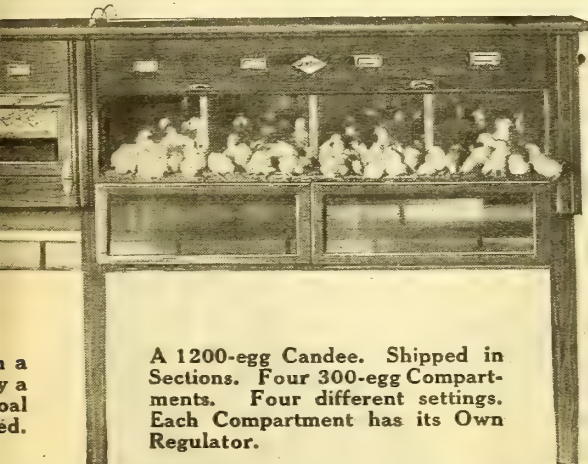
"I am still at this time tied to the dairy end of farm work as a helper, but run 500 hens every year and a 2,400-egg Candee incubator. I have run the 500 hens since the spring of 1911 and my wife and I next June have decided to make a break away from the dairy business and run poultry exclusively, as our profits from our poultry plant have equalled my father's profits from his 35 cows and the 160-acre farm every year. My 500 layers and pullets on range every year only require 3 or 4 acres at their liberty."

J. H. McClelland, Hobart, N. Y.

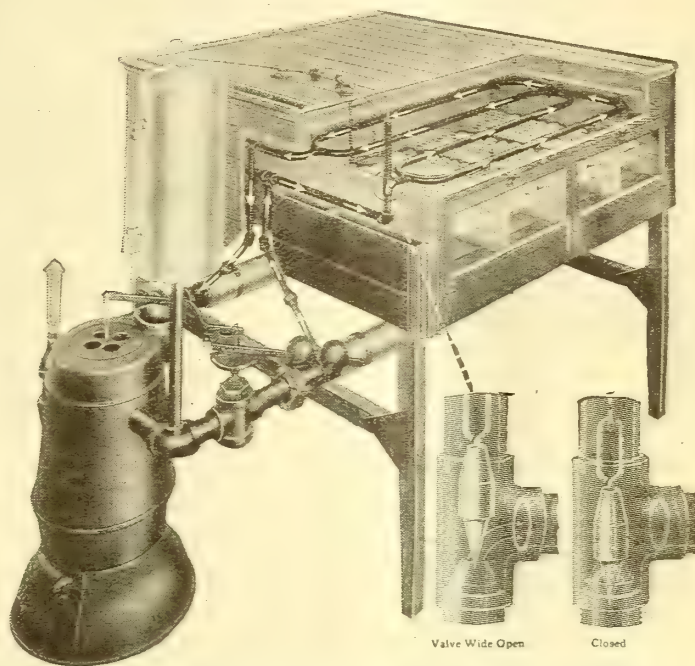
-hatched chicks, and that the business goes to those

containing pictures of many successful hatcheries and prominent Colleges and State Experiment Stations on scale, furnished free upon request.

R CO., Dept. 2, Eastwood, New York
CHLEIT MFG. CO., Inc.



A 1200-egg Candee. Shipped in Sections. Four 300-egg Compartments. Four different settings. Each Compartment has its Own Regulator.



Automatic Regulator at each 300-Egg Compartment—and Regulator at Heater

With the Candee, there is no worrying and watching and getting up in the middle of the night to prevent baking of the eggs because

The regulator at each 300-egg compartment, shown above, automatically shuts off the hot water from the compartment when the temperature is right, and then that hot water flows around under the machine through the main supply pipes until it is needed in the compartment, when the regulator again automatically opens the valve.

The regulator at the heater automatically opens and closes the draft to the fire, according to the temperature of the water in the heating system, which with the compartment regulators gives double protection against any over-heating of the eggs in the Candee.

With the Candee, there is no raising and lowering of the trays by hand to give the eggs the correct heat, which must be done with incubators hand regulated.

And as the Candee trays remain stationary all the time, there is a large roomy nursery for the chicks in the bottom of each egg chamber.

With the Candee, you need operate only as many compartments as you have eggs to fill, because the flow of the hot water can be shut off from one or more compartments any time.

Our catalog contains many letters from pleased users of the Candee, who tell of their big hatches of strong, sturdy chicks resulting from the constant, correct temperature compelled by the double heat control and regulation.

The Candee principles of operation and construction, covered by broad patents, are unchanged after years of use on hundreds of poultry plants and by all the big colleges and Experiment Stations. The Candee Incubator is not an experiment and insures the best possible hatching results.

It is sold with the invitation: "Write your own Money-back Guarantee and attach it to your order," which proves our confidence in the efficiency of our equipment.

The Candee Colony Brooder

Coal-Burning—Self-Regulating

Broods up to 500 chicks in one flock in one building, with only one heater and one coal fire to attend. Write for special catalog describing and illustrating this Brooder.

The Candee Brooding System

Hot Water Heat—Adjustable Hovers

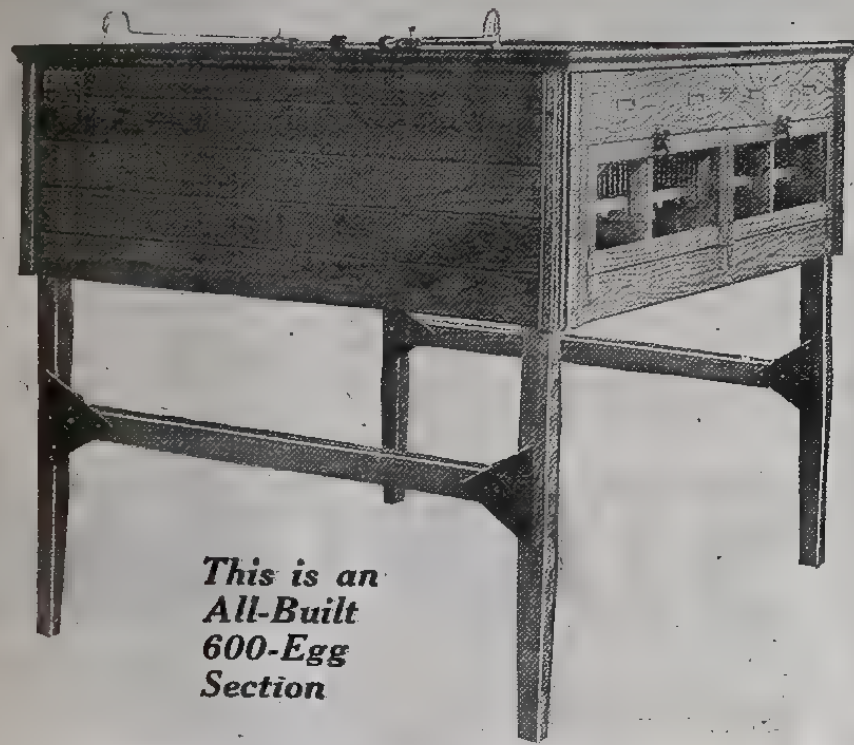
Broods all ages of chicks at one time in one building. The hot water heat is supplied by one coal-burning heater, with automatic regulator, to any number of adjustable hovers. Each hover has a capacity of from 50 to 65 chicks.

Free Building Plans and Itemized Estimates on Any Size Equipment Gladly Mailed on Request.

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600-Egg
Section

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Does a Candee Hatchery Pay?

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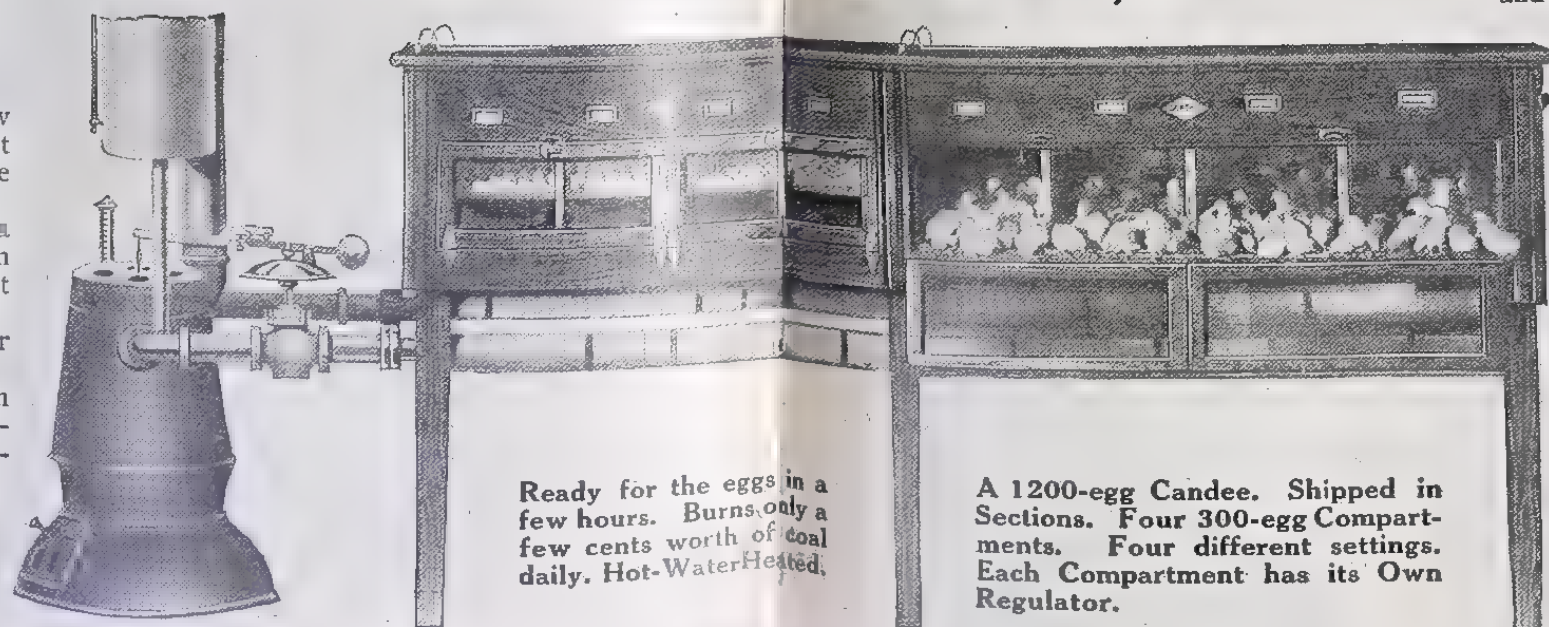
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C. H. D. Summers, Gallipolis, Ohio.

These letters prove that the public prefers Candee-hatched chicks, and that the business goes to those who operate safe and sure Candee Incubators.

Write now for your copy of the big free Catalog containing pictures of many successful hatcheries and poultry plants throughout the country, and of all the prominent Colleges and State Experiment Stations that use Candee Equipment. Building plans, drawn to scale, furnished free upon request.

CANDEE INCUBATOR & BROODER CO., Dept. 2, Eastwood, New York
LICENSED BY W. A. SCHLEIT MFG. CO., Inc.

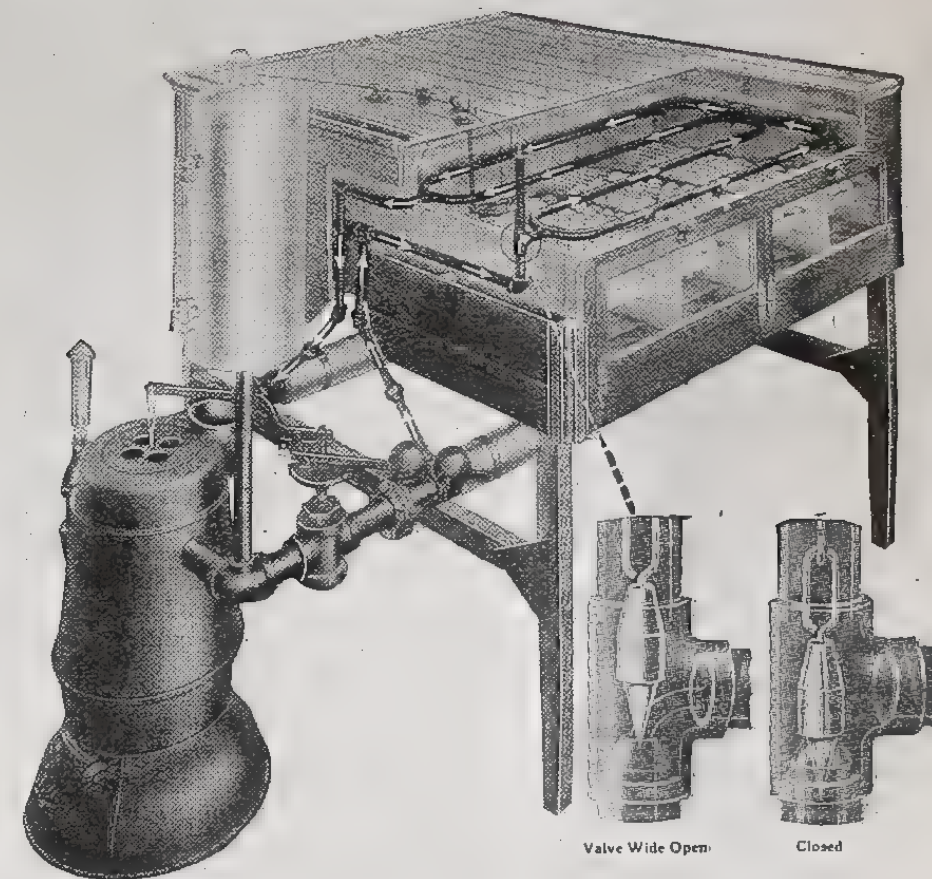


Ready for the eggs in a few hours. Burns only a few cents worth of coal daily. Hot-Water Heated.

A 1200-egg Candee. Shipped in Sections. Four 300-egg Compartments. Four different settings. Each Compartment has its Own Regulator.

CANDEE

Your Eggs Cannot Overheat In a CANDEE Incubator



Valve Wide Open Closed

Automatic Regulator at each 300-Egg Compartment—and Regulator at Heater

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Free Building Plans and Itemized Estimates on Any Size Equipment Gladly Mailed on Request.

CANDEE

SQUAB BOOK FREE

for 1916, telling how a Mich. hired man now works for Ind. man sold 4652 PR squabs for \$1265 in 1915 and cured himself of desire to leave the farm, how a S. C. man ships PR squabs 125 miles to city hotel by parcel post at \$4.25 doz., how another earned one thousand dollars with PR stock from start with only one pair, how a Texas judge bred 8 pigeons until they amounted to a flock of 164 in one year, how a Vermont bred 25 pairs to 800 pairs in two years. You can do the same. More money-making experiences. **Write today for this big free book.** How to get six dollars a dozen, how to start small and grow big. We ship breeders everywhere, safe delivery guaranteed. Read how one of our customers gets as high as \$8 a dozen for squabs in Pittsburg and makes a net profit of **ninety dollars a month.** Note his selling methods. Reading matter which is alive with selling as well as breeding ideas. Squabs well sold are easily raised. Many successful women customers. Read of their methods and the results they accomplish. For prices and full particulars see our free book, "How to Make Money with Squabs." Write for it today.

PLYMOUTH ROCK SQUAB COMPANY,
321 Howard St., Melrose Highlands, Mass.

Founder of the Squab Industry in America

World's Greatest Layers

Perfected English 200-Egg Strain

S. C. W. Leghorns, W. Wyandottes,
S. C. R. I. Reds, Buff Orpingtons.

282 EGGS PER YEAR
PROOF—1st prize Leghorns, North Am. Egg Contest; 5 hens laid 1139 eggs; Reds 1st prize, five hens laid 1043 eggs, highest official Red record; Wyandottes, Missouri Egg Contest, 10 hens laid 2006 eggs, over 200-egg average. Most profitable poultry known. Reduced Prices on Breeding Stock. Hatching Eggs 1/4 Price; Baby Chicks. Write today for Free Book, "Story of the 200-Egg Hen," contains valuable information that will increase your egg yield.

PENNA. POULTRY FARM Box M, Lancaster, Pa.

Don't Feed Green Food!

Succulenta Tablets

They are better and cheaper and more relished by all fowl. Simply dissolve one tablet in one quart of drinking water for fowl. Sample can (100 large tablets) by mail 50c. Can of 250 large tablets by mail \$1.00. **YOUR MONEY BACK IF NOT SATISFIED.** Drop postal for particulars to The Succulenta Co., P. O. Box 405-1, Newark, N. J.

1 Gallon Oil Put a gallon of oil in X-Ray Tank, light the lamp and the **X-RAY INCUBATOR** does the rest. Duplex central heating plant means no cold corners—even, mild heat all the time. Send for free book 1. Express prepaid to practically all points.

THE X-RAY INCUBATOR CO.
Des Moines, Ia.
Box 10

One Filling Express Prepaid

Oat Sprouter \$2

For \$2.00 you can build the simplest, most efficient, easiest to operate and best oat-sprouter ever constructed. A boy can make one in an evening with no tools but saw and hammer. Thousands in successful operation. Plans with plain directions for building, 10c postpaid.

I. PUTNAM, Route 1005 ELMIRA, N. Y.

45 Varieties Land and Water Fowls



Send for free illustrated catalogue, which tells you much you should know. Stock and eggs at all times. Mention A. P. J.

S. A. HUMMEL Box 52, Freeport, Ill.

went along smoothly but the thermostat, which had a way all its own quite beyond human control. The second week of the hatch the cellar flooded and I found the machine nearly afloat. It was rescued and placed on a dryer spot back of the big coal heater—and in spite, or on account of the flood, I have been unable to determine which, hatched out 67 chicks.

The fluffy little things soon began to grow and hunt for a living. I was attached to them from the start, notwithstanding my previous lack of respect for the poultry family. I determined to keep some of them for curiosity whether they ever laid or not. Being accustomed to seeing a flock of big clumsy low-brow fowls about the place, I thought the Leghorns were only half grown when they began to lay and continued to do so.

Shortly after this I was called to another field in Illinois, just an ideal location for my Leghorns. Cornfields in front of us, cornfields in back of us and the flock kept right on hunting up a good living and laying a good supply of eggs. I began to advertise stock and eggs, but got a lot of free advertising from the beauty and attraction of my flock display upon the lawn and from the man to whom I sold surplus market eggs. That little flock of Leghorns was an eye opener to me, showing up the possibilities in poultry keeping on a limited scale. I had to work with the crudest kind of equipment, as it would not have paid me to invest heavily while moving from one charge to another and yet my success was phenomenal and I realized almost as much from poultry keeping as salary paid me by the con-

gregation. In addition to this there is great enjoyment to be found in the work and I shall never cease to be glad of my initiation into the great and growing fraternity of poultry lovers.

Hatch by Electricity

The **LO-GLO ELECTRIC** Incubators and Hovers are the final expression of the art of Incubation. Absolute control of Heat, Moisture and Ventilation insures big hatches and strong chicks. All metal. Fireproof, sanitary, indestructible, odorless. Write for free booklet (J).

LO-GLO INCUBATOR CO., Inc.
76 Greenwich St., N. Y. City, U. S. A.



Banks' S. C. Reds

Winner A. P. A. Gold Medal
Best Cockerel, Harrisburg, Pa., Dec., 1915

Satisfaction guaranteed.
Send for Mating List.

M. H. Banks, Dillsburg, Pa.

White Langshans and White Indian Runner Ducks

FOR SALE AT
MOHAWK POULTRY FARM
R. H. Moore, R. F. D. 1, Nellie, O.

CHAMPION

Rhode Island Reds

won 1st Hen and 4th Cockerel at Greater Chicago Show, January, 1916, only three birds entered. Eight 1st Prizes, three 2nd, two 4th and one 5th prizes at Hammond, 1915 and 1916.

Young and Old Stock For Sale.
FRANK JOHNSON, 220 W. 110th St., Chicago

Help Your Molting Hens They Will Pay You Back

Hens can't lay when molting; they are too busy making feathers. And at this critical time they are in danger of contracting disease because of weather changes, lack of plumage and weakened condition. Help them now. Quick action is needed. They will pay you back in dollars and cents.

For a positive, quick-acting Poultry Tonic and Conditioner use

Pratts Poultry Regulator

the poultryman's favorite for nearly 50 years. A scientific combination which supplies those needed tonics, appetizers, digestives and laxatives lacking in the usual poultry ration.

Costing but one cent a hen per month, it puts vim and vigor into weakened molting hens, carries them quickly and safely through this dangerous period, gets them to laying without loss of time.

Because of its beneficial action upon the organs of egg-production, it will speed up your pullets, too. One egg now is worth three next spring, so use Pratts Poultry Regulator and get eggs now.

Pratts Roup Remedy

will help a lot, too. Used in stormy, cold weather as a preventive, it will keep the flock free from troublesome colds, roup and similar disorders. If these troubles have already appeared, Pratts Roup Remedy will save the birds. Roup hens will not lay, and will give the disease to the rest of the flock.

Our dealer in your town has instructions to supply you with Pratts Preparations under our square-deal guarantee—"Your money back if YOU are not satisfied"—the guarantee that has stood for nearly 50 years.

Write for 64 page Poultry Book—FREE.

PRATT FOOD COMPANY

Philadelphia Chicago Toronto

Pratts

Readers Experience Department



Selling Eggs by Weight.

YOU are aware I have found fault many times with Egg Laying Contests in the past, that they did not tell but half of the story. Practically all food products excepting eggs are now sold by the pound. There is a law in Massachusetts that eggs should be so sold, but they are not.

There is no justice in paying as much for eggs weighing eighteen to twenty-one ounces to the dozen as those weighing twenty-four to thirty-two ounces per dozen. But eggs differing as widely as that in weight are being sold side by side in the same market with little or no protest from the purchaser. When we can demand that a dozen eggs shall weigh twenty-four ounces and compel the law respected that eggs shall be sold by weight, then we may hope to see justice in prices in the different breeds.

When 150 Brahma eggs, 168 Plymouth Rock eggs, and 213 Leghorn or Wyandotte eggs all weigh the same, and each as a food supply the same value only, why should we reckon their productive value in the number of eggs laid by each? When five Brahma eggs and seven Leghorn eggs make the same amount of custard, why should the Brahmas be handicapped in money value thirty per cent, and why should the Plymouth Rocks be obliged to pay twenty-nine per cent handicap to the Leghorn in order to compete in the same market.

The hen "Rebecca" laid 315 eggs that

weighed 30 ounces to the dozen in 333 days. Whoever saw a small egg variety producing eggs weighing more than 24 ounces per dozen. In the case of "Rebecca" we find her laying 13 pounds more in a year than a small egg hen in the same length of time, using the maximum weight of 24 ounces per dozen. What sense in being satisfied with the same price for the two hen's eggs. The hen that lays the greater weight of eggs is the prize hen in the egg laying contests regardless of the way many contests have been and are being conducted.

Let the breeder come to the front and demand eggs sold by weight, then each will get a fair reward for the food furnished. This change once brought about and we will see twenty to thirty per cent increase in the demand for the Asiatic and American breeds. Our first-class hotels and restaurants now will pay fifty cents per dozen yearly rates for Brahma eggs, but these are sold by special contract, guaranteeing twenty-four ounces and over to the dozen.

Create a demand for the twenty-four

to thirty-two ounce per dozen eggs and more and better poultry will be the result.

Natick, Mass.

I. K. Felch.

White Orpingtons.

Since the subsiding of the Orpington "boom" with its greatly inflated prices, which held possession of this country and Canada for several years, the White Orpington has gradually come into its own and now enjoys a wide and deserved popularity, based on genuine merit.

As an exhibition fowl they rank among the first to merit a fancier's attention. Handsome, stylish, docile, they readily lend themselves to the handling and training that are so necessary to turn out prize winners in a large class against strong competition. In the production of exhibition specimens the fancier will find a fertile field for the exercise of his skill in mating.

At the shows thruout the country the number of entries in the White Orpington class are growing and new breeders

Farm For Sale

POUULTY FARM consisting of 28 Acres, with four large laying houses, each 400 ft. long, incubator cellar and feed storage building 135 ft. long, equipped with Candee Incubator of 29,400 capacity, brooder house 235 ft. long, containing 100 hovers, also 50 colony houses, size 8 x 10 and 8 ft. high. Buildings and equipment but two years old. Two-story modern dwelling, also 700 fruit trees.

Breeding stock consisting of 4000 hens, 400 males and 7000 young stock. Located three miles from city of 60,000 population on stone road, and electric cars pass the farm. *Make us an offer.*

Lily White Poultry Farm
Saginaw, Michigan



A Square DEAL

That's what you get when you buy

Powers' White Wyandottes

I have 600 fine youngsters for sale, all bred from the bluest of White Wyandotte blood—both exhibition and utility. My strain has an exceptional egg record. Write me for the proof. If you want prize winners and layers that will keep the egg basket full, Powers' White Wyandottes will more than satisfy you. Inquiries will receive prompt attention.

J. H. POWERS POULTRY YARDS

7920 Bennett Ave.

Chicago, Illinois

Ready to Win

Let us furnish you with birds prepared to win at the fall shows. Remember, our Buffs won at Madison Square Garden last winter, 1st Cock; 1st, 3rd and 4th Cockerel; 2nd Hen; 1st and 3rd Pullet; 1st Pen and best display—a record unapproached by any other strain. Look up our wonderful record at Pittsburg and Syracuse on Monmouth White Leghorns.

S. C. Buff LEGHORNS S. C. White

"The Twentieth Century Dual Purpose Fowl"

We have cockerels and pullets from these famous prize winning birds. Better than ever in color, type and quality, sure winners anywhere. Also fine yearlings and two-year olds. We are prepared to furnish pens, tris, and 50 and 100 lots.

Our birds are large, hardy, and vigorous. The pullets mature quickly and are unexcelled as layers. Many of our breeding hens have produced more than 180 eggs during their pullet year. Start now and start right with Monmouth Leghorns—Buffs or Whites. Write at once for price list and full particulars. Tell us your needs. We can help you.

Watts Bros., Owners
John Lockwood, Supt.

Monmouth Farms

Box 23
FRENEAU, N. J.

I COULD DIE EATING RAT SNAP

says the rat—and he does! He prefers it to all other food and it is the last he eats. RAT SNAP chemically mummifies the carcass. Prevents all odors. Does not dry up, soil, decay or blow away. Not mixed with other food. Ready for instant use. Surest, quickest, safest, cleanest, most convenient and sanitary method of exterminating rats and mice.

Get rid of rats! It is economy. Buy ten big cakes prepaid, for a dollar. Send today. *Protect Your Chicks and Feed Supply.* **MERCHANTS DRUG COMPANY** Easton, Maryland



GET MY PRICE

THIS is the finest, cheapest, most efficient hatcher I have been able to produce after thirty years. Thousands have proven it perfect in heat, moisture and ventilation. Round like a nest, just the right size. 66 eggs, for economy, convenience and results. Fitted with famous Sheer Automatic Fixtures, and guaranteed to hatch every hatchable egg. The 1918



"Peerless-66" is the only practical, all-metal, fire-proof, everlasting hatcher ever produced. Make any new or old incubator absolutely automatic with Sheer Fixtures. Automatic Lamp, Regulators, Complete Heating and Ventilating Systems, Incubator Parts, etc. World's standard 25 years. Big Book FREE. **H. M. SHEER COMPANY,** 165 Hampshire St., Quincy, Ill.

BROWN LEGHORNS

The kind the fancier delights in. Winners at Boston, Chicago, Madison Square.

Show birds and breeders for sale. Can furnish winners! now. Write for circular today. Free. Eggs \$3 and \$5 per setting. **W. H. WIELKE** Box P-348 Ft. Wayne, Ind.

DISCOVERED

The world's best safety lamp and perfect egg tester. Has extra strong bulls-eye lens.

Price single tester.....\$1.00
Double tester.....1.25

Post paid. Free circular.
C. Lingeman 3110 Elliot Ave. St. Louis, Mo.

RELIABLE POULTRY JOURNAL

3 MONTHS' Trial Sub. 10c

Tells How to Succeed with Poultry. 1 year, 50 cents; 3 years, \$1.00

Reliable Poultry Journal Pub. Co., Dept. E-16, Quincy, Ill.

Belle City Now 25 Times World's Champion Incubator

Get the story. My new Freebook, money making "Hatching Facts," tells everything. Get all facts, proofs, full particulars, money-back guarantee. My low price will surprise you. Write today. Address Jim Rohan, Pres.

Belle City Incubator Co. Box 27 Racine, Wis.



Examine

those hens that are not doing well, send for a box of **Louse Remedy** of the

White City Egg Farm, Seville, Ohio, thereby prevent loss and bring profit. Price, postpaid, 50 cts.

AS USUAL

LEE'S COLUMBIAN WYANDOTTES win all—1st and 2d at Lake Forest Fair. Stock for sale.

LEO A. LEE 4840 Belle Plaine Ave. CHICAGO, ILL.

are constantly bobbing up to share in the honors. This is perhaps due to the fact that a good many of the older White Orpington breeders have been bending their efforts toward producing not only show quality but also to combine with this the faculty of high egg production. This aim has been difficult of attainment, but at the present time we find some of the best show specimens also holders of high laying records or fathers of hens with high laying records.

As a breed White Orpingtons are a fowl capable of standing extreme climatic conditions and possessed of the necessary vitality and stamina to undergo forced feeding for high laying records and conditioning for exhibition; with the ability under these conditions to go into the breeding pen and furnish a high percentage of fertile eggs, capable of producing good strong chicks that grow quickly and mature into laying pullets when five or six months old.

The White Orpington aisle at any show where the bulk of attendance is generally people who do not raise chickens but would like to if they lived in the suburbs or country, comes in for its full share of admiration. Necessarily, they must be pretty, stylish, something whose form, color and carriage pleases the eye or they would not receive all this attention from those who are not fanciers.

The beginner selects the breed he is going to raise from having seen the same at some show, from a study of the various 'poultry' magazines with their numerous ads, or upon the advice of neighbors who have had experience with this or that breed.

Should he be one of those who have stood in front of the first prize pen of White Orpingtons at some large show and gazed longingly at them, the chances are very good that he will either purchase White Orpington stock or hatchling eggs from some good breeder.

If he selects his breed from the ads of a poultry magazine, the chances of the White Orpington being the breed selected are equal with that of any other breed, more especially if he has at some time seen a good pen of them.

Should he act on the advice of neighbors who have bred White Orpingtons and should plenty of eggs during December, January and February be any inducement, White Orpingtons will be the breed he selects. However, it is well to remember that ordinarily a person will not make a success with any live stock, be it poultry, hogs or cattle, if their form and color do not harmonize with his ideal of beauty for a given kind of stock.

Gladstone, N. D. Rufus B. Lee.

Buff Rocks in Close Confinement.

One of the most interesting articles that I have read in the **AMERICAN POULTRY JOURNAL** since becoming a subscriber and reader of it, which I have been for some three or four years past, is that appearing in the January issue regarding the development of a 1915 flock of "White Rock Pullets."

In that article the results were taken from a pen of nine picked pullets up to the time that they had been laying for forty-five days, in which time they had laid 83 eggs.

Now we have a pen of "Buff Rock Pullets" of exactly the same number, nine, and as these birds have been kept confined, in the strictest sense of the word, it will be interesting to compare

The home of

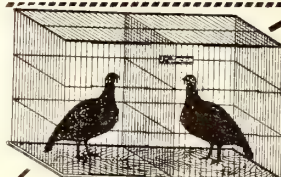
Heavy Laying LEGHORNS

BRED to "Shell Out" Eggs, in Winter, and do it.

One flock of 200 paid us \$5.62 each per year. You can do as well.

Guaranteed fertile hatching eggs and stock at *let-live* prices. Illustrated catalog. Write.

OSEE C. FRANTZ FARMS ROCKY FORD COLORADO



Show your fowls in our clean and handy, vermin-proof coops. Used by leading fanciers and poultry shows. Finest looking coop on market.

Keipper Collapsible Coops

Made entirely of galvanized wire. Fold perfectly flat. Easily stored. Easy to set up. Shipped by parcel post. Outfits rented to bench shows. Write for catalog and money-saving prices.

KEIPPER COOPING CO., 1401 First St., Milwaukee, Wis.

Tycos INCUBATOR THERMOMETERS

"always tell the truth." Always found in the best incubators. Insist that your new machine be thus equipped and put *Tycos* in your old ones, too. Price 75c each, at your dealers or from us, postpaid. Send for free booklet, "Thermometer Facts Worth Knowing."

100 Ames St. **Taylor Instrument Companies** Rochester, N.Y.

70 EGG INCUBATOR \$5.50 FREIGHT PAID \$5-

Here's the best incubator offer on the best incubator. Guaranteed to hatch equal to any \$15.00 machine.

Complete 1916 RELIANCE Incubator. Best built—double walls, hot water heat, copper tank. Full equipment—lamp, regulator, thermometer, etc. Freight Paid. Order today on Satisfaction or Money Back Guarantee—or write for literature. We make Brooders, too. **RELIANCE INCUBATOR CO.,** Box 50 FREEDPORT, ILL.

Silver Penciled Wyandottes

Eggs for hatching from Chicago winners. Stock for sale. Write today.

AUG. BLOESE

5733 Lawrence Ave. Chicago, Ill.

EGGS FOR HATCHING

S. C. W. Leghorns, Light Brahmas and Barred Rocks. Real quality throughout. Send for catalog.

W. H. WARD, Nickerson, Kansas

RED SUSSEX EGGS HALF PRICE

Single setting rate May 1. Write for mating list.

W. F. FRASE Route 21 East Akron, Ohio

Barred Plymouth Rocks

Eggs for hatching from both matings, \$5 per 15. Satisfaction guaranteed.

CARTER'S POULTRY FARM, Jonesdale, Wis.

Almendinger's Rose Comb Wht. Leghorns

Won at Buffalo, the past 5 yrs., 4 firsts and 3 seconds on chicks, 3 firsts and 3 seconds on pullets, and all firsts on hens. Choice birds, or eggs for hatching.

A. F. ALMENDINGER, 180 E. Delavan Av., Buffalo, New York

S. C. W. ORPINGTONS

Chicago winners. Eggs for hatching and stock for sale.

W. E. READ Phone 1018M. 919 N. 7th Ave Maywood, Ill.

Single Comb Reds

Eggs for hatching half price after May 15th Satisfaction guaranteed

John Stiarwalt 833 E. Wood St., Decatur, Illinois

S. C. W. ORPINGTONS

First prize winners at Wis. State Fair and Milwaukee Natl. Show. Fine prize winning trio S. C. W. Leghorns for sale. Write for prices on stock and eggs. Try us.

NOVAK POULTRY FARM Route 1 Racine, Wisconsin

The Marvelous Newtown Giant Stands Supreme Among Incubators

A strong statement—but we have *ample reason* to believe it to be *absolutely true*. Our faith is justified by the *consistently satisfactory performance of the machine itself under all conditions and in all parts of the world*.

The Newtown Giant is the only incubator for you if you require the machine which will positively “hatch the most chicks, the best chicks with least labor and at lowest cost.” Below are a few reasons for acknowledged Newtown supremacy:—

Supreme in Efficiency

Actual performance in all climates, under all the varying conditions the world over, has demonstrated the Newtown to be the most efficient hatching machine.

Supreme in Construction

This applies to every part of the machine. The most exacting care and the very highest skill are used in manufacturing the Newtown.

Supreme in Durability

The Newtown is substantially built and will last a lifetime. Every part is carefully inspected and strongly put together. Each machine is completely assembled before shipment. This insures accurate fitting and perfect operation.

Supreme in Improvements

This has been the greatest factor in Newtown success. Only those features which stand the most severe tests are adopted. They include the Automatic Coal Feeder, Automatic Regulator at the Heater, Automatic Regulator of Heat, Ventilation and Moisture at each compartment, Automatic Eggs Turner, Automatic Temperature Indicator and Automatic Electric Alarm.

Supreme in Service

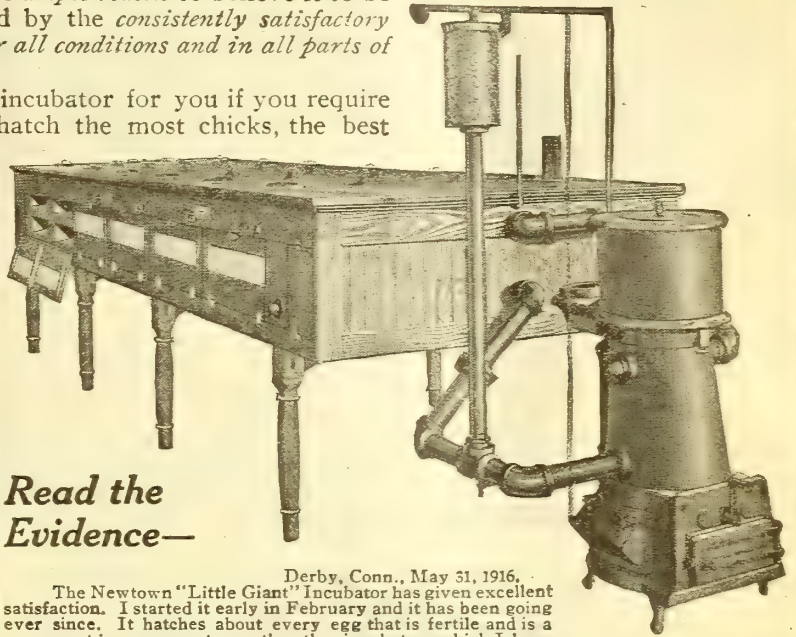
Nothing is left undone to insure that every Newtown user shall get the very best and greatest possible service from his machine. Everything is designed for convenience and service.

Supreme in Satisfaction

Every Newtown customer is a satisfied user. Ask the poultryman who owns one. A great many people who purchased Newtowns last year have already placed orders for increased capacity to be installed at once. This is the final test.

Supreme in Sales

Because they are supreme in Efficiency, Construction, Durability, Improvements, Service and Satisfaction, the sales of Newtown Giant Incubators are more than doubling each season.



Read the Evidence—

Derby, Conn., May 31, 1916.
The Newtown “Little Giant” Incubator has given excellent satisfaction. I started it early in February and it has been going ever since. It hatches about every egg that is fertile and is a very great improvement over the other incubators which I have had of smaller size and different makes, although they were considered to be among the best of the smaller machines. MAPLEDALE FARM, (Judge) W. S. Downes, Owner.

Waverly, Iowa, May 15, 1916.
We have thoroughly tried out our 3000-egg Newtown Giant Incubator and find it highly satisfactory in every way. It keeps the temperature perfect—same does not vary one-fourth of a degree in the various compartments. We were surprised at the small amount of fuel this machine takes, and have taken off two splendid hatches. We are perfectly pleased in every particular, and shall be glad, at all times, to recommend Newtown Giant equipment. RHODE ISLAND RED JOURNAL CO., A. G. Studier, Editor.

Somerset, Mass., June 12, 1916.
Am very much pleased with the way my machine has worked. I do not see how any machine could do better work. One of the things that impressed me most was the Egg Turner and decided me in your favor. After using the turner for one season I can say nothing but praise for it and feel that it has saved its price over and over in the time and labor. I have never had healthier or better chickens than I have had this year. Wishing you the success with your machine that you deserve. ERNEST L. PIERCE.

Reno, Nevada, April 6, 1916.
I am very well pleased with the 6000-egg size Incubator purchased of you this Spring. Your egg turning device is certainly a big improvement over last year's model. We are turning out the best chicks we ever hatched and more of them. Our 1200-size purchased last year, remodeled with this year's trays, hatches 20 per cent. better: 1056 eggs set; hatched 815 chicks, 1st hatch. 1056 eggs set; hatched 822 chicks, 2nd hatch.

A. F. SCANAVINO, Manager.

Pittsfield, N. H., May 24, 1916.
We have just closed our hatching season with our Newtown Giant Incubator. Got an average of 66 per cent. hatches of all eggs put in machines hatching over 13,000 chicks. Am much pleased with the turner. It is a great labor-saver. The chicks are well hatched, coming out large and strong. The Newtown products are O.K., and your dealings are on A. N. PEASLEE & SON.

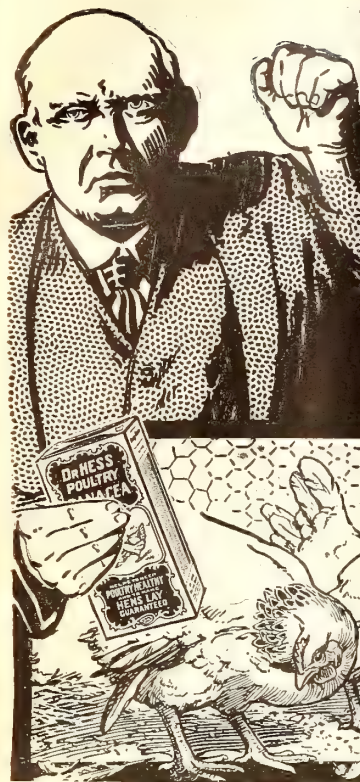
Gossville, N. H., May 27, 1916.
Am very much pleased with my 1800-egg Newtown Giant Incubator. My last hatch averaged 75 per cent. The ease and accuracy with which it runs far exceeds my expectations. K. F. RAND.

Box 92, Wyckoff, N. J., May 12, 1916.
The 1200-egg Giant Incubator purchased at Madison Square Garden is certainly a labor-saver for the busy poultryman. About fifteen minutes each day is all the time it requires and it brings out the finest chicks I ever saw. The Electric Alarm is a big feature but my machine has maintained such an even temperature that the Alarm has never been sounded. TEMPEL'S POULTRY FARM.

Huntington, L. I., N. Y., May 15, 1916.
The 1800-egg Newtown Giant Incubator has given perfect satisfaction. Our hatches have averaged about 80 per cent. all season and all were strong chicks. The machine is very easy to operate on account of the Automatic controls and the Automatic Eggs Turner is perfect. It saves time and turns the eggs thoroughly. The machine is all you claim it to be. BREEZY LAWN FARM, Henry Hung, Owner.

Our new booklet—“Proof of Efficiency”—and complete catalog are yours for the asking. Every earnest poultryman should have them. Better write for them NOW!

NEWTOWN GIANT INCUBATOR CORPORATION
21 Warsaw Street, Harrisonburg, Virginia



Moulting Hens

need a tonic to condition and strengthen them in this weakening period. Hurry the moult, get your hens back to laying quickly by using

Dr. Hess Poultry PAN-A-CE-A

It tones up the dormant egg organs and gives vitality and strength.

So sure am I that Dr. Hess Poultry Pan-a-ce-a will help to make your poultry healthy, strengthen them during the moult and make them lay, that I have told my dealer in your town to supply you with enough for your flock, and if it doesn't do as I claim, return the empty package and get your money back.

1 1/2 lbs., 25c; 5 lbs., 60c; 12 lbs., \$1.25; 25-lb. pail, \$2.50
(Except in Canada and the far West)

For book on Poultry Culture, address
DR. HESS & CLARK, Ashland, Ohio

the results obtained with them, to those from the pen of "Whites" which were given the *advantages* of a grass run, practically from the day-old stage.

I am unable to give the weights of these birds back to the time when they were hatched, as they were secured rather accidentally July fourth.

As we were on our way to a well known local breeder's plant to look over some stock in which we were interested, we noticed this flock of young Buff Rock chicks as they were roaming around in a sort of hit or miss fashion, in a field bordering the roadside.

Having been a back-lotter for the past few years, and having devoted considerable time to the problem of confined poultry-keeping, I was comparing the haphazard sort of way in which these little chaps were being brought up, to the kind of care which they should be getting in order to get the best out of them, when the owner, appearing from behind a coop, inquired how we liked them. A few questions brought out the facts that they were thoroughbreds somewhere between eight and ten weeks old, and had been hen-hatched from some



Showing coop with hinged curtain raised, lower curtain being entirely removed. See "Reader's Experience Department."

"STAND PAT"

WHICH

"PROGRESSIVE"



Stand Pat: Say Sis, You've Been Eating OCULUM

on your feed. Don't you know if you put Oculum on your food it will not give you time to sit down to lay?

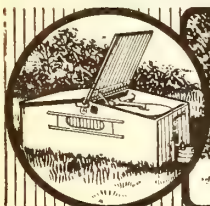
If you want time to play,
Stop using Oculum this very day.

Sprinkle ten drops of Oculum on each pound of feed and your hens will shell out the eggs. "My 800 fowls increased from 30 to 398 eggs a day after feeding Oculum 16 days."—Geo. Sisco, Mountain View, N. J. Trial bottle 10c, (240 feeds.) Booklet free. Handled by dealers. Address

OCULUM COMPANY

Box

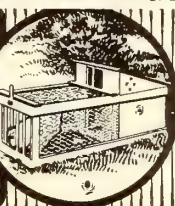
SALEM, VIRGINIA



Brooder for 50 to 100 chicks



No. 3 Poultry House for 60 hens—2 units



Setting Coop

HODGSON PORTABLE HOUSES

The various models of these houses are arranged after the most scientific methods of raising poultry. Years of experience have proved this. The brooder can be operated outdoors in zero weather. The poultry house is made in sections than can be quickly bolted together by anyone. The setting coop keeps a hen by herself while setting. All neatly painted. Send for illustrated catalog.

E. F. HODGSON COMPANY Room 332, 116 Washington St., Boston, Mass.
6 East Thirty-ninth Street, New York City

A Fancier's Pride in His Work

Year by year, as our business has grown, we have discovered new and better methods of breeding, mating, feeding and housing. The four factors that go towards making blue ribbon winners. We want you to know all about "Mirimichi Quality," about our wonderful winnings at the World's Fair, New York, Boston and other shows, so we have prepared a catalog that gives you an insight into our "Quality." S. C. Rhode Island Reds, White Rocks and White Wyandottes. This book is free, so write for it today.

Breeders of Birds that Win, Lay and Pay

MIRIMICHI POULTRY FARM

W. H. Saart, Box 100, FOXBORO, MASS.

Silver - CAMPINES - Golden

Young stock for sale, bred from our Panama Pacific winners. A few choice Pens of year old Breeding stock for sale cheap. **GENSEMER BROS., 161 MAIN ST., CRESTON, OHIO**

good stock, which he had secured the year before.

As near as we could gather, they had been turned into the field with the mother hen a day or two after hatching and with the exception of a daily meal of some commercial chick food, had been practically left to shift for themselves. He figured they might weigh around one to one and one-quarter pounds and a subsequent weighing a few days later proved this a good estimate.

Now at this time we had a vacant coop on our lot, so we opened negotiations, finally securing nine pullets at a rate of 75 cents each, with an agreement, that should any of them turn out to be cockerels later on, he was to exchange them for pullets. This turned out to be the case, for two of them, developing into cockerels, were exchanged late in August for the largest pullets left in his flock. When these two were placed among their sisters of the same age they weighed a half pound less than the smallest of our confined flock.

On the seventh of July the pullets were installed in their new home, an open front coop 8 feet long by 4 feet wide. This coop is of the shed roof type 5 feet 6 inches front and 4 feet 6 inches in back, with a dropping board running the full length of the back and placed two feet from the floor of the coop, with the roost running full length of the dropping board and five inches above it. Placed in this way the birds have plenty of room to get under in the day to scratch, while at night it leaves enough



1,000-Egg and 2,000-Egg Queen Incubators

The large-size Queens have all the features of quality, material and construction, and tested modern improvements, that have made Queen Incubators of smaller sizes the most successful incubators of medium price. Double walls and bottoms of California Redwood insure complete insulation.

The 1,000 and 2,000-egg Queens were successfully operated last winter in rooms of a temperature of 30 degrees above zero. They maintained a uniform heat on normal lamp flame without special attention.

New heater is double-walled and lined with five layers of asbestos. Drain cap to outside of heater. Lamp sets on safety shelf, enclosed in hanger.

All Large Queens 10% Oversize

2,000-Egg Queen

Price \$180

Size, 120 inches by 88 inches. Only half of machine may be operated if desired, as 1,000-egg machine.

1,500-Egg Queen

Price \$135

Size, 120 inches by 66 inches.

1,000-Egg Queen

Price \$95

Size, 120 inches by 35 inches.

Larger Percentage of Strong Chicks In Competition with 8 Others

C. D. Adams, Manager Poultry Show, Milwaukee Co. Experiment Association, Wauwatosa, Wis., wrote: "For three years we have been using a Queen Incubator and Brooder in our work here in competition with eight other makes. The older students often put the newer ones 'wise' as to the incubator to use in their work, and it is not uncommon for students to ask for the Queen. I frequently put my special matings in it, and I believe it has given a larger percentage of strong chicks than any other machine we have, and some cost double what it did."

We Have Already Sold

a considerable number of 1,000-egg and 2,000-egg Queens for this season's hatches—36 in Ohio alone, besides almost 100 in other parts of the country.

For the Poultryman who wishes to install new hatching equipment, the large-size Queens offer the greatest certainty of results at the least expense. Full information on request.

Queen Incubator Company

1037 No. 14th Street

Lincoln, Nebraska

Smaller Size Queens

75-Egg to 750-Egg

Have been sold for many years; approximately 100,000 of them being already in use. They are not the cheapest machines on the market, but they are built to produce high average hatches of sturdy chicks, and from what poultrymen and retailers tell us, we believe there is no incubator in the country that has as large a percentage of customer-friends as the Queen.

"Not a Single Complaint"

Chicago, Ill.

Queen Incubator Co.,
Lincoln, Nebr.

Gentlemen:—

During the many years you have been advertising Queen Incubators in the columns of American Poultry Journal, we have not, to the best of our recollection, received a single complaint from one of your customers.

Yours truly,

American Poultry Journal

Comfort Indoor Closet Odorless Sanitary Germ-Proof

Every home without sewerage needs one. Most convenient, meritorious home necessity in a century. A boon to sick people. Can be placed anywhere in house.

Makes Outdoor Privy Unnecessary

Put a warm Comfort Toilet in your home, a guarantee of healthy, sanitary conditions. Germ-life killed by chemicals in retort. Emptied once a month—no trouble. Needs no other attention. Boards of Health endorse it. Write now for literature, prices, etc. Agents Wanted—Exclusive territories.

COMFORT CHEMICAL CLOSET CO., TOLEDO, OHIO



SENT ON 30 DAYS
FREE Trial

Grand Quality Again this Year.
More and Better

Barred Plymouth Rocks and S. C. Brown Leghorns

sons and daughters of our Madison Square and Boston champions. A splendid lot of chicks grown right and from stock mated right.

GROVE HILL POULTRY YDS.
P. O. Box 555 Waltham, Mass.

Poultry Band Free



Patented September 1st, 1914

Send for a free leg band for that prize bird of yours. We will also give you a circular of the Bourne big numbered poultry band, having large numbers easily read from a distance. Especially recommended for trapezoid hens. State size wanted, Bantams, Leghorns, Rocks, Male or female. Band is made with black numbers from 1 to 300 on red, white, yellow, pink, cerise, green and light blue celluloid. Will stand weather and water. Price 3c each, \$2.50 a hundred. Send cash with order.

Bourne Mfg. Co., 231 Howard St., Melrose, Mass.

Fernbrook Farm White Wyandottes

Won at Buffalo and Boston, 1915 and 1916, and six other large shows. We are now selling our 1916 breeders at greatly reduced prices to make room for our hundreds of growing chicks. Mating list free.

FERNBROOK FARM

Arthur G. Bouck, Mgr.

Box A, Menands Road ALBANY, N. Y.

White Orpingtons

Our strain is noted for its heavy laying and prize winning qualities. Write for prices on exhibition and breeding birds. We have the quality you want.

CAIRNGORM FARM NOTTINGHAM, OHIO

Buff Plymouth Rocks S. C. White Leghorns

Eggs half price balance of the season
FRANK C. COLE, VAN WERT, OHIO

Tremper's Perfection Blue Barred Rocks

Eggs. Winners at World's Fair, Chicago, and Springfield. Catalogue free.

S. N. TREMPER, Lock Box 731, Sandwich, Ill.

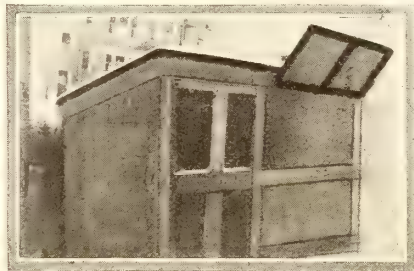
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above the roost for them to sleep in comfort.

Roof, back and sides of the coop are made up of good solid matched stuff, covered with a good quality of commercial roofing, making it absolutely tight and draft proof, while the front is entirely open, being protected only by the hinged muslin curtain as shown in Fig. 1.

This cover is exceedingly adaptable to varying weather conditions, being let down entirely on exceptionally cold nights, while, if partly lowered, it is efficient in protecting the inside of the coop from either rain, snow or excessively hot sunshine, without shutting out the air or light. This together with a second cloth cover, which is entirely removable and fits in the lower section of the front, as shown in Fig. 2, completes the front of a coop in which birds of both American and Mediterranean varieties have been kept for the past three winters with no severe cases of frostbite.

No litter is used, the earth floor being kept in a dry powdery condition thruout the year by reason of its being



Showing coop with hinged curtain partly lowered and bottom curtain in place in lower section. See "Reader's Experience Department."

well raked over each time the birds are fed scratch food. This method of giving them scratch food has been strictly adhered to ever since we have had them and consists principally of whole oats and cracked corn, raked in to a depth of six or eight inches. Fed in this way the birds are kept at work a greater part of the whole day and get fully as much exercise as they would if their feed were thrown out on an open run. Furthermore, they have the advantage of the open range flock at this time of the year, when they enjoy exactly the same conditions as regards fresh air, scratching and exercise that they do in the best of weather.

This scratch feed is raked into the coop bottom first thing each morning and again about an hour and a half before dark at night. Enough is fed at this time to ensure of some being left for them to scratch for in the morning before the attendant puts in an appearance. At noon they are given a wet mash made up of wheat, bran, cornmeal and ground oats, equal parts by measure, with one-half part of beef scraps. About once a week this is omitted and in its place is fed a supply of whole oats, which have been allowed to soak in water since morning.

The wheat bran is kept in open hoppers

Idealize YOUR Flock. Wellcome's Famous

"Ideal" TRAP NEST

Shows which hen laid the egg. Highest efficiency, least attention, lowest net cost. Write NOW for prices and proof.

F. O. WELLCOME, Box J, YARMOUTH, ME.

FREE Trial Offer on O-K Chicken Waterers

SANITARY — NON-FREEZABLE

The O-K increases egg yield. Prevents diseases and frozen wattles. Keeps water warm and sanitary in 40 degrees below zero weather and cool and sanitary on the hottest days. Lasts a lifetime. Will pay for itself in a short time. A real money-saver and time-saver for every chicken raiser. Inexpensive to operate. Easy to clean. Guaranteed. Made in seven sizes. Low in price.



We also manufacture a full line of guaranteed coops and feeders.

Write for full particulars and free trial offer.

PHILLIP BERNARD CO.,

2501 Floyd Ave., Sioux City, Iowa.

TENACRE

Exhibition Birds That Win! { S. C. WHITE } Utility Birds That Lay! { LEGHORNS }

Write for catalog and mating list.

Tenacre Poultry Farm

R. F. D. No. 3 - PRINCETON, N. J.

Ives' Langshans WHITE—BLACK

Champions of record for many years. Consistent winners at New York and Boston. Bargains in breeding stock NOW.

IVES, IVES & IVES GUILFORD, CONN.

Sears' Barred Plymouth Rocks

Are sure winners. Breeders for sale now. Howard O. Sears, L. Box 6, Garden Prairie, Ill.

S. C. BUFF ORPINGTONS

Pens, Trios and Single Birds, both in old and young stock at rock-bottom prices for this month. Some very nice March hatched pullets and cockerels both in utility and show birds.

SUNSET POULTRY YARDS, C. E. Siegel, Prop., Olneyville, R. I.



"SIGNET" Aluminum Leg Band

Adjustable, lightest, neatest, best, stays on. Price, 12-15c, 25-20c, 50-35c, 100-60c. "Silver Tip" Pliers, 10c; 3c extra for postage. W. J. BALL - Salem, Ohio

Struble Buff Orpington Farm

Established in 1900: have won the Blue at the leading shows, including Madison Square Garden and Chicago, and they ship birds C. O. D. on approval. Nests said. Z. D. STRUBLE, Lock Box A, BASCOM, OHIO.

Mgr. and Licensed Judge of all Varieties since 1907.

WHITE LEGHORN EGGS

From pens headed by Chicago and St. Louis winners. Place your order today. Free catalog.

G. J. Gerber, Box 188, Dalton, Ohio

A. C. WILLIAMS, Ravenna, Ohio

Speckled Sussex and Buff Orpingtons

Dawdys' Dark Cornish

Eggs and stock all sold. Youngsters for Fall delivery. Real Cornish type.

Dawdy & Dawdy, Box M, Greenville, Ill.

S. and R. C. REDS

Eggs for Hatching

\$3.50 per 15. Also stock for sale.

W. A. MCCONNELL - Richmond, Ill.

Single Comb White Leghorns and White Wyandottes

Cleveland Winners. Stock for sale. Circular free. H. C. & C. W. SIXT WEST PARK, OHIO

Gassmann's White Orpingtons

Eggs for hatching from Chicago and Illinois State Fair Winners. Mating list free.

HENRY GASSMANN

502 S. Fair St.

Olney, Ill.

at all times, as the birds will not overeat of this feed and by reason of its bulky nature it has a tendency to expand the crops of the young pullets at this time, giving them a greater eating capacity, a thing which is quite essential to them later on if they are to become egg producers.

During the summer and early fall, the green food element is supplied by an abundance of fresh lawn clippings each day, just enough being cut at one time to supply their immediate needs. When this supply is cut off during the winter, its place is taken by sprouted oats and cabbage. The cabbage being usually hung up on a level with the birds' heads for them to pick as they require it.

Oyster shell and grit are fed to the pullets simply by keeping plenty of it raked into the bottom of the coop along with the scratch feed, the hens picking up what they need of this in the same manner that they would if on range.

Along toward the late fall the scratch grain was varied somewhat by means of adding a greater supply of cracked corn in their afternoon feed, the amount of corn in proportion to oats being gradually increased as the nights grew longer. The wet mash was also changed about this time by the addition of alfalfa, to help the sprouted oats and cabbage take the place of the lawn clippings when that began to run short. Again when the pullets began to lay a supply of gluten meal was added, this high protein product becoming particularly valuable at this time.

Under this system we have had no indications of sickness of any kind, the birds coming along finely from the time we first got them.

At the time the first egg was laid, the heaviest pullet weighed six and three-quarter pounds, with the others varying all the way down to six pounds, the smallest reaching that weight.

The first egg was laid December 16th, at which time we had had the birds just over five months, which with the age they were when we bought them brought them to about the normal age of seven and one-half months to the time of commencing to lay.

We have now as accurately as possible compared the conditions under which these birds were raised, with the normal White Rocks, including housing, feeding and methods of feeding, weights and the age at which egg laying commenced, and with the exception of the Range vs. Confinement question, the methods followed were almost identical but for a few minor differences. Therefore we now come to the subject of results, and while we cannot say how it will stand at the year's end, the following egg

1-lb. can
25c
3-lb. can
60c
(except in
Canada).



Rid Your Hens of Biting, Blood-Sucking Lice!

Hens that are pestered with lice soon quit laying. Day and night the torment goes on. Get rid of all lice, before real winter comes on, by sprinkling

Dr. Hess Instant Louse Killer

on fowls, in nests and dust baths, on roosts and about houses and runways. If your horses, cattle or hogs are lousy, dust or sprinkle into the hair. Dr. Hess Instant Louse Killer kills lice on all animals.

It comes in cans with perforated top—easy to use. The powder means quick death to lice, but is harmless to fowls and animals. Sold only by dealers and guaranteed.

You can buy it at my dealer's in your own town.

DR. HESS & CLARK
Ashland, Ohio

Note—Dr. Hess Instant Louse Killer also kills bugs on cucumber, squash and melon vines, cabbage worms and slugs on rose bushes.



Egg-o-hatch

A new invention by Geo. H. Lee
Maker of Lee's Lice Killer, Germozone, Egg-o-latum, etc.

Applied to eggs during incubation, it strengthens the chick and weakens the shell, so that at hatching time you have a strong chick and a weak shell instead of a weak chick and a hard, tough shell that causes so many to die just at hatching time. Also eliminates moisture troubles.

Egg-o-hatch means better hatches and stronger chicks

It is easily proven. Apply to half the eggs and run the other half as usual, then note results. Fifty test hatches gave average of 96 per cent for Egg-o-hatch eggs and 81 per cent for eggs not treated, right in the same machine. Last five summer hatches average 95 per cent and 67 per cent. For 5 cents to cover mailing, we will send one sample with full directions free, sufficient for 50 eggs. A full size package will run 600 or 700 eggs one hatch, or three 200 to 250-egg hatches. .50 cents postpaid, or at dealers.

GEO. H. LEE COMPANY, OMAHA, NEBRASKA

AMERICA'S GREATEST QUALITY SHOW.
POULTRY, PIGEONS, CATS, PET STOCK.

THE BOSTON SHOW
MECHANICS BUILDING
Jan. 9-13, 1917
Entries close Dec. 26, '16
For Premium List and Entry Blanks

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36 Bromfield Street, Boston, Mass.

CHAMPION BARRED ROCKS

Leading winners at Philadelphia, Chicago, Allentown, Hagerstown and other shows.
C. GUY MYERS **SIDDONSBURG, PA.**

WHITE LEGHORNS
"With The Lay Bred In Them"
FALL SALE—SPECIAL PRICES
Cocks—Were used in our own breeding pens. That's proof they are right.
Cockerels—Bred from generations of 200-egg record layers. Healthy, husky hustlers.
Hens—Selected from thousands of pullets because of quality, vigor and performance.
Pullets—Early-hatched, well-grown birds of great promise. All bred for business.
Buy early and save money.
Write today for prices and catalog.
SPRECHER BROS.
Box 44, Rohrerstown, Pa.



One installation, now being made, of

Blue Hen Mammoth Incubators

has a capacity three times as great as entire year's output of any other Mammoth factory.

You can start small

Greater capacity in less space

Automatic Egg Turner

"All-Year-Round" Hatcher

Catalog Free

While **Blue Hen Mammoths** are being installed in the *largest* hatcheries—on the other hand it is the great money-making machine for *smaller* producers. You can start as low as 800-egg capacity.

In a given space the **Blue Hen** gives you from one-sixth to *one and one-half times more capacity* than any other mammoth incubator.

Turns every egg throughout a **Blue Hen Mammoth** in *five seconds*—whether capacity is 800 or 20,000. The greatest time, labor and money-saving feature ever built into a mammoth incubator.

The **Blue Hen** does fine work in cold as well as mild weather. Splendid results, not just for one or two hatches but for the entire season.

Our fine new catalog explains in detail the sectional construction, positive automatic regulation of heat, air and moisture for each compartment and many other features that will interest you. Let us show you how easy it is to start, operate and increase with a **Blue Hen**.

DEALERS and farmer-agents can secure exceptional opportunity to represent us in unoccupied territory. Easy sales and good profits

assured on Blue Hen Mammoth Incubators, Blue Hen Lamp Incubators and the

On Blue Hen Colony Brooders alone, the sales by dealers and farmer-agents have been astounding.

Men without selling experience and dealers who never before sold brooders, have easily made many profitable sales by showing the Blue Hen Catalog to practical poultrymen.

Blue Hen Colony Brooder

Better than ever with the 1917 additions and improvements.

Yet sold at the same low price, possible only by increased demand and larger production.

Watson-Manufacturing Co.
Drawer 21
LANCASTER, PA.



Now is the time to get the facts—to investigate our selling proposition. The wide-awake man will get the choice territory and the big sales.

Wyckoff's S. C. W. Leghorns

Acknowledged Everywhere the World's Greatest Laying Strain—Unequaled in Standard Qualities.

REMEMBER that we are the **originators** and for thirty-five years specialty breeders of the justly celebrated **Wyckoff Strain of S. C. White Leghorns**—the most profitable strain of poultry in America today. Place your orders at headquarters and make no mistake.

We are now offering hundreds of fine

C. H. WYCKOFF & SON

yearling hens, yearling cocks and April, 1916, hatched free-range-reared cockerels and pullets, all a grand lot of birds that are sure to please. As the demand is very great, we advise that you place your order early. Send for catalog and testimonials from satisfied customers from all over the world.

Address,

AURORA, CAYUGA CO., N. Y.

BARGAIN SALE of WYANDOTTES, in Silver, Golden and White

I offer several hundred head of fine birds out of my matings at less than half price, either show birds or fine stock birds. Eggs now \$1.50 and \$2.50 per setting. Golden Sebright eggs at \$3.00 setting. Large circular. IRA C. KELLER Brookside Farm Box 75, PROSPECT, OHIO

ROSE AND SINGLE COMB RHODE ISLAND REDS

Are you going to show this season? Do you want to win? If so, buy your Reds from a breeder of experience. Never had better youngsters than this year. We will ship **anywhere on approval** upon the receipt of 40% of purchase money. Remember, I have no other breed. Write your wants.

RED TOP POULTRY FARM, John G. Spencer - Route 2 - SHARPSBURG, PA.

record for the first forty-five days of egg laying will show that the confined Buffs have a little something on their White friends to date.

I regret that the first dozen were not weighed as a dozen, simply because there was no thought at that time of comparing them with any other flock, but many of the eggs have been weighed individually on scales which are in daily use for chemical work and are necessarily very accurate, and they average from one and seven-eighths to two ounces each or twenty-two to twenty-four ounces per dozen. This is a conservative estimate, as many of the eggs go well over the two-ounce mark, but are only counted as two-ounce eggs.

The first dozen eggs were laid as follows:

Dec. 16—1 egg	Dec. 22—1 egg
Dec. 17—1 egg	Dec. 23—2 eggs
Dec. 18—None	Dec. 24—1 egg
Dec. 19—1 egg	Dec. 25—1 egg
Dec. 20—1 egg	Dec. 26—1 egg
Dec. 21—None	Dec. 27—2 eggs

Taking exactly the same number of days, twelve, as did the Whites.

The rest of the record is as follows:

Dec. 28—2 eggs	Jan. 14—3 eggs
Dec. 29—None	Jan. 15—4 eggs
Dec. 30—2 eggs	Jan. 16—5 eggs
Dec. 31—3 eggs	Jan. 17—3 eggs
Jan. 1—None	Jan. 18—5 eggs
Jan. 2—2 eggs	Jan. 19—4 eggs
Jan. 3—3 eggs	Jan. 20—4 eggs
Jan. 4—1 egg	Jan. 21—7 eggs
Jan. 5—3 eggs	Jan. 22—4 eggs
Jan. 6—1 egg	Jan. 23—5 eggs
Jan. 7—1 egg	Jan. 24—7 eggs
Jan. 8—4 eggs	Jan. 25—5 eggs
Jan. 9—3 eggs	Jan. 26—5 eggs
Jan. 10—3 eggs	Jan. 27—5 eggs
Jan. 11—3 eggs	Jan. 28—6 eggs
Jan. 12—3 eggs	Jan. 29—5 eggs
Jan. 13—5 eggs	

Making a total of one hundred and twenty-eight eggs for forty-five days, or an average of one egg per day better than the White pen.

Now the results of the pen comparing almost exactly with the experimental pen of Whites it appears that we may safely take the figures obtained from them as a guide for Rock development. The increased out-put of eggs credited to the Buffs, at this time of the year, resulting without doubt to the fact of their enjoying during the cold period, the same chance of natural scratching in earth, not litter, that they have in the laying season.

As the breeder of the Whites intends to keep a complete record of his pen for the entire season, it may be interesting to compare results further at the end of that time, and we shall indeed be pleased to do so.

Albert V. Geary.

New Bedford, Mass.

Abolish Your Trapnests

Read: You are wasting time, labor and expense with present trapnests. My system of individual recording renders them impractical, and I guarantee it to be 100 per cent efficient. You will soon be trapnesting; test my system, its efficiency has been verified at the Manitoba Agricultural College. It will cost you \$2.00, with no further expense.

R. R. HUGHES

Charleswood, Manitoba, Canada

SPECIAL SUMMER SALE

of Tom Barron's English S. C. White Leghorns. Cocks, \$3 to \$5. Hens \$2 to \$4. 3-months old cks. one-half the above price. Satisfaction guaranteed. M. H. WAUGH, 511 Loucks Ave., PEORIA, ILL.

STILES' COLORED Leg Bands

PROVIDE IDENTIFICATION

Identify birds as far as you can distinguish colors. Tell which are yearlings and which are two year olds without handling. Made in Red, White, Blue, Amber, Green, Black, Pink, Light Blue and Ruby. Mention variety when ordering.



ECONOMY BRAND—Single coil for adult fowls. 12 for 20c; 25-30c; 50-50c; 100-75c; 250 \$1.80; 500-\$3.50, postpaid.



ROYAL BRAND—Double coil for adult fowls. 12 for 20c; 25-35c; 50-60c; 100-\$1.00; 250-\$2.25; 500-\$4.00; Postpaid.



Bands For Growing Birds—(two sizes, state age) 12-15c; 25-25c; 50-40c; 100-75c; 250-\$1.75; 500-\$3.25; postpaid. **Baby Chick Bands** 25-20c; 50-35c; 100-50c; 250-\$1.25; 500-\$2.25; postpaid. **Favorite Poultry Punch**, for toe marking chicks, Price, 25 cents.



THE VICTOR BAND Has large printed numbers, bright and clear colors—Red, white, blue, green and yellow. Adjustable. Made of celluloid and aluminum. 12 for 35c; 25-65c; 50-\$1.25; 100-2.25; 200-\$4.00, postpaid.

ALUMINUM BANDS



THE CAPITAL BAND Has raised figures. Adjustable, strong, smooth edges. 12-15c; 25-25c; 50-40c; 100-65c; 250-\$1.50; 500-\$2.75; 1000-\$5.25.



THE FAVORITE BAND Made of heavy aluminum with smooth edges. Large raised numbers, locks with double clinches. Prices same as The Capital.

CHAS. L. STILES

232 N. Third St. COLUMBUS, OHIO

HURRY Your Pullets Along With BLUE RIBBON LAYING MASH



The High Protein Kind that makes them develop rapidly and get to laying size and condition before cold weather. This is only one of the famous

BLUE RIBBON POULTRY FEEDS

Send for our Feed Book and direct prices on our feeds.

GLOBE ELEVATOR CO.

25 Seneca St., Buffalo, N.Y.

Trethaway's Anthracite S.C.B. Minorcas

Every year for 25 years winners have been hatched from my eggs all over the country. Four of the best pens I ever put together. All headed by a yearling cock mated with hens. Eggs, \$5.00 per 13; \$9.00 per 26. I replace unfertile eggs.

ARTHUR TRETHAWAY, 45 Parrish St., Wilkes Barre, Pa.

Light Brahmas, Barred Rocks, Wyandottes, Toulouse and Chinese Geese, Muscovy and Indian Runner Ducks. Sales Bulletin No. 60 free on application.

CHAS. McCLAVE, Box 24, New London, Ohio

LANGE'S BUFF WYANDOTTES

The kind that win, lay and pay. Stock for sale. Eggs: \$2.00 for 15, and \$5.00 for 45.

J. G. Lange, 1187 Scotten Ave., Detroit, Mich.

WRITE FOR MOLTING SECRETS
PURINA MILLS - St. Louis, Mo.

NEW YORK STATE FAIR.

By P. K. WHITE.

To visit at New York State Fair reminds one of the Garden and Boston shows. Here you find most of the leading fanciers of the country, while it is true that a large number of them are not exhibitors, yet they find time to run down here and renew friendships for a day or two.

If memory serves me right, this seventy-sixth annual exhibition is not as large as in former years, yet I hear in every aisle that the quality is much better and in several classes stronger in numbers.

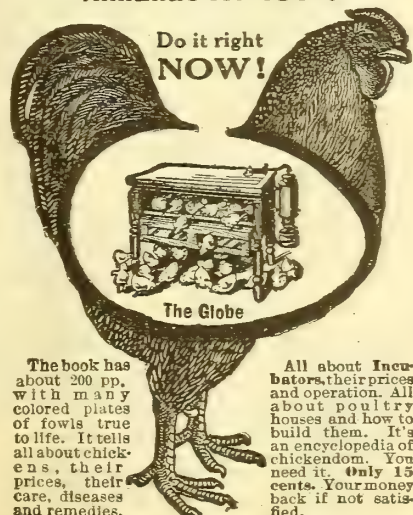
Advance notices gave the total entries at over 7,000, yet a very careful count shows that there were 2,709 single entries and 384 pens. This includes bantams, turkeys, ducks, geese, guineas and pheasants, making a total of 4,629. By adding the utility or "farm flocks" which are exhibited as a pen of nine females and one male, and the pigeons, of which there were 624, it gives a grand total of 5,703 birds entered.

Among the well known people who attended, yet did not exhibit, were Mr. and Mrs. D. W. Young, Mr. and Mrs. E. B. Thompson, Frank Platt, Chas. D. Cleveland, J. H. Drevensedt, "Jimmie" Glasgow, L. D. Howell, W. G. Minich, Geo. Weed, Irving Rice and a number of others whom I do not recall at this writing.

The honor for the largest number of birds entered goes to the S. C. Rhode Island Reds, of which there were a total of 149 birds; this includes the pens. Next is Buttercups, with 137. S. C. White Leghorns, 122; White Orpingtons, 119; R. C. Rhode Island Reds, 110; S. C. Anconas, 109; Silver Campines, 106; Buff Plymouth Rocks, 91; White Plymouth Rocks, 89, and White Wyandottes, 79. The fact of John S. Martin winning 1-2-3-4-5 cock bird in this last named class was the talk of the show, for the competition was very strong. The same is true with Fernbrook Farm, winning 1-2-3-4 pullet.

If one is to judge by what the old timers say, the "Silkies" had the best exhibit which has been seen in many days and in this connection it is only right that our readers be informed that W. B. Atherton, the well known Silkie breeder, of Randolph, Mass., had the

Shoemaker's Poultry Book and Almanac for 1916.



The book has about 200 pp. with many colored plates of fowls true to life. It tells all about chickens, their prices, their care, diseases and remedies.

All about Incubators, their prices and operation. All about poultry houses and how to build them. It's an encyclopedia of chickening. You need it. Only 15 cents. Your money back if not satisfied.

C. C. SHOEMAKER, Box 605, FREEPORT, ILL.

For Sale—Cheap

Mammoth incubators, all makes, capacity from 600 to 10,000 eggs; which have been replaced by Blue Hen Mammoth Incubators. Good condition guaranteed. Send for list; tell size and make you especially desire.

Watson Manufacturing Co.

Drawer 21

Lancaster, Pa.



Double-Quick Grain Sprouter

The Original, the Pioneer of all Sprouters. Cypress case outside, Metal grain chamber inside, heat flues between. Six sizes. — 1/4 bu. — 1/2 bu. — 3/4 bu. — 1 bu. — 1 1/2 bu. — 2 bu. — a few hens to 1,000.

Colfax

Metal Sprouter

Built in sections. Add sections as your flock increases. Write for complete information on **SPROUTED OATS and EGGS** to the oldest and largest sprouter factory in the U. S. Close-to-Nature Co., 38 Front St., Colfax, Iowa



Profit With Chickens

A sure income, pleasant work. Get Johnson's Book—the A B C of poultry profits; tells all.



OLD TRUSTY

Incubator. 650,000 in use. Long trial, small price, big hatches in any weather. Write for free book today.

M. M. Johnson Co., Clay Center, Neb.



Crown Bone Cutter



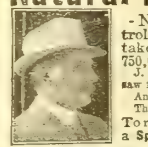
EASIEST run, Fastest Cutter, Strong, Substantial build. Bone scrap means more eggs, higher per centage fertility. Own a "Crown" Cutter and have fresh bone for every feed. Dry Bone, Grain and Shell Mills. Hand and Power sized. Free illus. catalogue. Est. 36 years. **WILSON BROS., Dept. 6 Easton, Pa.**



140 EGG INCUBATOR CHICK BROODER Both are made of Both \$10 Calif. Redwood. Incubator is covered with asbestos and galvanized iron; has triple walls, nursery, egg tester, thermometer, ready to use. 30 DAYS TRIAL—money back if not OK. Write for FREE Catalog Now.

IRONCLAD INCUBATOR CO., Dept. 49 Racine, Wis. (2)

Natural Hen Incubator \$3



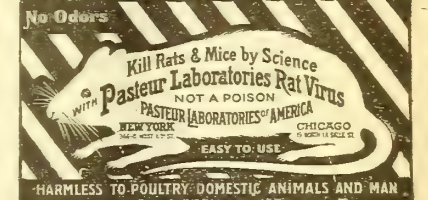
No freight to pay. Actual hen controls everything. No lamp, no costly mistakes. Best hatcher in the world Over 750,000 in use.

J. M. Park, Jr. writes: "It is the best thing I ever saw for hatching chicks."

Another: "I got 507 chicks from 640 untested eggs." Thousands of other testimonials. Agnes Wanted.

To reach the million mark in 1916 we will send you a Special Introductory Offer with our Free Catalog.

Natural Hen Incubator Co., Sta. H, Dept. 4, Los Angeles, Cal.



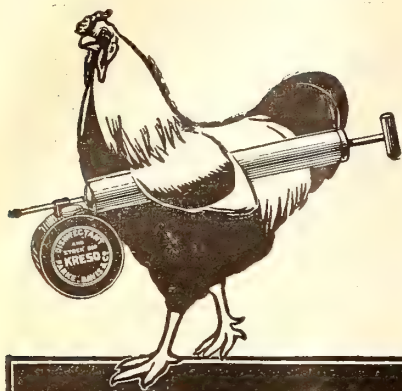
HENDERSON STRAIN

Barred Plym. Rocks

Have won at the leading shows of America for the last 20 years. If you want WINNERS get the Henderson Strain. Eggs from 40 pens containing the greatest Barred Rock breeders in America. Free catalog.

W. W. HENDERSON

Bridgeton, Mo.



KRESO DIP No. 1.

(Standardized)

DISINFECTANT. INSECTICIDE. GERMICIDE.

Kills lice and mites.

For treating all of the common diseases of poultry.

Prevents the spread of contagious diseases among poultry.

Kreso Dip No. 1 and a little effort will keep your poultry clean and healthy and increase your profits.

INEXPENSIVE. DEPENDABLE. EASY TO USE.

Will not harm poultry when used as directed.

For sale by all druggists.

We have a special FREE booklet on Diseases of Poultry. Write for one.

PARKE, DAVIS & COMPANY

Department of Animal Industry,

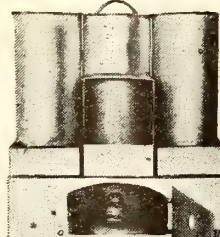
DETROIT, MICH.

Wendell's
SANITARY POULTRY SUPPLIES
INCUBATORS, BROODERS, NON-FREEZING FOUNTAINS, FEEDERS, OAT SPROUTERS AND 50 MORE LABOR SAVING ARTICLES FOR THE PRACTICAL POULTRY MAN
GET OUR BIG FREE BOOK ADDRESS

AN EGG IS 73% WATER

Your Hen
Must have warm water in the winter

This fountain will warm the water and keep the grain warm, it also will keep the frost out of a small sized hen house. We have FIRELESS FOUNTAINS that keep the water warm without a lamp, get our FREE BOOK HOW TO GET EGGS IN WINTER.



WENDELL INCUBATOR CO. HOLLY, MICH.

Hubbard's Peerless Buff Orpingtons will win for you at the fall and winter shows. Send for prices on guaranteed winners. Charles Hubbard, Mgr. Foxhurst Farm Box 52, Lime Rock, Conn.

White Cornish

MOUNTSVILLE FARMS - MOUNTVILLE, VA.
(See classified ad on another page)

misfortune to have the express company lose his best cock and hen bird, en route here. Another surprise of the show was the wonderful exhibit of Dark Cornish and Buttercups.

All in all, it was a very good show and in passing I want to say that it is held in the best fair building that there is in the country, none excepted.

Following is a list of the winnings of AMERICAN POULTRY JOURNAL advertisers:

Silas H. Andrews, 208 Second st., Mineola, N. Y., S. C. Orpingtons, 1 cock, 1-3 hen, 1 ckl, 1-2 plt, 1 pen.

W. B. Atherton, Randolph, Mass., Silkies, 3-4-5 cock, 2-3-4 hen, 5 ckl, 3 plt.

Rev. W. Berberich, Groton, N. Y., Blue Orpingtons, 3 cock, 2 pen; Silver Campines, 3-4 hen, 3 pen.

Geo. N. Barstow, Oneonta, N. Y., S. C. Anconas, 5 cock, 5 hen, 2 ckl, 2 pen; R. C. Anconas, 3 cock, 5 hen, 4 ckl, 3 plt.

H. W. & W. B. Deem, Eaton, Ohio, Buck-eyes, 1-2 cock, 1 hen, 1 ckl, 1 plt, 1 pen.

Fernbrook Farm, Menands, Rd., Albany, N. Y., White Wyandottes, 4 hen, 2 ckl, 1-2-3-4 plt, 2-3 pen; also 1st for best flock in American utility class and special for best flock all varieties.

John A. Gamewell, Little Silver, N. J., Golden Pencilled Hamburgs, all five ribbons in each class, except 3 pen, ckl, 1 hen, 5 plt.

Wm. Hobbs, mgr. Sunswick Farms, Plainfield, N. J., Dark Cornish, 1-2 cock, 1-2 ckl, 1 plt, 1 pen.

Houston & Hofius, South Charleston, Ohio, Red Sussex, 1-2 cock, 1-2 hen, 1-2 ckl, 1-2-3 plt, 1 pen; Light Sussex, 1 cock, 1-2 hen, 1-2-3 ckl, 1-2-3 plt, 1 pen.

Homestead Campine Farm, Wayland, Mass., Silver Campines, 1-2 cock, 2-5 hen, 1-2 ckl, 2-3-4 plt, 1-2 pen.

H. B. Hark, Glendale, Ohio, Silkies, 2-3 ckl, 1-5 plt, 2 pen.

Morris Poultry Farm, Lebanon, Ohio, S. C. White Orpingtons, 1 cock, 1-2 hen, 1-5 ckl, 2 plt, 2 pen.

Owen Farms, Vineyard Haven, Mass., White Plymouth Rocks, 1-2-3 cock, 3 hen, 1-2-3 ckl, 1-2-4 plt, 1-2 pen; S. C. White Leghorns, 5 cock, 1-3 hen, 4-5 plt, 1-3 pen; S. C. Buff Orpingtons, 1-4-5 cock, 1-2 hen, 1-2-3 ckl, 1-3 plt, 1-2 pen; S. C. White Orpingtons, 2-5 cock, 3-4 hen, 3-5 plt, 2 pen.

Louis H. Perry, Clay, N. Y., Black Wyandottes, 3 cock; R. C. White Leghorns, 1-3 cock, 3 hen, 4 ckl, 4-5 pen.

Rawnsley-Shields Poultry Farm, Columbus, Ohio, Speckled Sussex, 1-3 cock, 1-2 hen, 1-2-4 ckl, 1-2 plt, 1-2 pen.

Sheffield Farm, Glendale, Ohio, Partridge Wyandottes, 1-3 cock, 1-2-3 hen, 1-2 ckl, 1-2-3 plt, 1-3-5 pen.

Wilburtha Poultry Farms, Trenton Junction, N. J., White Plymouth Rocks, 1-2-4 hen; Columbian Plymouth Rocks, 1 cock, 1 hen, 1-2-3 ckl, 1-3 plt, 1 pen; Columbian Wyandottes, 3-4 cock, 5 hen, 1-4 ckl, 1 plt, 1-2 pen.

WINNINGS OF OUR ADVERTISERS.

Chas. G. Pape, Fort Wayne, Ind., reports the following winnings on his S. C. Black Minorcas at the Interstate Live Stock Exposition, South Bend, Ind., September 12-15, 1916. 1-2-3 cock, 1-2-3-4 hen, 1-2-3 ckl, 1-2-3-4 plt, 1st old pen and 1st young pen, and the American Poultry Association gold medal for best cockerel in the show, all varieties competing.

At the Iowa State Fair, Des Moines, Ia., August 28 to September 2, 1916, "Premier" Partridge Wyandottes, bred and exhibited by Sheffield Farm, Glendale, O., won 1-2-3 cock, 1-2-3 ckl, 1-2-3 plt, 3 hen, 1-2 old pen, 1-2 young pen, \$50 sweepstakes cup for best male bird in the show.

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Six sizes, eight colors. 12 for 15c; 25 for 25c; 50 for 45c; 100 for 65c. Mention variety. Also Drinking Fountains and Feed Hoppers and Automatic Trap Nests. Get our catalog before buying.

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STOCK FOR SALE
MRS. L. R. BUELL, LAKE GENEVA, WIS.

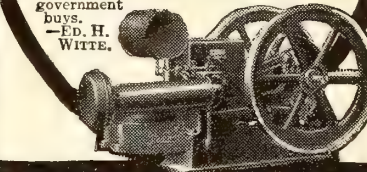
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F. M. EAKIN Box A BUCYRUS, O.

Questions and Answers

Conducted by
Prince F. Woods, M. D.

Standard for Leghorns and Minorcas.

Q. Kindly print the new Standard on S. C. White Leghorns and also S. C. Black Minorcas.

Kittery, Maine.

H. C. M.

A. We are sorry, but we cannot comply with your request. The Standards for these breeds are included in a copyrighted book, the American Standard of Perfection, published by the American Poultry Association. The price of the book is \$2.00 in cloth binding, or \$2.50 in leather binding, postpaid. Send your order to our book department.

We believe that the progressive development of every poultry interest could best be accomplished by making Standards for pure-bred poultry free and broadcasting the information to all who

are interested. Perhaps some day a majority of association members may see the light and view the matter in the same way, and then official information on pure breeds will be easier to get and a far greater number of people will become interested in more and better poultry.

Stocking a Market Poultry Plant.

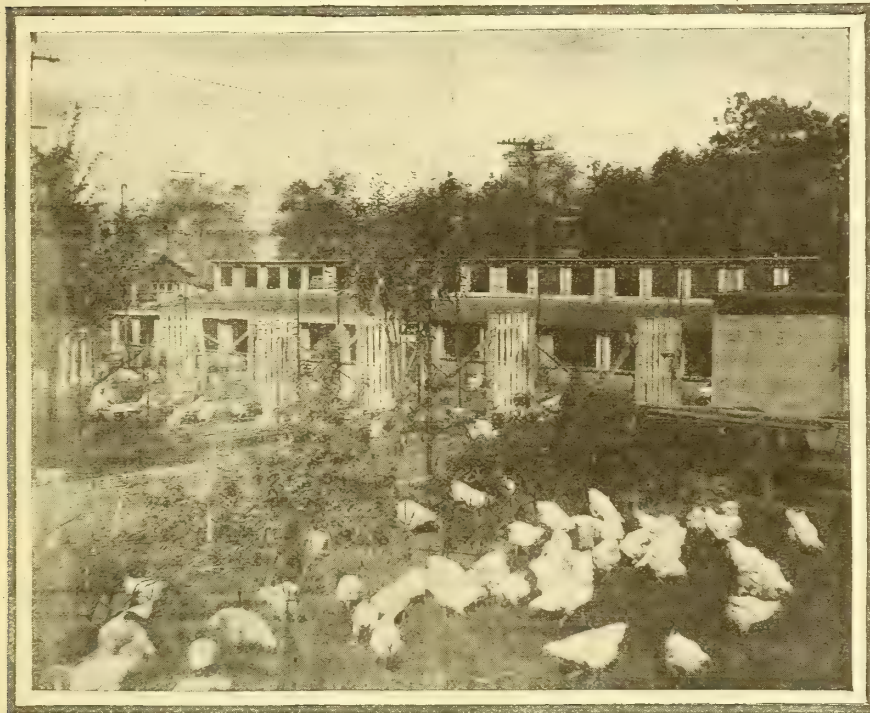
Q. I am going on a 20-acre fruit and chicken farm, north of Des Moines, and want to raise chickens for commercial purposes only. From reading poultry magazines I had about made up my mind to use White Leghorns, altho I have been raising Rhode Island Reds. I want a chicken that combines both good laying qualities and ability to round up into

shape rapidly for makert poultry. At present I do not care anything about the exhibition advantages of the fowls, altho I may later on.

Des Moines, Iowa.

T. L. H.

A. If you want just an egg farm—to produce white eggs—with broilers and fryers merely as a side line, you will probably find the Leghorns satisfactory. But if you intend to go in extensively for market poultry, the Leghorns will not suit you. The Reds make an excellent all round fowl, good producers of good sized, uniformly colored brown eggs and are easy to grow into good quality market chickens or fowls. Reds, however, do not as a rule take on fat or flesh as readily as some other breeds. In our experience with this very excel-



Partial view of yards and poultry plant of J. H. Powers, breeder of White Wyandottes, 7920 Bennett Ave., Chicago, Ill.

WHITE LEGHORNS	READ'S	WHITE LEGHORNS
258	Pedigreed Leghorns, Reds and Wyandottes	248
and	We have the Best High Rated Cocks and Cockerels	and
282	Hens and Pullets In America	288
OFFICIAL RECORDS	Be sure to write us before placing orders, stating your wants fully. Prices reasonable. WRITE TODAY	CYPHERS' RECORDS
RHODE ISLAND REDS	THE READ POULTRY FARM Watervliet, N.Y.	WH. WYANDOTTES
231		274
and		and
251		282
OFFICIAL RECORDS		OFFICIAL RECORDS

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Stock for sale at all times. Eggs in season.

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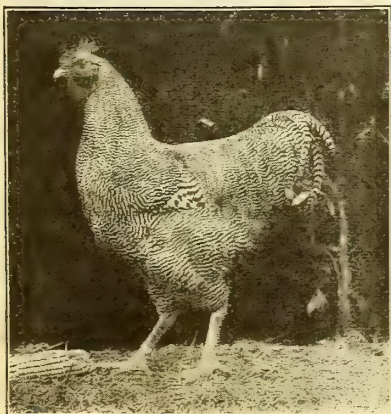
SENSATIONAL SWEEP OF VICTORIES

thruout all America last season—from Brooklyn, N. Y., to San Francisco, and from the great shows of Canada down to the Gulf—capturing **FIRST PRIZE** at such shows as Chicago, the World's Fair, Philadelphia, Norfolk, and scores of other shows. This is one of the most **Victorious Campaigns** ever made by any strain in a single season. This great record gives force and power to the thought that

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P. S.: This season the Aristocrats are even better than last year.



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that won trophy for winning
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Greatest as well as oldest winners in the mid-west today. If you need early fall winners or want breeding birds at bargain prices write us. We have them that we guarantee will please you. Our records show that for many years we have supplied the winners for nearly every large show in the country outside of the extreme east. Illustrated catalog free.
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Blue ribbon winners at San Francisco and both Chicago shows. Stock for sale.

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Bred to lay. Get our special prices on breeders and cockerels.

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Stock and eggs in season from these grand winter layers.

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Taylor's Wh. Wyandottes

Good breeders for sale cheap.

GEO. TAYLOR R. R. 11 URBANA, ILL.

lent variety, we have found that the Red chicken appears to have a "single track" scheme of development, that is, it seems to put all its energies into developing one thing at a time; when it grows frame, it grows mostly frame, and when it is feathering, it goes at it in the same whole-souled way. It is a more difficult chicken to keep development at highest point in all particulars than some other breeds. Also, for a market plant an all white fowl possesses many advantages. We have found that the White Plymouth Rocks and White Wyandottes make first-class all round development all over at all ages, and are generally plump and marketable at any age if properly cared for. We believe that of these two the Rock puts on flesh more easily, altho the Wyandotte stands up remarkably well under heavy forced feeding and is less liable to leg weakness than the Rock. Both flesh with about equal rapidity, but the 'Dotte has a tendency to harden in flesh a little earlier than the Rock, which latter holds its soft meatedness almost as long as an Asiatic breed. So far as egg production goes, you cannot make a mistake in selecting any good strain of any of the leading popular breeds, we have found them all to be about equal as good producers of eggs. Even tho you are not at present interested in exhibition quality, you will find it advisable to make your start with good pure-bred stock. Uniformity counts large in the production of good quality market poultry.

Land for Colony Poultry Farm.

Q. How much land would we require to keep about 2,000 layers in open-front colony houses and to raise about 4,000 chickens every spring; also to raise green food for winter feeding?

Toronto, Canada.

J. J. P.

A. We should want a farm of at least 20 or 30 acres. It is a mistake to start on too small a farm. You want room enough to alternate crops and poultry and to keep two cows, a horse and some other live stock, if you intend to get your living off a farm. We think that a 30-acre place is plenty small enough.

For the colony houses and yards for laying stock, you will need not less than 5 acres and it will be better if you can use twice that area, alternating crops and poultry year after year to keep the land sweet. The same holds true of the range for growing chickens. If you can

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The best of the season's hatch at \$1.50 each. Pure white, long bodies, low tails, small combs. Bred from my heavy layers. High egg record *yearling hens \$1.00.*

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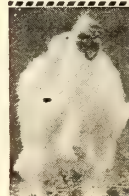
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Single Birds, \$5.00 to \$25.00

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Randolph - Massachusetts

divide up the farm into 5 acre fields and rotate crops and chickens you will get the best results all around.

Beginner's Questions.

Q. (1) What is natural color of White Plymouth Rock chicks when hatched?

A. (1) Generally smoky, but varies from a mixed slate color to canary yellow. The dark smoky chicks, if feet are yellow, usually make the whitest birds when grown.

Q. (2) I bought twelve Barred Rock chicks, two days old, all of which were black when received. They are quite big now and one of them is all white. What is the reason for this?

A. (2) It is not uncommon for white sports to result from light matings of Barred Rocks, your white chicken is a sport—a throwing back to white ancestor from which breed had origin. All baby Barred Rock chicks are black with light colored patches, which vary from slate to white and yellow.

Q. (3) I have a Rose Comb Rhode Island Red hen which was one year old this spring and her ear lobes are turning white. What is the cause of it?

A. (3) The ancestry of R. C. Reds is considerably mixed and it is not uncommon to have white appear in ear lobes of adult specimens.

Q. (4) Is slaked lime a good disinfectant to use on droppings boards?

A. (4) It is not. It sets free the ammonia in the droppings. Use either dry loam or ground gypsum (land plaster) as an absorbant on droppings boards.

Q. (5) How old should chickens be before they receive large sized grit?

A. (5) When they will weigh about 3 to 4 pounds each or heavier. Be guided by size and weight rather than age.

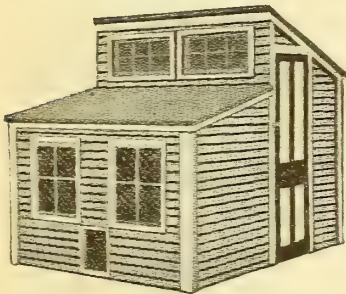
Q. (6) What is the Standard color of a Brown Leghorn's ear lobe?

A. (6) White or creamy white.

Q. (7) Could they be a different color?

A. (7) They frequently are, but off

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Champion Gladstone Strain

S. C. Rhode Island Reds

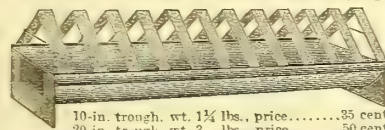
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White Leghorns

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White Wyandottes

Bargains in choice Young and Old Stock. Catalog Free.

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AMERICAN DOMINIQUE

Bred to lay and bred from birds which won blue ribbons at Boston, 1915, 1916. Write for prices. C. W. BESSE, JEFFERSON, MAINE

WHITE HOUDANS

Write me for prices on choice exhibition and breeding stock. Mention American Poultry Journal.

M. L. STARKS, Dept. A, STARKS, WIS.

Black Langshan Winners

Nearly a clean sweep at Wisconsin State Fair, Sept., 1916. Grand young stock for sale. Write today. GEO. COOKE, Route 1, RACINE, WIS.

color is a defect. More than one-third red to surface of ear lobe disqualifies in cockerels and pullets.

Q. (8) How many fowls would you advise a beginner to start with?

Lynn, Mass.

J. H. S.

A. (8) That depends on what you keep poultry for, the time you can give to them and the accommodations you have for them. For back yard flocks one or two dozen is plenty. Where you have the room, the time and the inclination, you may as well start with and learn to manage flocks of 100 or more as to start smaller. Successful handling of 100 or more in one flock is a very different matter from taking care of a dozen or fifteen birds in a back lot pen. In any case it all depends upon yourself and what you are keeping poultry for. Simply start with the size flock you intend to keep and learn to manage it for best results. Better select one breed only and stick to that. When you have learned to successfully manage the one flock of your original selection, it will be time enough to add more flocks of the same or similar size. If you intend to go into exhibition quality instead of just useful eggs and meat production, you will find it necessary to use small flock matings. For such a start a well mated pair or trio is frequently sufficient.

Information Wanted.

Q. I am thinking of going into the poultry raising business and as I have no experience in that line, I am looking for information. I desire to get in touch with some one or some firm that will give me instruction right from the start.

Martin, Tenn.

J. C.

A. All of the leading agricultural colleges now conduct short courses in poultry husbandry. If a correspondence course appeals to you, there are several correspondence schools in poultry husbandry that use our advertising columns. You will obtain a good deal of useful and practical information thru the poultry journals and various poultry books. But in the final accounting you will have to get out and do actual poultry work with the birds. Experience; practical, every day, working experience is necessary if you are to succeed.

Picking Up Layers.

Q. (1) I am now picking up a lot of pullets, White Leghorns, to use as layers. Is it possible, in a general way, to tell a good layer from a poor layer by any sort of physical examination? On either side of the vent is a sharp bone. As I understand it these are the pelvic bones and I have been told that where these are wide apart it denotes a heavy layer and where close together—a narrow opening—it indicates a poor layer. Is there anything in this? I don't want to carry any more "boarders" than I can help.

A. (1) No one "sign" alone is par-

John Schabell's Single Comb

White Leghorns

Breeding hens and cockerels, May hatch. All breeders trap-nested.

JOHN J. SCHABELL

3331 W. Cuyler Avenue Chicago, Illinois

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Meadowlawn Poultry Yards, Dept. C. D., Sand Creek, Mich.

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and make more PROFIT from your POULTRY.

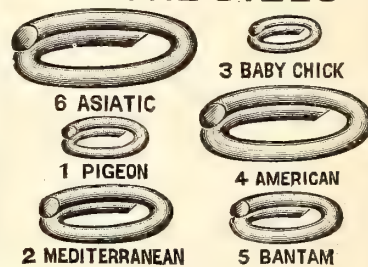
These light-weight, fadeless-colored, easily attached leg bands help most of the largest poultry raisers in the country to breed better poultry, make more profit.

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No. 2, 4, 5 and 6—12, 15c; 25, 30c; 50, 50c; 100, 75c. No. 1 and 3—12, 10c; 25, 20c; 50, 35c; 100, 50c. Special prices on larger quantities.

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Regal Barred Plymouth Rocks, White Leghorns, White Wyandottes, Anconas, S. C. R. I. Reds, Campines, S. C. Wyandottes. Stock and Eggs in Season.

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Now is the time to place your orders for early 1917 deliveries. Catalog and price list free. 20th CENTURY HATCHERY, Box 17, New Washington, Ohio

White and Partridge Rocks

Eggs for hatching from World's Fair and Chicago winners. Prices reasonable. Write at once. P. J. OLLE, Route 4, RACINE, WIS.

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ticularly trustworthy in picking the layers. The pelvic bone sign is of value chiefly as an aid in telling if the hen is actually laying, but does not indicate her ability as a layer. If the bones have flexibility and are well apart, the bird is usually in lay. It takes experience to select the layers, but it is difficult to tell just how it is done, altho some people become very skillful in making such selection. In general it may be said that the selection of a layer may be accomplished by sizing up all her good points as a group or collection of signs. She will be in good condition—good order—that is, healthy, fat, but not overfat; comb bright and clean; face, wattles and nose clean and in good color; eyes rather prominent, bright and clear and pupils equally dilated; plumage smooth and in good order; body plump and well filled out; abdomen firm and full but not too much bagged down; crop well filled and firm, not slack and watery,—in fact the usual indications of health, vigor and good condition. Medium comb and wattles for the variety preferred over coarseness of these points. Add to this elasticity and good separation of pelvic bones; activity of the bird and a disposition to be first off the roost in the morning and last on the roost at night and you will generally have a good layer—for almost any healthy, active, vigorous, normal hen will prove a good layer if properly fed and cared for.

Q. (2) I have some nice large pullets, hatched last February, and I would like to know if it would do to breed from these the coming season, say beginning in January? Or would it be wiser to procure yearling hens? I have no suitable breeding stock of my own except these pullets.

Strasburg, Va.

W. D. M.

A. (2) Select the best of them and breed them to good vigorous yearling males.

Feeding—Feeders—Weight of Chicks.

Q. (1) I have a small bare yard that has plenty of shade. I raise poultry as a hobby, but try to make them pay. My breed is White Wyandottes. I feed commercial scratch grain and a commercial mash with meat. Mash in hoppers all the time, but give a moist mash on cold days. They get all the charcoal, grit and shells that they will eat. Is this ration all right or should they get more meat and greens?

A. (1) Would supply all the greens they will clean up daily in summer and in winter would give sprouted oats and vegetables—one good feed a day. Do not know the proportion of meat in your mash, but with most commercial mashes it will do no harm to add 5 per cent more meat scrap.

Q. (2) Are automatic feeders all right for scratch grain?

A. (2) We like and use them.

Q. (3) I have 12 pullets about four

IMPERIAL BUFF WYANDOTTES

Young and Old Stock For Sale.
Write your wants.

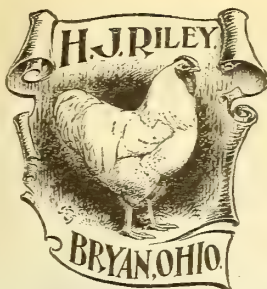
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Breeding and exhibition stock at reasonable prices
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Ralph Woodward, Box 200, Grafton, Mass.
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are the kind you want. Winners at Chicago, Toledo and Ohio State Fair. They are bred right, they look right and are right. Can please in breeding and exhibition birds. A fine lot of Cockerels and Pullets from \$3 up, also Cocks and Hens for sale. Write your wants and for catalog. Will surprise you in quality and price. Satisfaction guaranteed.

H. J. RILEY

Box A

Bryan, Ohio

"Premier" Partridge Wyandottes

For Utility and Beauty. Fine Winter Layers.

If you want to win at the Fall and Winter Shows write us at once. Our "Premiers" win the majority of prizes wherever shown. Young stock of unexcelled quality now ready for you. Interesting illustrated Partridge Wyandotte Book free. Send for it.

SHEFFIELD FARM,

H. B. HARK, Mgr. Poultry Dept.

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What's a CAPON and Why?

64 Page 6 x 9 inch BOOK that explains everything you will ever want to know about CAPONS. 50 pictures from life that show each step in the operation. List of Capon Dealers' addresses. Tells how to prevent "Slips," where to get the best and cheapest capon tools. Capons are immense eating. Big profits realized. Get wise. This book tells how. Copyrighted new and revised 1916, 5th edition. Regular 50c copy, prepaid to your address (a short time only), for a Dime in coin or stamps.

GEORGE BEUOY

R. R. No. 7

CEDAR VALE, KANS.

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Winter Laying Leghorns

AND MAKE SOME MONEY?

Dr. Heasley's S. C. Buffs outlaid all Leghorns for January in Missouri Egg Contest—laid 40% above 200 for a customer—won Club Special on shape at World's Fair and Championship at Chicago Coliseum Show. We've proven our claims. Bred for Eggs but Fit to Show. Egg Bred Cockerels and Exhibition Stock now.

DR. L. E. HEASLEY

Box A

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Orchard Farm Reds

We have a grand lot of exhibition birds, both old and young; ready to show now. Write at once.

ORCHARD FARM

NOROTON HEIGHTS, CONN.

THE ROCKWOOD FARM, Box 1110, Norwalk, O.

Where Rainbow Partridge Plymouth Rocks are bred

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Winners, Boston, Chicago, Atlanta, Montgomery, Cleveland, Madison Sq. Garden and Panama-Pacific Exposition.

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WON AT BOSTON 1916

1st Cock; 1st Cockerel; 1st Pen; 1st and 2d Hen; 2d and 3d Pullet. Book order now for winter shows. Have the quality that can win for you. Write for prices. Catalog free.

J. W. ANDREWS

Box A

DIGHTON, MASS.

Single Comb White Leghorns

We have purchased the Applegrove Poultry Farm, formerly owned by W. B. Tyrrell, Delavan, Wis.

The stock includes QUEEN (263), Basket Bess (260) and several other 200-plus birds. We still have some dandy cockerels at attractive prices for Oct. and Nov. Write for particulars.
TILDEN POULTRY FARM DELAVAN, WIS.

Spangled WYANDOTTES AND LEGHORNS

Get your show winners now. Will sell my entire flock of Leghorns to the right man.
L. COOK, Originator OAKVILLE, IOWA

Keeler's Wh. Wyandottes

The Aristocrats of the White Wyandotte World

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YOU will be treating yourself right and serving your own best interests if, before buying White Wyandottes, you write me fully TELLING ME YOUR WANTS. I have by far the finest and largest lot that I ever reared, birds that will be THE WINNERS at America's best shows this Fall and Winter as their ancestors have been for the past twenty-one years.

The World's Greatest Strain. The strain that produces satisfactory results in filling the egg basket, laying as high as 265 eggs a year and the prize winning females are selected from among the layers. Their fine head points, wonderful size and shape, pure white stay-white plumage, broad backs and well spread tails combined with their wonderful laying ability, their power of reproduction and their habit of winning first prizes are the results of twenty-one years of careful, systematic, pedigreed line breeding. The result of my twenty-one years of experience I am offering you at remarkably low prices—quality of birds and breeding considered.

2000 BIRDS FOR SALE, 2000

Females \$5.00 to \$25.00. Males \$5.00 to \$35.00. A limited number, extra choice of the very best breeding, \$30.00 each. Breeding pens, \$20.00, \$25.00 and \$35.00. Show pens, \$50.00, \$75.00 and \$100. I have no cheap birds—nothing but the best, so please do not write me for any \$2.00 and \$3.00 birds.

If you wish to win I can help you. If you wish to breed winners I will mate the birds correctly to produce them. Buy your breeders early. Reserve your show birds NOW for the Fall and Winter shows. All stock shipped on 48 hours approval. New richly illustrated art catalog free for the asking. (5 red stamps appreciated.) SEND FOR IT NOW. It tells the story of my success and may help you to succeed. State wants definitely and address

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The Keeler Type is the Winning Type

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OF ALL THE

ORPINGTONS

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PLAINS, N. J.

As we made all the Orpingtons it is natural that we are recognized headquarters for the best, all varieties. Over 15,000 first prizes won by us. Established 1873, means that for 43 years we have been giving satisfaction, a convincing conclusion where to place your next order.

Send for our new annual CATALOG, giving origination of all the Orpingtons and hints on poultry keeping. Several thousand stock birds for sale. Ornamental land and water fowls for sale.



290 EGGS
IN ONE YEAR

Mapleside Bred-to-Lay Barred Plym. Rocks

ACKNOWLEDGE NO SUPERIORS AS LAYERS

I have about 2,000 of 1916 hatch stock from ancestry up to 297 egg record hens. Also 100 pedigreed cocks and hens at special prices. Circular of FACTS Free.

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Box F - - - LINCOLN, ILLINOIS



"ARISTOCRAT" SILVER WYANDOTTES

Better this season than ever before. Choice Exhibition Birds,
Selected Breeders and Utility Stock. Write me your wants.

FRANK FAHA, JR.

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200 TO 249 EGG TRAP-NEST STOCK (Raised in the Green Mountains of old Vermont) 12 to 14 weeks old pullets and cockerels, also March and April hatched ones, YEARLING HENS and COCK BIRDS, all pedigreed trap-nest stock, bred to lay and pay for you and for me, and they do this all over the globe. DON'T GO IT HIT OR MISS. Get some of this best of all stock and know what you're doing. I offer yearlings at \$2 and \$3, regular \$5 and upward values; \$10 cock birds at \$5 and less, out of 200 to 249-egg hens; pullets \$1 to \$3, as to age and breeding; cockerels \$3 to \$10, as to hens they are out of. There is a booming old time a-coming for poultrymen. Market hens are 23 cents alive, eggs are 48 cents per dozen wholesale, and broilers selling for 27 cents alive—that's what they are in my home market. Get the stock that will put you ahead. This is it. Barred, White and Buff Rocks, R. I. Reds, Wyandottes, Orpingtons and Leghorns. Catalog to those interested. Write me today. SUNNYSIDE POULTRY FARM, BOX 1002, BRISTOL, VERMONT.

MINORCAS Giant S. C. BLACKS

Again prove their superiority. A sweeping victory at Ohio and Indiana State Fairs. Mediterranean special for best pullet in Ohio Show. Buy a \$10.00 cockerel now that would cost you \$20 to \$25 next December. Good breeders \$3 up, from a strain that does win and produce. JOHN L. BROWN, 1515 W. 14th St., Anderson, Ind.

White Wyandotte Farms

are selling large, stylish, broad backed and heavy boned cockerels at low prices.
OSCAR L. BOCK - - - Route No. 2 - - - COUNCIL BLUFFS, IOWA

months old and they average 2½ pounds each. Is that heavy enough?

A. (3) They should average from a pound to a pound and a half heavier at that age.

Q. (4) How many birds would a house 8x6 ft. hold?

A. (4) 12 to 15 fowls.

Q. (5) How many to a house 5x12 feet?

A. (5) 15 to 20 if an open-front house.

Q. (6) Do you approve of "O. K. poultry litter?"

A. (6) We have never used it. Those who use it report favorably.

Q. (7) Do you recommend trap-nests?

A. (7) Yes, see article in this issue.

Q. (8) I intend to use one male to eight females, is that all right?

A. (8) Yes.

Q. (9) How soon would you pen the twelve pullets?

A. (9) All pullets should be penned or housed this month.

Q. (10) At what age will White Wyandotte pullets lay?

Wilmington, Del. H. D. P.

A. (10) At seven months if conditions are favorable.

Fish Tail Combs—Mating Young.

Q. (1) I have two Buff Leghorn cockerels, both very good birds, except that the blades of combs are forked like a fish tail. The combs are otherwise good, large, well shaped and with good points. Would you breed them?

A. (1) Comb defects are difficult to eradicate. Would prefer to secure males without such defects. It is difficult enough to get good combs and is unwise to breed specimens having decidedly defective ones.

Q. (2) I also have some good pullets of April hatch. Would it be advisable to mate them with cockerels of same age? They are unrelated.

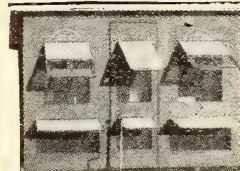
A. (2) We would prefer to secure a good yearling male of same strain as pullets, out of same sire if possible, and mate him to the pullets. If the pullets have a good sire and he is available, mate them back to him, providing the birds are all healthy and do not possess the same or similar defects.

Q. (3) Have a 4-year-old cock apparently in good condition. He is an exceptionally good one and I would like to use him the coming season. How many pullets would you mate with him? Okeene, Okla. C. H. H.

A. (3) From four to six of your best ones; pullets of his own line if you have them.

Broilers and Fryers.

Q. (1) This winter I am going to make a specialty of broilers and fryers. Can you tell me what kind to hatch and grow for best results? I want just one kind and prefer the white varieties of



DOUBLE DECK HEN HOUSE

Two Floors and
Roosting Gallery

Handy as a Kitchen Cabinet

Section of floor re-

cedes as you enter

and returns as you

leave, thus allowing you to work inside but giving

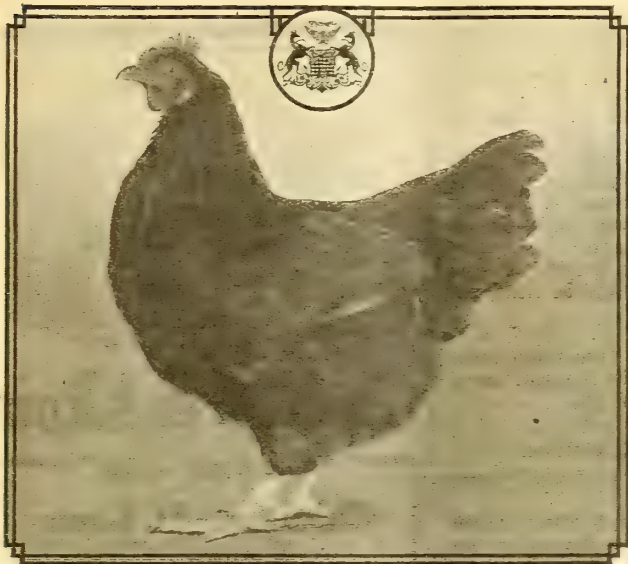
the hens two full floors when you are out. Ground

floor open air scratch shed and middle floor for

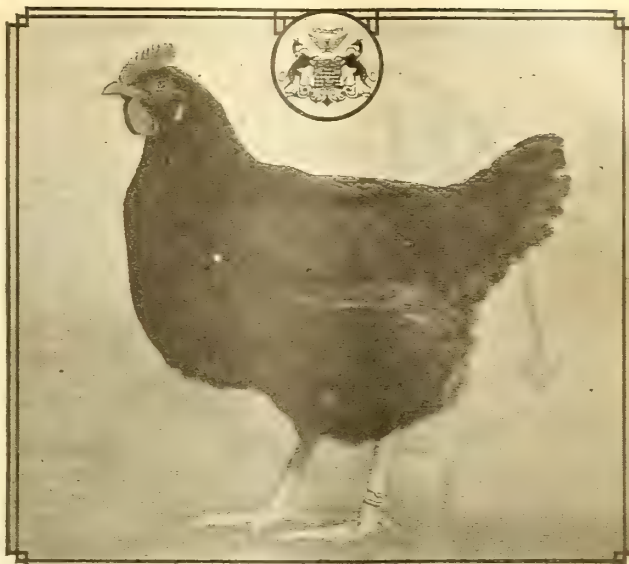
feed nests, etc. Built for eggs. Fresh air principle.

Shipped knocked down at very low freight rates.

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First Red Sussex hen at Madison Square Garden, New York and Coliseum Show, Chicago. Owned by Houston & Hofius, South Charleston, Ohio.



Champion Red Sussex pullet at Madison Square Garden, 1915-1916. Bred and owned by Houston & Hofius, South Charleston, Ohio.



VALUABLE CUPS AND TROPHIES WON BY G. A. WALKER, POLO, ILL.

The above is a portion of the many valuable special premiums and cups won by the Barred Rocks bred and shown by the veteran in this variety, G. A. Walker, Polo, Ill., who has made a specialty of this breed for many years. He has always been very much in evidence in the winnings at such shows as Illinois State Show and Chicago Coliseum Show.

Official Authentic WORLD'S RECORD, 1675 EGGS—Six Hens—One Year

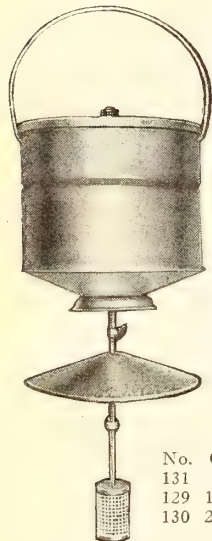
Average, 279 per hen, at the Bendigo, Australian Government Contest. Direct importation. Only ONE world's record. Investigate. Australian 279 (average) strain Cockerels—April hatch, \$10; May, \$5; June, \$3. Remember "the Cock is more than half of the pen"—and get the VERY BEST. White Ranch, at South Haven, Mich.

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only
\$120

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10 Quarts
The Original



The original "Kant Klog" automatic feeder; feeds anything from millet seed to whole corn, either mixed or separate. Swinging pendulum motion — absolutely adjustable — simply impossible to clog.

Birds peck at grain in bait carrier, swinging pendulum and grain drops from cup under hopper to deflector and then on ground.

No.	Capacity.	Retail Price.	Our Net Price.
131	6-qt.....	\$1.50	\$1.20
129	10-qt.....	2.00	1.60
130	20-qt.....	2.50	2.00

Send for complete catalog of fountains, trapnests, feather brooders and other poultry appliances.

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Have you read the

Poultry Doctor?

IF NOT, you should have a copy of this valuable booklet. Thousands of poultry people are following the instructions of the *Poultry Doctor*. This booklet contains sixteen different formulas of remedies for diseases common among fowls. It is yours free of charge. Just drop a postal with name and address to

The Licene Company

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Ideal Aluminum

LEG BANDS for POULTRY and PIGEONS

are the acknowledged leader. Firmest and most secure lock. GUARANTEED to stay on. Price, postpaid, 12 for 15c; 25-20c; 50-35c; 100-60c; 175-\$1.00; 200-\$1.10; 500-\$2.50. Price list and sample 2c.

COLORLED KEY RING LEG BANDS
12-15c; 25-30c; 50-50c; 100-70c.
250-\$1.70; 500-\$3.25. postpaid.

FRANK MYERS
BOX 40 - FREEPORT, ILL.

"GOLDEN ROD" Buff Orpingtons

all ready for the early fairs. January cockerels weighing 6 lbs., pullets 5 lbs. With color and type to burn. R. M. Seward, R. 15, Lewistown, Ill.

Wyandottes, Orpingtons or Plymouth Rocks.

A. (1) Any one of the three named should give satisfaction.

Q. (2) Is it true that it is difficult to get Wyandottes to hatch well?

A. (2) It is true of some strains, but not of all. Think the fault is chiefly due to using breeding stock that is not well matured and in not paying sufficient attention to health and vigor.

Q. (3) In the same length of time will the Wyandottes weigh as heavy as the Orpingtons?

Doulestown, Ohio. S. C. H.

A. (3) For broilers, fryers and small roasters, yes, if properly fed and cared for. For large roasters, no.

Miscellaneous Questions.

Q. (1) At what age should young chicks be taught to roost?

A. (1) When they are ready, which is usually when well feathered, or between two and three months old.

Q. (2) At what age can I begin to feed young chicks the ration used for breeders?

A. (2) When from six weeks to two months old.

Q. (3) How long does it take to hatch Pheasant eggs?

A. (3) 24 days.

Q. (4) Are the English Ringneck Pheasants good sitters and mothers?

A. (4) Probably as good as any if permitted to select their own nest in a secluded covert. A Cochon Bantam hen usually makes the best mother for hatching and rearing Pheasants. Silkies are also very good for this purpose.

Q. (5) I am planning to have a Pheasant preserve and to fence in about five acres of woodland and let my birds run wild. In winter I expect to shelter them with small straw and brush houses. I intend to let them hatch and rear their own young. What breed of Pheasants would you advise?

A. (5) We don't know, but believe that the common English Ringneck would give you as good results as any under such conditions.

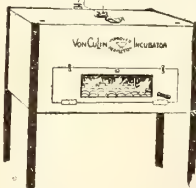
Q. (6) Can you give me description of a simple goose house to house about ten African geese?

Summit, N. J. J. G. W.

A. (6) All you require is an open-front house with enough overhang in front to keep out the worst of driving storms. It should be placed in a dry location so that floor can be kept dry. An inexpensive open-front building about 6x10 should be ample.

Hens for Egg Production.

Q. (1) What is the cheapest way in getting hens for egg production only, year by year.—(a) By buying pullets? (b) Buying year old hens? (c) Buying day-old chicks? (d) Buying hatching eggs? Of course, with eggs we have to



Von Culin Incubator

The oldest make on the market. The latest up-to-date incubator. Made of sheet metal. Double and packed walls. Light and compact. Equipped with Von Culin Fireproof Lamp. Thermometer slides thru door. Price to compete with inferior makes. Catalog free.

GEO. WATSON BEACH, Mfr.
Dept. 15, 126 Liberty St., New York

Andrews' Bk Orpingtons

Winners at Brooklyn and the Grand Central Palace, New York. I can furnish you with birds that win. Order eggs for hatching early. Prices reasonable. Silas H. Andrews, 208 2d St., Mineola, N. Y.



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Chicago—St. Louis —Kansas City

All you can seek in swift, silent, capable railroad service is yours on the Alton. Here you meet your railroad ideal.

Frequent trains, a threefold factor of safety, solicitous yet unobtrusive attendants, all combine to make you "at home," whenever or wherever you travel.

Just Ask

for information regarding that trip you may be thinking of.

H. K. McEVOY

General Agent Passenger Department
142 S. Clark St., Chicago, Ill.

WINNERS in all Egg-Laying Competitions

English 200-Egg Strain

S. C. White Leghorns White Wyandottes
S. C. Rhode Island Reds Buff Orpingtons

"World's Champion Layers"

Our Certified Contest Records are PROOF

Leghorns—Highest Award North American Egg-Laying Contest, five hens laying 1139 eggs, 100 pens competing. English cockerel sire hen with official average of 314 eggs.

Reds—Highest Award in their class, North American Contest, five hens laying 1043 eggs, 209 average.

Highest official Red record we know of. White Wyandottes, Missouri Contest, our ten laid 2006 eggs, one laying 265 eggs.

Write today for Free Book, "The Story of the 200-Egg Hen," full of valuable information.

THE PENNA. POULTRY FARM
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Use Rippley's

No. 200 Hot Water Heater

in greenhouses, garages, hog and poultry houses, small buildings. Price \$50.50, freight paid.

Louis J. L. Amoureux, Norton, Mass. says: "Your No. 200 Heater cared for our greenhouse, 76 x 14 x 9 feet, last winter at 23 below zero."

Mail orders direct. Write for circulars of heaters and steamers.

Ripley Mfg. & Steel Boat Co.
Box 4 Grafton, Illinois

SCHUMACHER

Scratch Grains **Chick Feed**

Rich in Protein and Carbohydrates — makes hens lay better. Contains Oatmeal — makes big, healthy, fast growing chicks.

THE QUAKER OATS CO. CHICAGO, U.S.A.

figure a lot of things into cost of incubation or with chicks for brooders and brooding; while with purchase of pullets each year the only equipment needed is the laying quarters. What I want to know is the cheapest way to get the layers.

A. (1) That is a pretty tall order. A great deal depends upon your location and facilities for buying good stock. In some localities it is cheaper to buy well developed pullets in the fall than it is to raise them. In others, it is less expensive to "farm out" your hatching eggs and buy back the pullets in the fall. If you are particular about the variety you keep, you may find it difficult to get a supply of layers of desired sort and probably the most dependable method would be to buy and rear baby chicks, if you do not wish to go to the trouble and expense of doing your own hatching. We often find it desirable to have a hatchery incubate our early eggs for us.

Q. (2) I want a good laying strain from a reliable breeder and would like to know what it will cost to buy say 250 layers each year.

A. (2) If you want them of a certain breeder, the best way would be to get his prices and, when you agree on terms, to make a contract with him to supply your needs. Good pullets are worth not less than 25 cents a pound live weight in the fall and frequently bring higher prices. If you go to a specialty breeder for your layers you will probably have to pay about \$3 each for them.

Q. (3) Take White Leghorns and Rhode Island Reds, which is the best to keep for egg production, figuring also what they will bring when sold to market? Here the heavy breed will sell at from two to three cents more per pound than Leghorns.

Hayward, Cal.

G. P.

A. (3) That is a matter which depends somewhat on your location and climate. Under favorable conditions both breeds are equally good as layers. With a warm climate the Leghorns would probably average better in yield. You could run the Leghorns thru three laying seasons with profit, while two laying seasons would be about the limit with the Reds for best results. In marketing, there would be much less depreciation on the Reds than on the Leghorns,—at least we find it so. Leghorn pullets here cost about the same in the fall as Reds, usually from 25 to 30 cents per pound alive. Leghorns as pullets run from three to four pounds and average to cost about 90 cents each. The Reds will go about 5 pounds each and average to cost about \$1.25 each. When ready to be "scrapped,"—sold to make room for new layers,—the Leghorns bring about 50 cents each on an average, selling at from 14 to 16 cents a pound alive; while the Reds have always brought us from 20 to 25 cents a pound alive as fowl and bring us in from \$1.20 to \$1.50 each.

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Appliances for the poultry **FACTORY TO CONSUMER.** yard are sold direct from Automatic Feeders, Feather Brooders, Sanitary Fountains, Trap Nests, Grit Boxes, Feed Hoppers, Exhibition Coops, Incubators, Feather Hovers, etc., **AT WHOLESALE PRICES.**

The Leg Band for Your Chickens
50 for 25c

Any Size
No's. 1 to 50

We want you to get acquainted with our useful poultry appliances and for this reason we are offering 50 self-locking rust-proof leg bands—embossed numbers, 1 to 50, at the special price of 25 cents. Postpaid. State variety you breed when ordering.
SIMPLEX SUPPLY HOUSE Pontiac Bldg. CHICAGO
SEND FOR COMPLETE CATALOGUE—WE SAVE YOU MONEY

Old Dutch

quickly and thoroughly cuts milk clots and scummy accumulations from milk pans and pails—No greasy film left on the article cleaned.



Rudy's Perfection Wh. Wyandottes



My strain is noted for its egg production and exhibition qualities. My customers all over the country laud my square deal business methods. I guarantee to give you extra good value for every dollar you pay me and if you are in the market for line bred birds I will be glad to tell you just what I have for sale. If you contemplate showing this season I can furnish you the quality that will win.

GEO. H. RUDY

Route 15 MATTOON, ILL.



1st Pen Male
SYRACUSE, 1915

The Famous Vigorous Strain HOMESTEAD SILVER CAMPINES

We have for sale, at very reasonable prices, many beautiful and vigorous birds, both males and females. We have a large stock of the finest youngsters coming along this year and naturally need the room and houses in order to care for these birds, therefore we are offering to the lover of Campines an excellent opportunity to purchase many of the breeders that have produced these wonderful youngsters and we trust you will accept the proposition and lose no happy day. Our new and beautiful 1916 catalog may interest you. Our young stock will be ready for shipment about September 1st, but do not overlook the parents, for among them are many remarkable prize winners. **Homestead Campine Farm, Box A, Wayland, Mass.**

S. C. BUFF ORPINGTONS

Birds at REDUCED PRICES. Place your order now for young stock and get the Central Palace, speak for quality. We guarantee satisfaction.

Old Forge Poultry Farm

Box A

Spring Grove, Pa.

LAYERS or SHOW BIRDS

We can supply you birds that cannot be excelled for type, color, or as egg producers. Our birds have free range on a 300 acre orchard, meaning sturdy, vigorous fowls; 265 trap-nests in operation, so we know what these birds will do. **Wh. Wyandottes and S. C. Wh. Leghorns.** Baby Chicks and Eggs for hatching.
Strains established 1906.

LAKEWOOD FARM, HOLLAND, MICHIGAN

OUT OF THE EAST

BY P. K. WHITE

Space in American Poultry Journal is based on the quality and quantity of circulation. The price may seem high as compared with other poultry publications, but those two words, **QUALITY** and **QUANTITY**, make it worth it. Our army of readers are buyers; they want advertised fowls, appliances, etc. They have been taught that the best things are advertised. If you appeal to them right, you will get their inquiries; if you give their inquiry prompt and careful attention you will get their business and when you do, give them full value for their money, or you will find the first order will be the last one. Advertising space properly used, as an investment that yields dividends. This has been proven.

D. J. White, of Wilkesburg, Pa., intends in the very near future to move to a larger place, as his business has outgrown his present home.

Just before going to Cleveland, Mr. Bell and I returned from a fishing trip and I only wish that Wisconsin laws were such that I could have sent all my friends a box of fish. We were at a lake about fifty miles from Duluth, where it was 98 in the shade, every day for two weeks. While there we had the pleasure of witnessing a band of forty Indians give some real Indian dances. They were Chippewas, headed by Chief Cloud, and their dances were in full raiment, paint, beads, feathers and all. It is a sight one seldom can see and very interesting. Had a long talk with the Chief and found that he is a breeder of Barred Rocks.

It pays to advertise. In July issue I mentioned the fact that J. W. Bowman, owner of Rock Ledge Farm, Southboro, Mass., was a bachelor. Just in receipt of a letter from his manager, Mr. Walker, informing me that congratulations are in order. Some writer once said that the sweetest thing in life was a couple who, after fifty years of wedded life, were still sweethearts. Well, J. W., those are my wishes to you and Mrs. Bowman — "May you always be sweethearts." Your turn next, Brother Fay.

Fools look at the present, wise men look ahead. Plan your winter advertising campaign now.

Back where I was raised there was a young Irish chap who had a good expression which he always used whenever everything went just right. This expression was, "some system." This expression, I feel sure, will

prevail after the coming election of the officers of the National S. C. White Leghorn Club, for the fact that numerous friends of that grand old chap, Mr. Chas. J. Fisk, have prevailed upon him to allow his name to be placed before the members as their future president. Mr. Fisk, as owner of Wilburtha Farm, is known wherever good birds are bred. As to Mr. Fisk himself, to know him is to like him, and there is no question but what his election will mean a big boost for S. C. White Leghorns. Bear in mind that he has the time to give it real attention, for he is first, last and all the time a breeder, while the other candidates have numerous interests to take up their time.

From what I have seen and heard, the honor for the most costly poultry houses rests with Mr. Urban, of Urban Farms, Buffalo, N. Y.

yard covering a space eight feet deep and thirty-nine feet wide, a large number of the R. C. White Leghorn winners of the country are raised. Mr. Back Lot Man get busy and do what A. F. Almendinger of Buffalo did.

For a simple home-made drinking fountain whereby the fowls are always assured of fresh water, my hat is off to Mr. Studd, manager of Long & Bisby Farm, Hamilton, Ont.

While in Hamilton, Ont., I had the pleasure of visiting the following farms: Herbert Hall, M. J. Duffy and Robt. Christie.

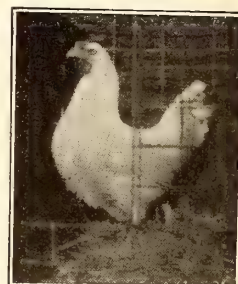
E. B. Peck, of Batavia, N. Y., has made a 300-chick brooder, heated by gas. It is made of the best cast and galvanized iron and costs complete about two dollars.



Buffalo Boy V, first cockerel at Greater Buffalo Show, 1914.



Betty IV, first hen at Greater Buffalo Show, 1914.



Betty V, first hen at Greater Buffalo Show, 1915.

Rose Comb White Leghorns as bred by A. F. Almendinger, 180 E. Delavan Ave., Buffalo, N. Y.

falo, N. Y. All of his houses are made with three thickness of lumber and sandwiched within is a strip of wire fencing. The doors are also three-ply, with sheet iron sandwiched in, and are locked on the same principle as a safe door. This, together with the fact that the windows are covered with iron bars, set in timbers 6x6, makes his houses as near thief proof as it is possible to build them.

Houck & Alt, of Buffalo, hatch the majority of their stock in the states and then put them on Mr. Houck's farm in Canada to mature. The only breeders we know of who have plants in two different countries.

If you doubt that one can be successful raising poultry on a city lot, here is where you change your mind. The gentleman in question has a beautiful home, in the heart of the best residence section. In the back

So far in my travels the record for large S. C. White Leghorns is held undisputed by F. A. House, manager of Eagle Bay Farm, Silver Creek, N. Y.

If you like baseball you should have witnessed the game between the ladies and gentlemen held the last day of the convention at Sheppards Ancona Farm.

No matter how good anything may be, it can always be improved on. Our capon friend at Toronto, Ont., S. K. Burdin, has recently acquired a number of patents on the improvements he has made in his caponizing instruments.

One of life's mysteries: "The Country Gentleman." I thought all country men were gentlemen.

The Kellerstrass Crystal White Orpingtons

AND OUR

Buff Orpingtons
S. C. R. I. Reds
R. C. R. I. Reds
White Wyandottes
White Leghorns
White Rocks
Barred Rocks
Turkeys
Water Fowl

Make the Greatest Win in History at the Iowa and Nebraska State Fairs

The Big Iowa State Fair of 1916 brought out 2,600 of the best fowls of Illinois, Indiana, Ohio, Missouri, Nebraska and Iowa. In the best of competition our birds won 39 first prizes, including five out of six firsts on White Orpingtons, 2 firsts and 2 seconds from four classes in Buff Orpingtons, and four first prizes on Reds. Our 1st White Orpington pullet was the silver trophy champion female of the whole English class.

At Nebraska State Fair, with 3,162 fowls actually on exhibit and in competition, our winning record was even better than at Iowa. We made practically a clean sweep on Buff and White Orpingtons, White Wyandottes and S. C. Rhode Island Reds. Our record on White Holland and Bronze turkeys at both fairs was never equalled. Our first and second prize hens in White Leghorns were the wonder of the show room. Free catalog and special fall price sent on request. Hundreds of birds for sale at reasonable prices. Every fowl guaranteed to please, or no sale.

THE 1733 RANCH, Russell F. Palmer, Manager

R. R. 6, Box 2, KEARNEY, NEBRASKA



Yes, It Took Over 26 Years of Careful Selection, Trapnesting and Pedigreeing to Produce

PARKS' STRAIN OF BRED-TO-LAY AND DO-LAY BARRED PLYMOUTH ROCKS

The records they have made at home, the reports from customers in nearly all parts of the world, together with the Official Laying Contest Records show that it was years of breeding well spent. They have sworn continuous laying records up to 148 eggs, 365 day records up to 290 eggs. Flock averages up to 243 eggs. In addition to having been among the winners in nearly all the American laying contests. They outlayed every other breed entered (the famous English strains included) and made the best winter month record in the last Missouri laying contest. They lead the entire 100 pens in the present Missouri contest by 31 eggs. And we know those 100 pens represent the cream of the best laying flocks of United States, Canada and England.

COCKERELS AND FOUNDATION STOCK

We have some choice pedigreed birds with the above breeding for foundation stock, and a nice selection of Cockerels, that stamp the lay on their offspring.

Mrs. Ida Kinyon, Deep River, Ia., writes: "I am getting the benefit of those roosters. I never got so many eggs in all my life. We simply trade eggs for everything, even to hog tight wire fencing."

Cockerels and Foundation Stock Circular Free. Large 40-page catalog a dime. J. W. PARKS, Box J, ALTOONA, PA.

SHOW DATES

On account of lack of space in this issue show dates up to and including December 5 only are shown. Later dates will be published next month.

ALABAMA.

Oct. 17-21, 1916. Alexander City; East Alabama Fair Assn., A. P. Fuguy, sec.
Oct. 24-28, 1916. Sylacauga; Salladega County Fair Assn., J. E. Jordan, sec.
Oct. 30 to Nov. 4, 1916. Dothan; Robt. West, judge; R. W. Lisenby, sec.

ARIZONA.

Oct. 19, 20, 21, 1916. Prescott; The Northern Ariz. Fair Assn., A. H. Currier, judge; W. M. Wood, sec.

ARKANSAS.

Oct. 23-28, 1916. Danville; F. E. Buck, J. C. Snyder, judges; W. C. Ball, sec.

CALIFORNIA.

Nov. 4-9, 1916. San Diego; San Diego Fanciers Club; R. Hawkins, mgr. and sec., c/o Maryland Hotel.

CANADA.

Nov. 6-9, 1916. Berlin; The Berlin Poultry Assn., H. B. Strome, sec., 210 Courtland avenue.

CONNECTICUT.

Nov. 22-25, 1916. New London; The Southern New England Poultry Assn.; W. M. Anderson, Beebe, Ives, Master Northrup, Hallenbeck, judges; H. W. Schriver, sec., Groton, Conn.

Nov. 30 to Dec. 1-2, 1916. Danbury; Western Conn. Poultry Assn.; G. W. Weed, F. W. Otte, judges; H. G. Ward, sec., 57 Main street.

Nov. 30 to Dec. 2, 1916. South Norwalk; Norwalk Poultry Assn.; A. D. Morgan, sec.

Jan. 23-26, 1917. Middletown; Middlesex County Poultry and Pet Stock Assn.; Chas. L. Bliss, sec.

DELAWARE.

Dec. 5-9, 1916. Wilmington; Diamond State Poultry and Pigeon Assn.; Frank M. Smith, sec., 903 Adams st.

GEORGIA.

Oct. 3-7, 1916. Donaldsonville; Southwest Ga. Fair, W. H. Vanlaningham, sec.

Oct. 7-13, 1916. Jesup; Wayne County Fair Assn., Jas. N. Atkinson, sec.

Oct. 9-14, 1916. Dalton; Whitfield County Fair, T. S. McCann, sec.

Oct. 10-13, 1916. Cartersville; Barstow County Fair Assn.; Loring Brown, judge; W. C. Zains, supt. and sec.

Oct. 17-20, 1916. Rome; North Ga. Fair Assn.; Loring Brown, judge; Jule M. Glover, supt. and sec.

Nov. 6-11, 1916. Macon; Georgia State Fair Assn.; J. H. Drevenstedt, judge; Harry C. Robert, sec., 408 Broadway.

Nov. 13-18, 1916. Augusta; Augusta Poultry Assn.; Drevenstedt, Marshall and Robt. West, judges; H. W. Cameron, sec.

ILLINOIS.

Nov. 27-30 to Dec. 1-2, 1916. Jacksonville, Morgan County Poultry Assn.; Geo. A. Heyl, judge; James C. Weber, sec.

Nov. 28 to Dec. 3, 1916. Quincy; The Quincy Poultry Assn.; W. S. Russell, J. C. Johnston, D. E. Hale, judges; A. D. Smith, sec.

Dec. 4-9, 1916. Beardstown; Cass County Poultry Assn.; D. T. Heimlich, judge; V. L. Adelmann, sec.

Dec. 4-9, 1916. Milledgeville, Ill.; Milledgeville Poultry Assn.; Elmer Gimlin, judge; C. A. Straka, sec.

Dec. 4-8, 1916. Hoopeston; Hoopeston Poultry Assn.; D. T. Heimlich, judge; Wm. Johnson, sec., R. F. D. No. 3.

Dec. 4 to 9, 1916. Lanark; Lanark Poultry, Pet Stock and Grain Assn.; F. H. Shellabarger, judge; Mrs. J. A. Shaner, sec.

Dec. 4-9, 1916. Mt. Carmel; The Wabash County Poultry Assn.; Geo. H. Northup, judge; Dr. R. C. Bell, sec.

Dec. 5-8, 1916. Murphysboro; Jackson County Poultry Assn.; Joseph Dagle, judge; O. L. Rawlings, sec.

Dec. 5-10, 1916. Woodstock; McHenry County Poultry Assn.; T. J. Rountree, judge; M. C. Davis, sec.

INDIANA.

Nov. 28 to Dec. 3, 1916. Hammond; Calumet Poultry Fanciers' Assn.; B. O. Swaim, judge; Wm. Maginot, sec., 174 Fayette st.

Dec. 4-9, 1916. Indianapolis; Indianapolis Breeders of Poultry and Pet Stock Assn.; G. C. Ott, sec., 1106 Linden st.

It would be a pitiful waste

if you had a winner and your lack of self-confidence or your too great belief in the "big fellows" infallibility prevented you from exhibiting at

The Palace Show

You owe it to yourself not to take that risk. We emphasize the fact that we have made many a man in the trade and we urge you to see what we can do for you. If you win a prize—well, we don't have to tell you what that means, but we do wish to point out that in any case we can be the means of introducing you to new men and new methods.

New York City

gives precedence to a show that already has prestige over every other show in the country. You reap the benefit of this double advantage. From

DECEMBER 5-9

you can make every minute worth while, both from the business and the scientific point of view. The chance is too good to miss. Act quickly.

Entries Close November 20th

Come now, it will be a whole year before you have another opportunity.

EMPIRE POULTRY ASSOCIATION

Robert Seaman, Pres. MINEOLA, N. Y. L. D. Howell, Sec'y

Indianapolis Breeders of Poultry and Pet Stock Association

Will hold their second annual show December 4-9, 1916 at Indianapolis.
Competition open to the world; premium list ready November 1, 1916

G. C. OTT, Secretary 1106 Linden St., Indianapolis

TERRE HAUTE, IND., DEC. 6, 7, 8, 9 and 10, 1916

Entries close December 2, 1916. Comparison show. Cash premiums. Premium list ready November 10, 1916. A feature will be a big sales room in connection. Good stock sells quickly at this show. We employ such judges as Tucker, Hale, Hewes, etc. For any information write HARRY FORBES, Sec'y., 2601 N. 11th St

TYRONE FANCIERS' ASSOCIATION Will Hold Its Third Annual Show.

This will be a score card show. Cooped in steel wire cages. Judged by American Poultry Association judges. Valuable cash and merchandise premiums. Silver cups, etc. Entries close November 18, 1916. Write for premium list. E. B. FISHER, Secretary, TYRONE, PA.

Wilkes-Barre Poultry and Agricultural Ass'n, Inc.

will hold its annual Poultry and Agricultural Show, December 4 to 9, 1916. Poultry Judges, John Kriner, J. H. Minshall, H. A. Shetler. Names and addresses of exhibitors placed on every coop.

F. N. ROLL, Secretary 550 Carey Avenue WILKES-BARRE, PA.

Western Illinois Fanciers Ass'n

"We use the Kiepper Cooping System." Will hold its Fourth Annual Poultry Show, December 6th to 10th, 1916, inclusive. Many special features, including illustrated lectures on poultry and grain. Send for premium list to

E. A. STOLVENEL, Secretary SAVANNA, ILLINOIS

PROVISO POULTRY FANCIERS ASS'N

2nd Annual Poultry, Pigeon and Pet Stock Show, Forest Park, Ill., Dec. 21-26. Comparison judging. Uniform cooping. Judges, D. E. Hale, R. H. Waterman, R. C. JAMIESON, Sec., 1019 N. 5th Av., Maywood, Ill.

THE BELOIT POULTRY AND PET STOCK ASS'N, BELOIT, WIS.

Next Show Dec. 14 to 20, 1916. \$100.00 to be awarded on displays in four purses; other big cash premiums and 12 Silver Cups. Score card show. Geo. M. Wells, Judge. Entries Close Dec. 12th, 1916. Uniform coops. GUY S. LEH, Secretary, BELOIT, WISCONSIN

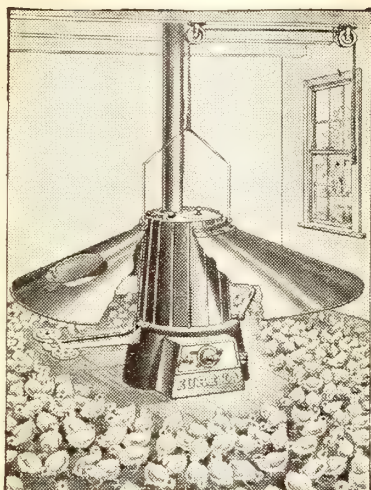
Batavia Poultry Association—Fourth Annual Show

D. E. Hale, Judge
Write NOW for Premium List
Hale's Explanatory Score Card Used
Valuable Cash Premiums
CHARLES A. PIERCE, Secretary BATAVIA, ILL.

155 EGG \$7.85 INCUBATOR LOWEST PRICE YET FOR BIG 155 EGG

Prize winning hatches—Sure results—Healthy chicks—Best Construction—California Redwood—Copper Hot Water Heater—Safety Lamp—Tester—Thermometer—Self-Regulating, etc. Frt. paid E. of Rockies. With Brooder \$9.85. Hundreds of Dead Air Cells. Big new offer this year—write.

PROGRESSIVE INCUBATOR CO., BOX 135 RACINE, WIS.



SURE MONEY For Dealers and Farmer Agents

With the New Improved

EUREKA COLONY BROODER

The Best Brooder Stove Proposition on the Market

This wonderful brooder raises the chicks instead of smothering them. It is absolutely gas proof, can be operated at a cost of only five cents per day, and being self-regulating needs attention only once every 24 or 48 hours (dependent on the weather.)

The price for 500 capacity, is but \$12.00; for 1000, \$15.00. This is the only colony brooder on the market selling at anything near the price. You can make real money selling this brooder—its quality, construction, automatic features and general efficiency impress on sight. Experience is not needed. Send at once and get the rights for your territory. We make the Eureka right and we treat our agents right.

Price is low—discount liberal.

JAMES R. WOTHERSPOON
240 N. Front St. Philadelphia, Pa.



2nd Prize Pullet Bred Cockerel, Palace Show, 1915

LATHAM'S BEAUTY AND UTILITY Barred Plymouth Rks.

Choice breeding females selected from my matings of this year at very low prices.

Let Me Supply You Winners
for the shows this fall and winter. I have them. Write me what you want.

C. H. Latham, Box 145, Lancaster, Mass.

Satisfaction Strain BUFF ORPINGTONS

My birds this year are simply magnificent. I have never produced so many birds of superb coloring, massive size and correct type. Cannot find words to express my confidence to please the most exacting buyers of Buff Orpingtons for exhibition, breeding and utility, this season. To back this up I offer to pay the express on any stock that is returned as unsatisfactory and will ship C. O. D. if you wish. And don't forget. Satisfaction Strain Buff Orpingtons have been on the firing line for 10 long years and not a dissatisfied customer yet. Catalog free. "The farm with no dissatisfied customers."

F. A. KAUP BUFF ORPINGTON FARM - Box 101 - GLEN ELLYN, ILLINOIS

World's Best S. C. Blk. Minorcas

Canadian National Exhibition, Toronto, and Western Fair, London, are Canada's two greatest fall shows. I won at Toronto September, 1916, 3rd Cock, 1-2-3-4 Hen, 1-2-3-4 Cockerel, 1-2-3-4 Pullet, 1st Pen. At London every 1st, 2nd and 3rd. My cock birds were in full moult. All my winners for sale at reasonable prices. Please send for sale list.

T. A. FAULDS - LONDON, ONTARIO, CANADA

The Morris White Orpingtons

They are repeating their remarkable winnings at the last Madison Square Garden Show, where they won 1st Cock, 1st and 4th Hen, 1st and 4th Pullet, 2nd Cockerel and 2nd Breeding Pen, by winning for us at the New York State Fair at Syracuse, September 12, 1st Cock, 1st Cockerel, 1st and 2nd Hen, 2nd Pullet and 2nd Breeding Pen. In every show where our White Orpingtons have competed, they have made for us this kind of a "clean-up" winning. We have on our farm 300 grand Cockerels and Pullets that are very classy. They have the real Orpington type, heavy bone and are white. Write us your wants. We can please you at reasonable prices.

THE MORRIS POULTRY FARM - LEBANON, OHIO

Rhode Island Reds, Both Combs

At the Industrial Exposition and Fair, September 2-9, 1916, Cleveland, Ohio, I won on Single Comb Reds, 4 first and 4 second prizes. At Lorain Co. Fair, Elyria, O., won every first and second prize on both varieties. This in connection with my winnings at the last two big Cleveland Winter Shows, surely will convince you my Reds are as good as the best. If you want quality, write me.

B. M. BILLINGS, ELYRIA, OHIO

Send for a Copy of New Am. Poultry Journal Cut Catalog.

IOWA.

Nov. 27 to Dec. 1, 1916. Shenandoah: Nishna Valley Poultry Assn.; Jos. Dagle, Russell Palmer, judges; R. B. Murphy, sec. Nov. 28-30 to Dec. 1, 1916. Boone: Boone County Poultry Assn.; Holden, judge; F. D. Wheeler, sec., 523 Jefferson st. Dec. 1-7, 1916. Traer: Traer Poultry Assn.; H. W. Atkins, judge; T. J. McGinnis, sec.

Dec. 1-4, 1916. Ottumwa: Ottumwa Poultry Assn.; D. E. Hale, judge; V. Reinhard, sec., 105 N. Weller st.

Dec. 4-8, 1916. Iowa City: The Iowa City Poultry Assn.; Glen F. Richards, judge; Jake L. Yager, sec., Box 202.

Dec. 4-8, 1916. Villisca: The Villisca Poultry Assn.; Mrs. Chas. Warren, sec.

Dec. 5-8, 1916. Centerville: Appanoose County Poultry Assn.; H. Dippel, judge; M. E. Terry, sec.

KANSAS.

Nov. 28-30 to Dec. 1, 1916. Kansas City: Kansas City Mid-West Poultry Assn.; C. A. Emry, T. L. Pollock and Shedd, judges; Wm. Hunter, sec., 2648 N. 22nd st.

Nov. 27-30 to Dec. 1-2, 1916. Emporia: Lyon County Poultry Assn.; E. W. Cook, judge; F. J. Horton, sec.

Dec. 4-9, 1916. Fredonia: Wilson County Poultry and Pet Stock Assn.; E. W. Cook, judge; A. K. Sell, sec.

Dec. 5-8, 1916. Kingman: Jno. C. Snyder, judge; V. M. Ravenscroft, sec.

KENTUCKY.

Nov. 20-25, 1916. Owensboro: Owensboro Poultry Club; D. T. Heimlich, judge; D. C. Gordon, sec.

Nov. 27-30 to Dec. 1-2, 1916. Henderson: Henderson Poultry Assn., M. M. Alves, sec., 118½ N. Main st.

LOUISIANA.

Oct. 18-22, 1916. Baton Rouge: Baton Rouge Free Fair; Wm. H. Gates, sec.

Nov. 1-6, 1916. Shreveport: Louisiana State Fair; L. N. Brueggerhoff, sec.

Nov. 11-19, 1916. New Orleans: New Orleans Farm and Live Stock Assn.; R. E. Bruce, supt. poultry, 330 Carondelet st.

MASSACHUSETTS.

Oct. 3-6, 1916. Brockton: Brockton Agri. Society; head of poultry dept., E. T. Packard; P. G. Flint, sec.

Nov. 22-24, 1916. Holyoke: Holyoke Poultry and Pet Stock Assn.; C. H. Shaylor, O. C. Chapin, F. G. Cook, judges; H. F. Davis, sec., 22 Montgomery ave.

Nov. 29-30 to Dec. 1-2, 1916. Attleboro: Attleboro Poultry Assn.; Atherton, Bailly, Cook, Allen, Duston, Feather, judges; Frank W. Middleton, sec., 24 Leroy st.

Dec. 5-7, 1916. Greenfield: New England Poultry Assn.; H. Nickolson, F. Wineson, judges; J. H. Bulman, sec.

MICHIGAN.

Oct. 3-6, 1916. Fowlerville: Fowlerville Agri. Society, Geo. A. Newman, sec.

Nov. 28-30 to Dec. 1-3, 1916. Berrien Springs: Berrien Springs Poultry Assn., L. E. Kephart, sec.

Dec. 5-8, 1916. Zeeland: Zeeland Poultry and Pet Stock Assn.; W. A. Bonner, judge; Jno. A. Hartgerink, sec.

MISSISSIPPI.

Oct. 16-21, 1916. Meridian: Mississippi Alabama Fair; J. H. Sled, judge; A. H. George, sec.

Oct. 17-21, 1916. Calhoun City: Calhoun County Fair Assn., R. D. Spencer, sec.

Oct. 23-28, 1916. Jackson: Mississippi State Fair; J. H. Sled, judge; W. C. Taylor, sec.

MISSOURI.

Nov. 13-15, 1916. Concordia: Concordia Poultry Assn.; E. C. Branch, judge. Jno. F. Burns, sec.

Nov. 13-18, 1916. Paris: Monroe County Poultry Assn.; T. E. Quisenberry, judge; J. W. Jackson, sec.

Nov. 24-30, 1916. St. Louis: St. Louis Poultry and Pet Stock Assn.; Chas. K. Culom, sec., 4950 Wise ave.

Nov. 27-30, 1916. La Belle: Le Belle Poultry Assn.; T. E. Quay, judge; C. G. Calhoun, sec.

Nov. 27-30 to Dec. 1, 1916. Sedalia: Sedalia Poultry Assn.; D. T. Heimlich, judge; Fred A. Benz, sec.

Nov. 29-30 to Dec. 1, 1916. Carrollton: Carroll County Poultry Assn.; V. Southard, judge; Mrs. A. J. Ginnard, sec., R. F. D. 9.

Nov. 28-30 to Dec. 1-2, 1916. Butler: The Bates County Poultry Assn.; Tom Woods, judge; Elson Snyder, sec.

Nov. 29 to Dec. 2, 1916. Brunswick: Charlton County Poultry Assn.; E. C. Branch, judge; W. W. Daily, sec.

Dec. 5-9, 1916. St. Joseph: Buchanan County Poultry Assn.; Hale, Southard, Thompson, judges; S. R. Casper, sec., 117 S. 8th st.

HAYWARD'S

White Plym. Rocks

WINNERS AT BOSTON, 1916.
Write for Prices and Particulars.

W. F. HAYWARD WESTBORO, MASS.

Dec. 4-7, 1916. Richmond; Ray County Poultry Assn.; E. C. Branch, judge; C. A. Brown, sec., R. F. D. No. 2.

Dec. 5-9, 1916. St. Joseph; Missouri State Poultry Assn.; Hale, Southard, Thompson, Palmer, judges; Fred Crosby, sec., Mountain Grove, Mo.

NEBRASKA.

Nov. 27-30 to Dec. 1-2, 1916. Omaha; Greater Omaha Poultry Fancier Assn.; Shellabarger, Shaner, Smiley, Schreff, judges; R. R. Foster, publicity mgr.; W. E. Backer, sec.

Nov. 28-30 to Dec. 1-2, 1916. Hickman; Hickman Poultry and Grain Assn.; A. H. Smith, judge; P. G. Fieselman, sec.

Dec. 4-9, 1916. Beatrice; Beatrice Poultry Assn.; G. E. Schreff, judge; David O. Kas-sing, sec., R. 2.

Gibbon; Gibbon Poultry Assn.; Guy E. Schreff, judge; L. Bevis, sec.

NEW HAMPSHIRE.

Dec. 5-8, 1916. Laconia; Lake City Poul-try Assn.; Burbank, judge; R. L. Piper, sec.

NEW JERSEY.

Nov. 28-30 to Dec. 1-3, 1916. Elizabeth; Union County Poultry Assn.; L. P. Graham, J. C. Punderford, M. S. Chapman, W. Hobbs, judges; A. J. Churchill, sec., 724 Canton st.

Nov. 29 to Dec. 2, 1916. Hackensack; Bergen County Poultry Assn.; O. J. Grath-wohl, sec., Hyler st.

NEW YORK.

Nov. 13-18, 1916. Cherry Valley; Cherry Valley Poultry Assn.; Geo. M. Weed and J. W. Sloan, judges; D. M. Green, sec.

Nov. 23-25, 1916. Pleasantville; Pleasant-ville Poultry Club, Geo. H. Baker, sec.

Dec. 4-8, 1916. Sidney; Unadilla Valley Poultry and Pet Stock Assn.; Archie E. Van-dervort, sec., Sidney Centre.

OHIO.

Nov. 21 to 26, 1916. Dayton; The Dayton Fancy Feather Club; Young and Dipple, judges; C. D. Forney, sec., 1524 W. 3rd st.

Nov. 24-30, 1916. Marion; Marion County Poultry Assn.; F. W. Travis, judge; Earl Sargent, sec., 135 Waterloo st.

Nov. 27 to Dec. 2, 1916. Akron; M. Rennes, sec.

Nov. 28-30 to Dec. 1-3, 1916. Dayton; The Dayton Fancy Feather Club; W. C. Young, A. H. Emch, judges; C. D. Forney, sec.

OREGON.

Dec. 4-9, 1916. Portland; Oregon Poultry and Pet Stock Assn.; J. A. Tucker, B. F. Keeney, Wm. Coats, Tom Wilkinson, O. Nel-son, judges; J. M. Mann, sec., 382 Stark st.

PENNSYLVANIA.

Thanksgiving week. Lebanon; Lebanon County Poultry Assn., Sam Black, sec., 1012 Cumberland st.

Nov. 28-30 to Dec. 1, 1916. Tyrone; Ty-rone Fanciers Assn., E. Blair Fisher, sec., 1212 W. 15th st.

Nov. 27 to Dec. 2, 1916. Pittsburgh; Greater Pittsburgh Poultry Assn.; A. J. Henning, sec., 1812 Carson st.

Dec. 5-8, 1916. Johnsonburg; H. C. Mil-ler, judge; H. I. Roussey, sec.

Dec. 4 to 9, 1916. Wilkes Barre; Wilkes Barre Poultry and Agri. Assn.; J. Kriner, J. H. Minshall, judges; Fred Roll, sec., 550 Carey ave.

RHODE ISLAND.

Nov. 23-25, 1916. Pawtucket; Pawtucket Poultry Assn.; Allen, Ballow, Atherton, Ben-son, judges; E. J. Gibbons, sec., 206 Lowden street.

Dec. 5-9, 1916. Providence; R. I. Poultry Assn.; Lambert, Shore, Allen, Roger, An-drews, judges; W. L. Brown, sec., 6 Ex-change place.

SOUTH CAROLINA.

Oct. 31 to Nov. 1-3, 1916. Spartanburg; Spartanburg Poultry Assn.; J. H. Dreven-stedt, judge; C. W. Anderson, sec., 116 Ezell street.

TEXAS.

Nov. 20-25, 1916. Corpus Christi; Nueces County Poultry and Pet Stock Assn.; H. B. Savage, judge; J. F. Herold, sec.

Nov. 20-25, 1916. Houston; South Texas Poultry and Pet Stock Assn.; Walter Burton, judge; F. W. Allen, sec., c/o Hinke & Pilot.

Nov. 29-30 to Dec. 1-2, 1916. Lockhart; Caldwell Poultry Assn.; C. P. Van Winkle, judge; J. W. Tardy, sec.

Nov. 30 to Dec. 1-2, 1916. Stephenville; Erath County Poultry Assn.; R. A. Davis, judge; W. T. Graves, sec.

After a Year's Test

Under every day conditions this impartial authority wrote this letter. Read it. Your experience with Carbola will be the same. You can rid your poultry house of lice and mites—you know how important that is to the welfare of your flock—and at the same time, at no extra cost for labor or material, paint them a snow-white by using

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The Disinfecting White Paint

a mineral paint combined with a germicide 20 times stronger than carbolic acid, but neither caustic nor poisonous. Comes in powder form ready to use when-ever convenient. Just mix with cold water and put on either with brush or sprayer. Will not blister, flake or peel. Will not spoil by standing.

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in poultry house, cow-barn, hog-pen, creamery, cellar and out-building to prevent the germs of all infectious disease from getting a foot-hold in flock or herd. Get some today from your dealer and have it handy.
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Dept. I.

7 East 42nd Street

New York

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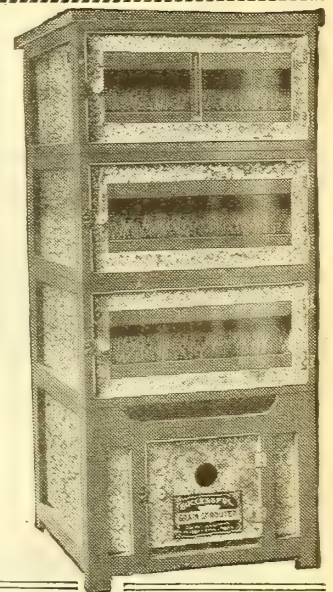
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Made with double steel walls—metal trays—nothing in it to warp, shrink, swell or mold the food. Fireproof. Lasts a life-time. Large glass doors. Made in sections so you can add more sections as your needs grow. There's a size for your needs whether you keep 50 or 600 hens. Thousands of poultry raisers say they would not be without this wonderful food maker. The newest, most reliable construction ever made in a grain sprouter. Not only turns idle hens into industrious layers but supplies feed for growing chicks—protects health—prevents chick loss. Booklet free—"How to Raise 48 Out of 50 Chicks," 10 cents.

Write today for catalog and full details of 1917 offer
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Buff Rocks CHAMPIONS

World's Fair first prize winners, also Madison Sq. Garden, New York, 1916

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The Fancier's Fowl. Won the Principal, Regular and Special Prizes at Madison Square, Boston, Palace. A few birds for sale. No eggs.
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We desire to receive shipments direct from actual poultry plants or farms that are in position to ship in single case lots or more of their own production.

Strictly Henhery White, Brown or Mixed colored eggs are considerably higher than usual and will go higher as the season advances. We predict 65 cents or better on Henhery White Eggs within the next three months and 50 cents or better on Henhery Brown or Mixed.

Write us, if interested, for shipping tags, market prices or any other information desired. We refer you to Irving National Bank, Fidelity Trust Co., Commercial Agencies and Prominent Poultry Plants by request.

Red Feather Farm

ALL EGGS (above utility) from our *Champion Sensation* and *Red Prince* strains of R. and S. C. REDS HALF PRICE after May 15th. See our ads in R. I. Red Journal, R. P. J., American Poultry World and Farm-Poultry.

F. W. C. ALMY Box 100 TIVERTON 4 CORNERS, R. I.

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AS Henry N. Prouty used to say: What you get out of a hen in the Winter depends on what you put in, in the Fall.

Protein is always necessary—and Diamond Corn Gluten Meal is the most economical and concentrated form of corn protein on the market.

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BEST FOR EGGS and SHOW. Lay at 4 mo. 261 eggs 1 yr. 443, 2 yrs. Our customers very successful. Valuable DETAILS FREE.

YESTERLAID EGG FARMS Co. Dept. 5 Pacific, Mo.

Rockdale
White Plym. Rocks
Better Bred for 16 years.
DEYOE'S, Station 1, Dodgeville, Wis.

Dec. 6-9, 1916. Victoria; Gulf Coast Poultry and Pet Stock Assn.; S. B. Johnston, judge; F. F. Aschbacher, sec.

VERMONT.

Dec. 6-8, 1916. Bellows Falls; Conn. Valley Poultry Assn.; F. G. Cook, P. P. Ives, C. H. Brundage, judges; G. S. Buxton, sec.

WISCONSIN.

Dec. 4-11, 1916. La Crosse; Western Wis. Poultry Assn.; Geo. Wells, G. W. Hackett, judges; J. E. Kirchels, sec.

GREATER CHICAGO SHOW.

Prospects at present are that the Greater Chicago Show to be held at Chicago, January 10-16, 1917, will be bigger and better than ever. So far four national meets have been awarded to this show, viz., The National S. C. White Leghorn Club, The International Partridge Plymouth Rock Club, The National Partridge Wyandotte Club and the American Bronze Turkey Club. Judges Chapman and Johnston have been engaged to judge the White Leghorns. This places a well known Eastern and Western Leghorn judge on this class. Mr. H. B. Hark, the well known breeder of Partridge Wyandottes, will judge the Partridge Rocks. He has judged this class at some of the largest shows in the country and his work has always been satisfactory. Mr. A. C. Smith of St. Paul, Minn., will judge the Partridge Wyandotte classes. Mr. Smith is well known to the breeders of this variety and a large entry is expected. Mr. Lewis, of Ohio, who has judged the Bronze Turkey meet before with entire satisfaction, has been engaged at the request of the club. Other well known judges engaged are: Frank L. Platt, Dr. Clarke, W. E. Stanfield, W. Struble, Wm. Wise, Jos. Dagle, Chas. McClave, Newton Cosh and J. A. Leland. In order that you may get one of the first premium lists off the press send your name and address to D. E. Hale, Sec'y, Room 930 Monon Bldg., 440 South Dearborn St., Chicago, Ill.

BIG SHOW AT KANSAS CITY, MO.

The great Convention Hall in Kansas City, Missouri, will be a busy place during the second week in January. The Implement show, with free admission, will be held on the first floor. The Kansas City Poultry Show on the second floor, the light and ventilation being best on the second floor. In connection with the poultry show, the Kansas City Pigeon Club and the Mid-West Pet Stock Association will hold their annual shows. A fine collection of wild birds and animals from the Kansas City zoo will be on display. Exhibitors who want their birds seen by a large number of interested visitors should remember the Kansas City Show. Premium lists of the poultry shown can be secured by writing E. L. Noyes, 726 Main St., Kansas City, Mo.

SUCCEED WITH
"Successful"
INCUBATORS and BROODERS
BACKED by 21 years of successes
and strongest guaranty ever
written. **Poultry lessons free** to
every buyer. Booklet "How to Raise 48 Out of 50
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ing feed for 15c per bushel in "Successful" Grain
Sprouters. Write today.
DES MOINES INCUBATOR CO., 1 Second St., Des Moines, Ia.

THE "COLLINS" OAT SPROUTER

Provides fresh, sweet, and wholesome green food and protein the year around, at lowest cost. Only \$3 Delivered. West of Miss. River add 50c. Pacific Coast States add \$1. 8 pans 11x15 in., perforated, galvanized steel. Knockdown. Descriptive Booklet FREE. 10-days free trial.

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Bawden's Buff Plymouth Rocks

Sunlight Strain

Send \$5.00, \$10.00, \$15.00 for Cockerel on approval. Write me your wants, I can please and satisfy you.

J. BAWDEN Box 20 Ridgetown, Ont., Can.

URBAN FARMS PINE RIDGE, BUFFALO, N. Y.

White Rocks, Black Langshans, Black-Tailed White Japanese Bantams, Mille Fleurs, Silkies, White Leghorns and White Wyandottes.

The W. Wyandotte Poultry Yards

Won First at Boston, Madison Square Garden and Palace N. Y., Philadelphia, Worcester in 1915, 1916—winners of Mass. State Cup. Stock for sale—Cocks, Hens, Cockerels, Pullets.

H. J. W. Fay, Prop. Westborough, Mass.

PILLING *Easy to use*
CAPON TOOLS
MORE THAN DOUBLE
YOUR COCKEREL PROFITS
Capon grows twice as large on the same amount of feed and bring twice the price per pound.
Complete set of reliable, practical, easy-to-use Capon Tools—full, illustrated instructions included. Parcel Post prepaid.
Capon bring 30c per lb.
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Send for FREE Capon Book

COLUMBIAN WYANDOTTES

A few yearling hens and pullets yet for sale; also some cockerels and two cock birds. Winners at last winter shows.

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Solon Mills, Illinois

1916 Ohio State FAIR WINNERS

Our S. C. W. Leghorns won 1st cock, 1st cockerel, 1st pullet, 1st and 2nd young pen. Special best cockerel, Med. class. Stock for sale.

J. W. FRIESNER & SON

Box C Bremen, Ohio

Orpingtons and Sussex

(Buff and White)

(Speckled)

Of the highest type and quality, both for the breeding pen and exhibition room. Write me your wants. Prices very reasonable. Satisfaction guaranteed in all cases.

C. A. KEEFER

Muskegon, Michigan

You Want the Best FOR THE LEAST

Let us tell you about our Superior Columbian Wyandottes. It's the strain that wins for us and will for you. Prices right and satisfaction or money back promptly.

GILBERT POULTRY FARM

Whittier Road Haverhill, Mass.

Pullets Ready to Lay

Get our large, healthy, robust pullets. They are money-makers from the start. Mature Wilburtha bred pullets, Leghorns, \$2 each; heavier breeds, \$2.50 each. S. C. White Leghorns, White Plymouth Rocks, Columbian Wyandottes, S. C. R. I. Reds. Show birds that are guaranteed to win. Write us at once.

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PREVENTS WASTE Reduces Feed Bills

Catch tray A, collects waste and returns it when inverted to close hopper against rats and mice at night. (See dotted lines.)

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is the cheapest, as well as the best dog bred today when you consider that "They will do anything that another dog can do." Hunters, ratters, watch-dogs, companions, stock-drivers, all in one. Spayed Bitch pups make wonderful, good all round dogs. Our Pamphlet will tell you—it's FREE.

Collier—Beautiful, intelligent, reliable. Dog and bitch pups, spayed pups, and matured stock for sale. List sent on request. Address P. L. SAVAGE ST. CHARLES, ILLINOIS

R. C. W. LEGHORNS. Winners at Nat'l Shows Chicago Coliseum, Milwaukee, Minneapolis, Duluth and many others. At Milwaukee 5 lts; 3 2ds; 3 3ds. in competition with World's Fair winners Eggs for hatching and day-old chicks.

Mrs. J. Wolf Box 40 Merrifield, N. D.



LITTLE ROCK BIG POULTRY SHOW.

Arkansas' largest poultry show of the year will be held at Little Rock, week of October 16 to 21 inclusive. The Little Rock Poultry Association has joined with the Pulaski County Fair and will hold their sixth annual poultry show at that time. Large cash premiums, all guaranteed by the Board of Commerce, will be paid on Friday, October 20th, and exhibitors not present will receive a check for their winnings. Hon. T. E. Quisenberry will place the awards by the comparison system. The management feels that no further guarantee as to the honesty of the awards is needed, as the name Quisenberry stands for a square deal to large and small exhibitors alike. Entry fee 25 cents for singles, \$1.00 for pens. The premium list is now out and if you have not received one send a postal card to James V. Johnson, 820 State Bank Bldg., Little Rock, Ark., and he will send you one by return mail.

THE DAYTON SHOW.

The fanciers of Dayton, Ohio, in charge of the poultry exhibition are figuring on giving cash specials second to no other show in the country. A magnificent new building will house the show this year and the ventilating and lighting problems of former years will be easily managed. Remember Dayton held the largest American Poultry Association meet ever held in Ohio last year. They have Empire cages and allow three standard holes to every pen and large apartments to Minorca males. Altho not pushing for silver cups, a long list has been offered to date. A marked catalog is printed during the show, thus advertising the exhibitor at no charge to him. Remember the great try-out show will be held November 28, 29, 30, December 1, 2, 3, and that all judges will remain over Thanksgiving Day to explain their decisions. Names are being filed now for the big premium list, which can be obtained for the asking by writing the secretary, C. D. Forney, Dayton, Ohio.

As a result of the recent election of the American Single Comb Brown Leghorn Club, the following officers will serve their club for a period of one year, beginning with September 1: H. V. Tormohlen, Portland, Ind., president; Edward E. Orr, Brantford, Ontario, Northern vice-president; Rev. D. T. Brown, Mansfield, La., Southern vice-president; E. H. Rosenkranz, Colfax, Wash., Western vice-president; Fred H. Cook, Beaver, Pa., Eastern vice-president; G. L. Hornbrook, Decatur, Ill., Central vice-president; Mrs. Alice Smith, Pequanock, N. J., election commissioner; Noel M. Hall, Harrisonville, Mo., secretary-treasurer.

OLEGBANDS
10 Different Colors
Samples Free
Last life-time. Best! Cheapest! 100 for 70c. State breed. No-More-Lice keeps roosts free of mites and lice whole year without spraying. Guaranteed or money back. 50c postpaid. **PERFECT POULTRY SUPPLY CO., Box 5465, LYNBROOK, N.Y.**

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GOLDEN—BUFF
ORPINGTONS

First-class cockerels, vigorous, solid buff, and even in color, \$5 to \$10 each. Utility males, \$2. Satisfaction guaranteed.

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White Leghorns

Fawn, Runner and Colored Muscovy Ducks. Winners 1916 New York State Fair, 6 firsts, 6 seconds, 2 \$10 gold specials. Grand breeding and exhibition stock at low prices. Free circular.

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Route No. 8 CLAY, N. Y.

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At New York State Fair 1916

my stock was awarded First, Second and Third Pens in a class of 14. Pens or single birds for sale
MRS. HATTIE D. REED
Chestnut Terrace :: Marcellus, N. Y.

The fifth annual show of the Cleveland Poultry Breeders' Association will be held January 8-13, 1917, at Cleveland, Ohio. The show will be held in Central Armory, within three minutes walk of the Public Square. Judges will be Platt, Gault, Stream, Tormohlen and Johnson. For further information write the secretary, J. O. Somers, Bedford, Ohio.

The third annual exhibition of the Oil City Poultry Association will be held at Oil City, Pa., January 24-27, 1917. Chas. McClave, judge. This will be a score card show. For full particulars address the secretary, Chas. R. Baker, Oil City, Pa.

Proviso' Poultry Fanciers' Association of Maywood, Ill., has engaged the services of Judge Waterman to assist Judge Hale in placing the awards on poultry at their big show to be held December 21-26, 1916, at Forest Park, Ill. Don't fail to write the secretary, R. C. Jamieson, 1019 N. 5th Ave., Maywood, Ill., for full particulars.

The 1916 Year Book of The American Light Brahma Club is now ready for distribution. This book is full of valuable information and should be in the hands of every one interested in this grand old breed. The membership fee to this club is only \$1.00. Write the secretary, Harvey C. Wood, Bound Brook, N. J., for full particulars.

Closing Out Sale

Owing to circumstances over which we have no control, we are compelled to sell our entire stock of Single Comb White Leghorns; also our poultry plant, including our home, poultry houses, brood coops and all equipment. The dwelling house contains 12 rooms, bath, hot and cold water, hot-air furnace, gas and electricity.

The stock consists of about

700 S. C. White Leghorns

300 pullets, 400 hens, one and two years old, and about 50 cocks and cockerels. Prices ranging from \$1.00 to \$10.00, or will sell the entire flock to one purchaser for \$1.00 a piece. **Must sell quick. This is a real bargain.** Write today to

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Officially awarded Championship male two years in succession and 127 prizes one season.

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Your lesson on baby chicks is just what we have been looking for. Last year we lost 650 chicks out of 1600. This year we lost 65 out of 1600. This is the result of just one of your lessons. **GEO. M. JONES,** Escondido, Calif.

It is my earnest desire to put a real—useful—practical poultry education before every man and woman who is interested in poultry raising. I want to see more and better poultry raised—I want to see more people making money with chickens—I want to eliminate the losses and disappointments that so many poultrymen experience—I want to help you solve your poultry problems—and I can do it.

A Complete Poultry Education

I have made it possible for you to obtain right in your own home, during spare time, a complete—thorough—and practical a knowledge of poultry husbandry such as you could get nowhere else except at an agricultural college.

In a course of lessons taught by mail, I have completely covered the science of poultry husbandry and made it so plain and simple that anybody can understand it. I give you knowledge it has taken me a lifetime to acquire.

I show you how I make hens pay a big profit each year. I show you how I got 2,364 eggs from ten hens in a year. I show you how to feed for a big egg and meat production, how to select a site for your poultry plant and how to build your houses (right here I save you many times the price of the course)—how to get winter eggs and spring broilers—how to incubate and raise baby chicks—how to mate and breed—how to avoid and treat poultry diseases—how to show and win at poultry shows—how to dress and market poultry for the biggest profits. In other words there is no phase of poultry culture that you are not taught thoroughly. Hundreds of our students tell us that each lesson is worth the price of the whole course.

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BUTTERCUP PULLETS, HENS, cockerels for sale. Cox's Buttercup Yards, Marshall, Michigan. 10-12

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SILVER SPANGLED HAMBURGS. Black Diamond strain. Highest honors at Madison Square and leading shows of America. Eggs, \$3.00 and \$5.00 per 15. If you want the best and birds that can win in any competition, you should order stock or eggs from Will L. Clark, Sullivan, Ohio. 3-16tf

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HOUDANS.

HOUDANS. Proprietor all Peterson's. Also book, 20c. Eggs, stock. Dr. Wight, Bolster's Mills, Me. 11-13 tf

HOUDAN COCKERELS from healthy stock, \$3 to \$5. T. E. Meyer, Lombard, Ill. 10-12

LAKENVELDERS.

LAKENVELDERS—GOOD yearling fowls and fine young stock at reasonable prices. C. E. Patterson, Cardington, Ohio. 10-11

LANGSHANS.

BLACK LANGSHANS—Hagerstown, Philadelphia, winners. Stock for sale. Satisfaction guaranteed. Levi Fishel, Dillsburg, Pa. 10-12

DURING 1915 WE WON 25 firsts; our 30 competitors, 15. Robinson's Langshans, South Weymouth, Mass. 10-12

CHOICE BLACK LANGSHANS—Special prices until December 1. Show birds a matter of correspondence. Mrs. Ray Marr, Chatsworth, Ill. 10

S. C. WHITE LEGHORNS.

TOM BARRON'S ENGLISH Single Comb White Leghorn cockerels for sale. Bred from stock with high egg records for generations. Write for prices and description. Bear Den Poultry Farm, Wheeler, Ill. 8-10

SINGLE COMB WHITE Leghorns. Young's strain, direct, chalk white (no brass) heavy record winter layers. 800 yearling breeders, \$1. each; also cockerels. Hedgewood Farm, Tiffin, Ohio. 8-10

PULLETS, YEARLING HENS, any number. Wyckoff Single Comb White Leghorns. 25 years in this business. Hundreds of customers, largest plants say I furnish greatest layers possible. Circulars, low prices, full information. C. N. Reynolds, Canton, Pa. 7-10

\$1.00 EACH—SINGLE COMB WHITE Leghorns, pullets and cockerels, yearlings and cocks. Shipped anywhere. As many as desired. Write for catalogue. Woodworth Farm, Wilton, Conn. 8-10

S. C. WHITE LEGHORNS. Young's strain. Splendid shape and color. Exhibition or breeding birds at low prices. J. A. Shine-man, Canajoharie, N. Y. 9-11

TOM BARRON ENGLISH White Leghorn pullets or cockerels, \$1 to \$2.50. From 250-egg imported, trapnested, pedigreed hens, \$5. J. R. Mooney, Butler, Missouri. 9-11

CHOICE WHITE LEGHORN yearling pullets, business layers, exceptional quality, \$10.50 dozen. William Jacobs, Salem, Ohio. 9-11

TOM BARRON 254-EGG STRAIN—April and May cockerels, \$2.00 up. Must make room for my pullets. 50c added each month after Nov. 1. Cherrycroft Farm, R. F. D. B., Omaha, Neb., direct imported and breeder. 10

S. C. WHITE LEGHORNS—Egg production my specialty. A. F. Tate, Toledo, Ill. 10

SINGLE COMB WHITE Leghorns—196-egg strain; blue-white quilled, scoring to 96. Satisfaction guaranteed. George W. Wolfrum, Carey, Ohio. 10-12

FAIVRE'S SINGLE COMB WHITE Leghorns, two best strains in the world, bred separately. Winners for any show or laying contest; reasonable. Cocks, hens, cockerels, pullets and foundation flocks. Mistletoe Poultry Farm, Greenville, Pa. 10-12

TOM BARRON'S PRIZE winning White Leghorns made highest egg record. My stock is from imported birds of 283-egg strain. Have some very choice cockerels and pullets for sale. Milton Duncan, Ambia, Indiana. 10

HUNDREDS OF CHOICE EARLY S. C. W. Leghorn pullets at great bargains. Also White Wyandottes (Barron strain) and some other varieties. We prepay expressage. Cedar Hill Farm, Saugerties, N. Y. 10

FOR SALE—150 FINE Single Comb White Leghorn pullets, Young strain, April and May hatched, 75c to \$1.50 each. Wales Leghorn Farm, Downers Grove, Ill. 10

SAVE MONEY! BUY NOW! Single Comb White Leghorns. Good vigorous stock. 200-egg strain. Ten years successful breeding for egg production and exhibition. Alba Farm, Jamestown, Pa., R. 40. 10-12

FOR SALE — SEVERAL hundred S. C. White Leghorn yearling hens, pullets and cockerels. Young-Wyckoff strain. Range raised. Also incubators and brooders. Everything goes. Bargain prices. J. B. Younglove, Milan, Mich. 10

S. C. WHITE LEGHORNS—Young strain. 500 yearling hens, 1000 April hatched pullets. Prices reasonable. Satisfaction guaranteed. Miller Poultry Farm, Box T, Lancaster, Mo. 10-12

YOUNG'S STRAIN SINGLE Comb White Leghorns, grand low-tailed cockerels, \$3.00 each. Meadow Farm, Coulterville, Ill. 10

COCKERELS — BARRON SINGLE Comb White Leghorns, choice, vigorous, bred from 200-egg strain heavy laying blood lines to improve your flock. Beautiful birds with superior laying qualities. Believe I can help and please you. Circular free. B. J. Woodmansee, Highland, Ohio. 10-12

BLANCHARD-WYCKOFF SINGLE Comb White Leghorns. Fine hens \$1.00 now, \$10.00 per dozen, shipped C. O. D. Cocks, cockerels. Send for circular. W. Albers, Lombard, Ill. 10

500 S. C. WHITE LEGHORN yearling hens, ready for business, \$1 each. Satisfaction guaranteed. Benjamin Stower, Linlithgo, New York. 10

WYCKOFF BRED-TO-LAY S. C. White Leghorn pullets. May hatched, \$1.00 each. Harold Gould, Lake Grove, N. Y. 10

FOR SALE—CHOICE Single Comb White Leghorn cockerels from our heavy laying strain, \$3.00 each, two for \$5.00; strong, vigorous, healthy. Gault Egg Farm, Champaign, Illinois. 10-12

SINGLE COMB WHITE Leghorn cockerels from males scoring 90 and from a 200-egg strain. Price \$1.00. Mrs. K. W. Cleland, Capron, Ill., R. R. 2. 10

BLACK LEGHORNS.

IMPORTED ENGLISH S. C. Black Leghorns, 220-egg strain, also winners at all leading shows. Write. Holland Bros., Mastic, Iowa. 9-2

BUFF LEGHORNS.

ROSE COMB BUFF Leghorns. Madison Square winners. Catalog. Howard J. Fisk, Box A, Falcoer, N. Y. 4-16-1yr

ROSE COMB BUFF Leghorn cockerels, \$1.00, \$2.00. Better ones if wanted. Dr. A. B. Slick, Naperville, Ill. 8-10

SINGLE COMB BUFF Leghorns for sale. E. Slate, South Hammond, New York. 10-12

LEGHORNS—SEVERAL VARIETIES.

50,000 SINGLE COMB White, Buff, Brown stock. Three weeks chicks. Catalog, stamp. Failing Poultry Farm, La Fargeville, New York. 10-12

SINGLE AND ROSE COMB White Minorcas. Cockerels for sale. F. W. Schmidt, Princeton, Wis. 10-11

BLACK MINORCAS.

CHAMPION S. C. BLACK Minorcas—Winners at Madison Square, Palace, Hagerstown, Philadelphia, Memphis, Atlanta, Augusta. Large, vigorous April and May hatched cockerels, \$3.00 and up, all bred from Madison Square or Hagerstown prize males. Exhibition cockerels a specialty. Satisfaction guaranteed. R. H. Anderson, Lynchburg, Va. 10-12

SINGLE COMB BLACK Minorcas—Northrup strain. Cocks, hens, cockerels and pullets for sale. Satisfaction guaranteed. J. L. Burgwin, Coats, Ohio. 10-12

ROSE COMB BLACK Minorcas. Exhibition and utility stock, and eggs for hatching at all times. Send for our large catalog. G. A. Clark, Seymour, Ind. 6-16-1yr

BLACK MINORCAS—COCKERELS. pullets. Strong, large fowls. Heavy layers of large eggs. Overstocked. Cockerels cheap. Henry Wallis, Delavan, Wis. 9-11

BUFF MINORCAS

BUFF MINORCAS—5 pens, young, \$10.00 each; yearling pen, \$15.00. Williams strain. John Hacker, Box A, Marissa, Ill. 10

BUFF MINORCAS. EXHIBITION stock for fall fair; young and old stock. William Williams, 1102 West 52nd, Los Angeles, California. 8-10

BUFF MINORCAS—Watch the wave of popularity of this worthy new variety. Are fine layers, hardy and tame. Get in early to reap the harvest. Won 5 firsts at last Chicago Coliseum show. My prices for exhibition stock and breeders are very reasonable. Supply limited. Buy early. E. Schmidt, Hazelrigg, Ind. 10-12

WHITE MINORCAS.

ROSE COMB WHITE Minorcas. Young stock from our Coliseum and Melrose Park blue ribbon winners for sale. Prices reasonable. E. Fetzer, Melrose Park, Ill. 9-11

MINORCAS—SEVERAL VARIETIES.

R. C. MINORCAS—Black and white, Mrs. Geo. Clay, Savanna, Ill. 10-12

BLUE ORPINGTONS.

BLUE ORPINGTONS — CATALOG free. Hacker Poultry Co., Marissa, Ill., Box A. 10

BLUE ORPINGTONS. Extra fine birds reasonable. Rev. W. Berberich, Groton, New York. 11-15-1f

BUFF ORPINGTONS.

SINGLE COMB BUFF Orpington cockerels and hens for sale; fine birds. Satisfaction guaranteed. Hy. Wolfe, Marissa, Ill. 10

EARLY HATCHED BUFF Orpington cockers. \$5.00 value, sent on approval at half price during this month. C. Steckel, White Hall, Ill. 10-12

BUFF ORPINGTON STOCK from prize-winners and layers, for sale cheap. Clyde Cusick, Allendale, Ill. 9-11

WHITE ORPINGTONS.

SINGLE COMB WHITE Orpington cockerels, hens and pullets. Large, vigorous, early hatched birds. Won blue ribbons last season at seven shows, including Nebraska State show. \$3.00 each, 2 for \$5.00. Shipped on approval. R. B. Murphy, Shenandoah, Iowa. 10

WHITE ORPINGTONS — Seven-pound cockerels. Extra fine pullets. Guaranteed to win. Park Poultry Yard, Forest, Ohio. 9-11

50 LARGE WHITE Orpington cockerels, February hatched, \$2 to \$5.00. Modglin's White Orpington Yards, Metropolis, Ill. 9-11

ALDRICH COCKERELS and pullets. Description and prices on request. Art. F. Linders, Baldwin, Ill. 9-11

RHODE ISLAND REDS.

ROSE AND SINGLE COMB Rhode Island Reds, bred from prize winners. Cockerels and pullets, \$2.00 up. Geo. J. Seifert, Mt. Vernon, Ind., Route 7. 10-12

S. C. R. I. REDS—Scranton strain. One year old hens and cocks, nice pullets and cockerels of the dark red, large size, good type kind. C. A. Cutchins, Franklin, Va. 10-12

SINGLE COMB REDS of high quality. Selling out entire stock, including show winners. Bargain prices. Philip A. Seifert, Mt. Vernon, Indiana. 10-12

RHODE ISLAND WHITES.

STOCK FOR SALE—From the Great R. I. White Farm. Rose and Single Comb. \$6.00 per trio, \$10.00 per pen. H. Elchelmann, Waterloo, Ill. 10-12

RHODE ISLAND WHITES—Both combs. Hundreds of good cockerels and pullets. Prices very low. Circular free. West Shore Farm, Douglas, Michigan. 9-11

BARRED PLYMOUTH ROCKS.

PARKS 200-EGG BARRED Rock cockerels, \$3.00 up. Frederick Matteson, 3808 Woodley Lane, Washington, D. C. 10-12

THOMPSON'S BARRED ROCKS—Pullets, yearlings, cockerels. Catalog. Failing Poultry Farm, La Fargeville, N. Y. 10-12

BARRED ROCK COCKERELS \$1.50 each. Persian kittens for sale cheap. Won 1st cockerel, Bushnell, score 92 points. Edwin Laux, Bushnell, Ill. 10-12

BARRED ROCK BREEDERS—Learn more about your variety, subscribe for National Barred Rock Journal, Union City, Mich., issued monthly and devoted exclusively to the Grand Old Breed. 50c a year, 3 years \$1, sample 5c. 3-16-1yr

BARRED ROCKS—Thompson's Ringlets direct. Bargains in exhibition and breeding birds. Cocks, cockerels and pens. Quality high, prices low. S. L. Gould, Table Grove, Ill. 9-11

BARRED ROCK PULLETS for sale that will make splendid layers. Also incubator eggs. L. F. Thompson, Hope, Indiana. 9-11

HOW DOES IT HAPPEN so often? Now again at the great Iowa State Fair we won 1-2-3 cockerel, 1-3 pullet—nearly a clean sweep. It is quality that counts. Do you want a good pullet-bred Plymouth Rock cockerel at a reasonable price? Write us. John Peterson & Co., Box 29, Randall, Iowa. 10

BUFF PLYMOUTH ROCKS.

BUFF ROCKS. TRAP-NESTED pedigreed stock. Prices very low, quality considered. Sunnyside Poultry Farm, Box 1002, Bristol, Vermont. 10

BUFF ROCKS—CRESCENT strain. Also White Rocks, Fishel strain. Both kinds are good layers, good shape, size and color. Rachel Sheppard, Pearl, Ill., Route 1. 10-12

PARTRIDGE PLYMOUTH ROCKS.

AMERICA'S PROVEN CHAMPION Partridge Rocks and Bronze Turkeys. See our adv. on page 1113. 2-15-1f

YOUNG AND OLD prize winning Noftzger's Partridge Rocks at pleasing prices. Frank Neudecker, Sleepy Eye, Minn. 10-12

PARTRIDGE PLYMOUTH ROCKS—Choice yearling hens, cockerels and pullets, \$2.00 each, 3 for \$5.00. Catalog free. Hacker Poultry Co., Marissa, Ill., Box A. 10-11

WHITE PLYMOUTH ROCKS.

200 FINE WHITE ROCK cockerels and hens for sale cheap. Fishel strain direct. Henry Heitkamp, New Bremen, Ohio. 10

FISHEL WHITE ROCKS—Blue ribbon winners. Yearling hens, cocks and young stock. State your wants. Free catalog. Whiteview Poultry Yards, Mishawaka, Ind. 10-12

WE WON AT OHIO State Fair over all other Ohio exhibitors. Early cockerels, egg record yearling hens, and tested cock birds. Pierce & Cushion, Box A, Wellington, Ohio. 10-11

COLFAX WHITE ROCKS—Special prices for October-November. Utility-Fancy. Show birds conditioned free. Get in touch with T. F. Richardson, "Colfax," Evanston, Illinois. 10-11

PURE BRED. APRIL hatched, White Rock cockerels \$1.50 if taken now. Fishel strain. Mrs. Peter Johnson, Decorah, Iowa. 10

WHITE ROCKS—Fine early hatched pullets and first-class breeding cockerels. Free circular. Hoch & Frederick, Box O, Chambersburg, Penn. 9-11

FISHEL WHITE ROCKS direct. Farm raised. Prominent winners under prominent judges. In health, constitutional vigor and standard requirements. They will please you. They are white, shapely, neat combed, and sure to please. A few good breeding and exhibition hens at \$2.00, \$3.00 and \$5.00 each. Booklet free. Plummer McCullough, Poultry Judge, Mercer, Pa. 12-15-1yr

COLUMBIAN PLYMOUTH ROCKS.

COLUMBIAN PLYMOUTH ROCKS—Enslein strain. T. J. Enslein, Hackettstown, N. J. 1-16-1yr

SPANISH.

WHITE FACED BLACK SPANISH—Stock and eggs for sale. My Spanish were winners at Indiana State Fair, 1916. J. R. Galloway, Elwood, Ind. 10-1

SPECKLED SUSSEX.

SPECKLED SUSSEX — CATALOG free. Hacker Poultry Co., Marissa, Ill., Box A. 10

FOR SALE—SPECKLED Sussex, 4 cock birds and some year old hens, or will exchange for Red Sussex pullets. P. H. Jones, 64 Forest St., Akron, O. 10

SPECKLED SUSSEX—Best of blood, \$5.00 each and up. Aug. D. Arnold, Box 77, Dillsburg, Pa. 10

SPECKLED SUSSEX. Choice stock priced reasonably. Rev. W. Berberich, Groton, New York. 11-15-1f

RED SUSSEX.

RED AND SPECKLED SUSSEX — Bred from New York and Chicago Club winners. Cocks, cockerels, pairs and trios for shows and breeding. Reasonable prices. H. H. & E. M. Coburn, Red Sussex Farm, St. Clair, Mich. 2-16-1f

SUSSEX—SEVERAL VARIETIES.

RED. SPECKLED. LIGHT Sussex—America's best. Stock very cheap now. G. H. Foster, Bloomington, Ind. 10-12

BLUE WYANDOTTES.

FOR SALE—BLUE WYANDOTTES. One cock and from 3 to 6 hens. My breeders this year. Must have room for young stock. J. A. Gauntt, Vincennes, Ind. 10

BUFF WYANDOTTES.

OWENS' GOLDEN MODEL Buff Wyandottes won all firsts, also shape and color specials at Ohio State Fair. Choice stock for sale. B. M. Owens, Shiloh, Ohio. 10-12

COLUMBIAN WYANDOTTES.

COLUMBIAN WYANDOTTES — Winter layers. Inquire R. C. Berkey, Salem, Ind. 10-12

COLUMBIAN WYANDOTTES of proven worth, at prices that are right. No order too large, none too small. Satisfaction guaranteed or money back promptly. Gilbert Poultry Farm, Whittier Rd., Haverhill, Mass. 10

COLUMBIAN WYANDOTTE SALE—Cockerels, bred-to-lay pullets. Write L. S. Spafford, Martville, N. Y. 10

COLUMBIAN WYANDOTTES—Michigan's Champion strain, again leading winners 1916 State Fair, Detroit. My birds have won at principal shows of the country, including Panama-Pacific Exposition. Young and old stock, reasonable. Arthur Schaack, 605 Rohms Ave., Detroit, Mich. 10

COLUMBIAN WYANDOTTES that showed their superior quality by winning more first, second and third prizes this season at Chicago, Minneapolis, Winnipeg and Minnesota State Fair, than all my competitors combined. Mating list free. Geo. A. Kersten, Washburn Park, Minneapolis, Minn. 4-16-1yr

COLUMBIAN WYANDOTTES—Remarkable show room and laying contest records. At Panama-Pacific Exposition I won four firsts, all specials. American Poultry Association medal. Young stock for sale. J. O. Speed, Chestnut Ave., Webster Groves, Mo. 9-12

PARTRIDGE WYANDOTTES.

FOR SALE—CHAMPION strain Partridge Wyandottes for the fall and winter shows. Satisfaction guaranteed. Lakeview Poultry Yards, Port Huron, Mich. 10

PARTRIDGE WYANDOTTES — Grand stock. Write for prices. James L. Coulter, New Wilmington, Pa. 10-12

PARTRIDGE WYANDOTTES — Our fall winnings are great; our stock is the laying strain. 50 fine cockerels, \$2.00 to \$5.00. Raymond Heald, West Chester, Pa. 10-12

WHITE WYANDOTTES.

WHITE WYANDOTTES. Fishel strain, young and old stock for sale. Edw. C. Wiesenborn, Grand Chain, Ill. 8-10

WHITE WYANDOTTES — Bred to lay. Send for price list. G. W. Schottmann, Montrose, Ill. 9-11

PEDIGREED COCKERELS—Trap nested, high record, vigorous stock. C. A. Place, Sterling, Mass. 9-11

WHITE WYANDOTTE COCKERELS from laying strain. Each, \$1.50. Clyde Cusick, Allendale, Ill. 9-11

EARLY HATCHED WHITE Wyandotte cockerels and pullets, \$1.25 to \$2.50. Large thrifty birds well up to standard requirements. Shipped on approval. G. R. Currie, Montello, Wis. 10-11

WHITE WYANDOTTES—STOCK. Vigorous, selected cockerels of quality. Guaranteed bargains. J. F. Garrison, Mt. Vernon, Ill. 10-12

W. WYANDOTTES — Heavy layers and show birds, 50 each, cockerels, hens and pullets, \$2 and \$3 each. Satisfaction guaranteed. A. J. Shannon, Appleton, Wis. 10-12

SEVERAL VARIETIES.

FOR SALE—BARRED Rocks, also R. I. Reds, both combs. All birds shipped on approval. Freed Perry, Metamora, Ill. Reference, Metamora Bank. 10

RHODE ISLAND WHITE cockerels, Mammoth Pekin Drakes, Homer and Carneau pigeons. John Rgth. Morton, Ill. 10-12

BOLITHO COCKEREL SALE—Black Leghorn, Brown Leghorn, Silver Camping, White Face Black Spanish, \$3 each. Box 433, Rockaway, New Jersey. 10

SUMATRAS, ORPINGTONS. White Rocks, James A. Daley, Licensed Poultry Judge, Mohawk, Mich. 11-15-1 yr

TURKEYS.

AMERICA'S BEST Breeding Giant Bronze Turkeys. See our advertisement on page 1113. 5-15-tf

AMERICA'S LEADING WINNERS in Giant Bronze Turkeys and Partridge Plymouth Rocks. See our adv. on page 1113. 2-tf

DUCKS.

PEKIN DUCKS — Lowest prices, finest quality. Velvet-neck strain. John Gardner Williams, 16 Valley View, Summit, New Jersey. 10

SELECT FAWN AND WHITE Runners—Stock \$1.50 each. Noble Cusick, Allendale, Ill. 10

BUFF ORPINGTON DUCKS for sale. No. 1 quality. Fred Wheeler, Jr., Peterson, Ia. 10-12

A FEW WHITE INDIAN Runner ducks for sale. W. R. Scrivner, Dahlgren, Ill. 10-12

A GRAND LOT of ducks and geese, all varieties bred from our Panama-Pacific winners. Wild geese, \$10 a pair. Pea fowl. Dawson Bros., Franksville, Wis. 8-12

GENUINE MALLARDS, \$2.50 pair. Grey Call ducks, \$3.00 pair. Rumpless, Frizzles, Silkies. Lee Kyburz, Honey Creek, Wis. 8-10

90 ROUEN DRAKES and ducks with size and color. Elmer L. Duttera, Littlestown, Pa. 9-11

DUCKS—COLORED MUSCOVY, all ages. Bred in the Blue Grass. Harry Daly, Maysville, Ky. 9-11

GEESE.

AFRICAN AND TOULOUSE from New York winners. Mammoth Pekin ducks, White and Pearl Guineas. Circulars. Roy Pardee, Islip, N. Y. 9-11

PEA FOWL.

20 PAIR BEAUTIFUL Pea fowl. Also Phoenix fowl. Exchanges made. U. Pheasantry, Poughkeepsie, N. Y. 10-12

PHEASANTS.

LADY AMHERSTS, GOLDEN, Mongolian, Silver, Reeves, Ringnecks. Eggs in season. Froelk Pheasant Farms, Wickliffe, Ohio, R. F. D. 10-11

PIGEONS.

PEDIGREED RACING HOMERS — Send for list. Riverview Racing Loft, 2137 Belmont Ave., Chicago, Ill. 10

85c PAIR MATED LARGE Homers. Fancy pigeons. Wholesale prices. Carneau, \$1.60 pair. Colored catalog, 25c. Exchanges made. Ferd. Sudow, Poughkeepsie, N. Y. 10-12

WANTED—5,000 COMMON or Homer Pigeons. Pay at least 25c pair. Market Poultry wanted. D. Gilbert, 1123 Palmer St., Philadelphia, Pa. 1

"PIGEONS"—the finest pigeon magazine, \$1.00 a year, or send 25 cents for four months' trial. Pigeons Magazine, 953 Advertising Bldg., Chicago. 5-14-tf

CARNEAUX—MATED and working, \$1.50 per pair. Weber Bros., Maugansville Md. 9-11

WANTED TO BUY—Mated pairs of Homing Pigeons, Carneau, Fantails and Belgian Hares. Z. G. McKay, Lyons, Iowa. 8-10

\$\$\$ IN PIGEONS! Start raising squabs for market or breeding purposes. Make big profits with our Jumbo Pigeons. We teach you. Large, free, illustrated, instructive circulars. Providence Squab Co., Providence, R. I. 10-16-tf

I OFFER GUARANTEED MATED Homers in any quantity at \$1.00 per pair. Beautiful White Homers, \$1.50 pair. Squab companies challenged to produce better stock at twice this price. Get my prices on Runts, Carneau, Maltese hens, and save dollars. Squab Manual, 25c. Charles A. Gilbert, 222 Callowhill St., Philadelphia, Pa. 10

ORNAMENTAL

FRIZZLES, SILKIES, Rumpless, Cochins, Bantams, Gray Calls, (Circular), Lucy Bailey, Albion, Ills. 9-11

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\$500 PER YEAR raising canaries; the new industry; start at home; spare time; very little capital necessary; we show you how. Particulars, address Monarch Specialty Co., Box 185, Evanston, Ill. 9-11

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300 RABBITS—ALL KINDS. Fine stock. Lowest prices. Guinea pigs. Angora, Persian cats. Colored catalog, 25c. Book on breeding, 35c. U. Pheantry, Poughkeepsie, N. Y. 10-12

BELGIAN HARES — Get our quotations. Hare book and catalog, five stamps. Failing Poultry Farm, La Fargeville, N. Y. 10-12

RABBITS—WHITE, BLACK and Spotted. Breeders at \$1.00 each. John Hass, Bettendorf, Iowa. 10-12

FLEMISH GIANTS, RUFUS Reds, Belgian hares and 1,000 Guinea pigs on sale. Stamp. Canada's Rabbitry, 258 York St., Denver, Colo. 10-12

FOR SALE—IMPORTED German Checkered Giants, Black Siberian hares, New Zealand Belgian Hares and Flemish Giants, Lopears and imported German Greys. Park View Rabbitry, Poughkeepsie, N. Y. 10-12

EXHIBITION PEDIGREED FLEMISH Giants, Rufus Reds on sale cheap. Anderson's Hare Farm, 2421 Ogden, Denver, Colo. 9-11

BELGIAN HARES — CHOICE thoroughbred stock at reasonable prices. Crescent Rabbitry, Champaign, Ill. 9-11

BELGIAN HARES of quality, that please. A. Ziegler, Bippus, Ind. 9-11

GUINEA PIGS.

BOOKLET BREEDING GUINEA Pigs. 15c. Warren Fluck, East Greenville, Pa. 4-16-1yr

DOGS.

NICELY MARKED SCOTCH Collie pups \$6. Meadow Farm, Coulterville, Ills. 10

PEDIGREED COLLIE PUPS. Males, \$10; females, \$5; London Hope at stud, fee \$10. Plummer McCullough, Mercer, Pa. 9-15tf

SCOTCH COLLIES — Get our quotations. Catalog, stamp. Failing Poultry Farms, La Fargeville, N. Y. 10-12

COLLIE MATRON — Perfect markings; very reasonable. Mrs. J. E. Walcott, Angola, Ind. 10

SCOTCH COLLIES — HALF GROWN and weanling puppies. Matron in whelp; one open; pedigree and priced to sell. D. A. Farwell, Houghton, N. Y. 10

60 FOX TERRIERS—Any age. Best rat, pet or watch dog. T. H. Kaldenberg, Pella, Iowa. 10-12

FERRETS

FOR SALE — FERRETS. White and brown, all sizes. Dozen lots, pairs and singles. C. E. Crow, New London, O. 9-11

FOR SALE, FERRETS. Either color, single, pairs or dozen lots. F. G. Held, New London, Ohio. 8-11

2000 FERRETS FOR SALE. Either color, large or small. Mated pairs or dozen lots. Guaranteed choice healthy stock. Book and price list free. Levi Farnsworth, New London, Ohio. 8-11

INCUBATORS AND BROODERS.

FOR SALE — CANDEE, Hall, Newtown incubators cheap. J. Houck, Tiffin, Ohio. 9-11

POULTRY SUPPLIES.

HAVE YOU EVER used second-hand packages for your fruit and vegetables? We will positively save you money and give as serviceable a package as new ones. We also deal in egg cases. Write us. The Empty Package Supply Co., 32 Broadway, Brooklyn, N. Y. 10

POULTRY SUPPLIES—Poultry supplies of all kinds. Best automatic feeders, fountains, bone mills, and other fixtures, foods, remedies, etc. Lowest prices. Circular free. Also pigeon, kennel and bee supplies. Eureka Supply House, Box A, Aurora, Ill. 10-12

CLOSING OUT SALE. We have closed our poultry plant and will sell 2 Halls incubators, 16,000 eggs each; 4 Halls Brooding systems, 35 hovers each; 2 Halls colony brooders, 6 two-section exhibition coops; chick water fountains; hatching eggs; chick boxes; 100 gates, 4x5 feet; 2,000 lbs. beef scrap; 500 S. C. White Leghorn yearling hens; everything will be sold regardless of price. Write for our price or make us an offer on anything you are interested in. Johnston Stock & Farming Co., Marion, North Dakota. 8-10

WANTED.

WANTED—SOMEONE WHO CAN make poultry pay. 1000 Single Comb White Leghorns, trap-nested records up to 245 eggs, \$65.00 per month and percentage of net profits. No novice or beginner need apply. Address O. H., American Poultry Journal, Chicago, Ill. 10-11

POULTRY MANAGER—Ten years experience, desires position anywhere. State full details first letter. Address Poultryman, care American Poultry Journal 10

WANTED—A SCIENTIFIC poultry raiser and truck farmer as a business partner by a childless widow living on her valley farm. Box 22, Loaf, Oklahoma. 10

WANTED—CANDEE, NEWTOWN, Hall incubators. Address Houck Hatcheries, Tiffin, O. 9-11

WANTED—SECOND HAND incubators, 30 360-egg size. One 10,000-egg Mammoth. Quote lowest cash price. South Kenton Poultry Farm, Kenton, Ohio. 9-10

MEN OF IDEAS and inventive ability should write for new lists of "Needed Inventions," "Patent Buyers," and "How to Get Your Patent and Your Money." Randolph & Co., Patent Attorneys, Dept. 319, Washington, D. C. 10-15-1yr

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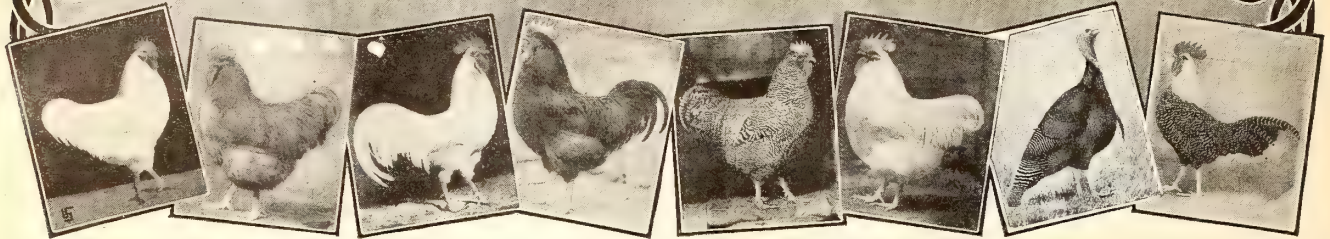
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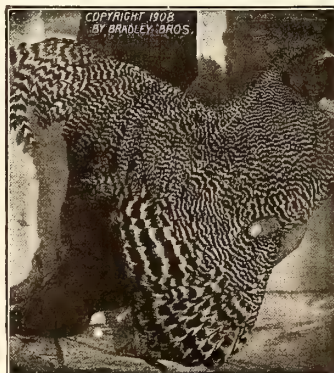


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Cocks, 1-3 Old Pens, 2-3
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The Coliseum Sweepstake Cup
Total Points 66
Nearest Competitor - 43

SILVER CAMPINES

3 Hens in Single Class
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3 Old Pens 3 Young Pens
Coliseum Sweepstake Cup
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Cocks	1st, 2nd, 3rd, 4th and 5th
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Pullets	1st, 2nd, 3rd, 4th and 5th
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VOL. 47, NO. 11

NOVEMBER, 1916

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AMERICAN POULTRY JOURNAL



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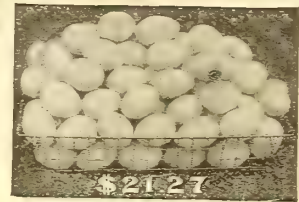
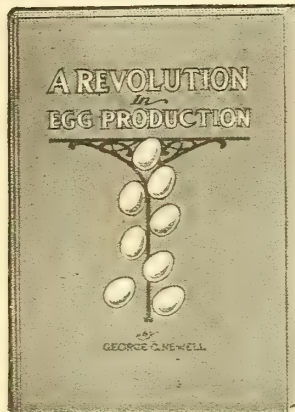
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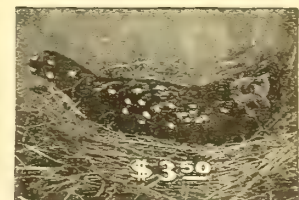
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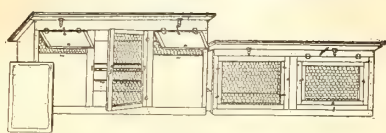
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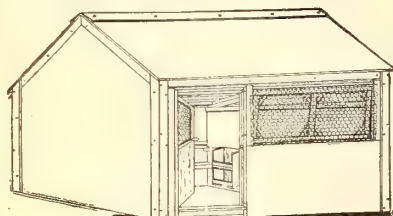
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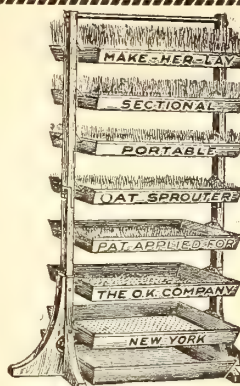
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TABLE OF CONTENTS

	PAGE
U. R. FISHEL—PIONEER POULTRYMAN.....	1187
MANAGEMENT OF PULLETS FOR WINTER EGGS.....	<i>Maurice H. Decker</i> 1188
SEX CONTROL IN POULTRY BREEDING.....	<i>Herb E. Sharp</i> 1190
HOW TO SECURE EXHIBITION QUALITY.....	<i>C. H. Latham</i> 1192
WEIGHT, NOT NUMBERS, EGG VALUE STANDARD.....	<i>T. Harris Boughton</i> 1194
EDITORIAL	1196
American Poultry Association Membership Fees—Keep Poultry—Feed Liberally—Sex Control— The National Dairy Show—The Tight Hat Band—Winner in Article Contest.	
DR. WOODS' NOTES AND COMMENT.....	1201
HORTICULTURE FOR POULTRY KEEPERS.....	1204
QUESTIONS AND ANSWERS.....	1210
MONTHLY PRIZE CONTEST DEPARTMENT.....	1232
RECENT INVENTIONS FOR POULTRYMEN.....	<i>Lester L. Sargent</i> 1236
READERS' EXPERIENCE DEPARTMENT.....	1238
HOME AND THE TABLE.....	<i>Helen T. Woods</i> 1242
OUT OF THE EAST.....	<i>P. K. White</i> 1248
SEEN AND HEARD IN THE MID-WEST.....	<i>Shepard Strong</i> 1250
ITEMS OF INTEREST IN THE POULTRY WORLD	1253
ASSOCIATIONS AND SHOWS.....	1254
WINNINGS OF AMERICAN POULTRY JOURNAL ADVERTISERS	1260
SHOW DATES	1261

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INDEX TO GUARANTEED ADVERTISERS

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Abbott, O. M., Whiteland, Ind.....1252	Cross, Frank, Montague, Mass.....1248	Houstonia Poul. Farm, S. Charleston, O.1234
Aldrich Poultry Farm, Columbus, O.....1203	Crotser, E. A., Fulton, Mich.....1218	Howison, Chas., Sandwich, Ill.....1265
Allen Co., S. L., Philadelphia, Pa.....1206	Cudahy Packing Co., Chicago, Ill.....1243	Hubbard, C. H., Lime Rock, Conn.....1264
Almendinger, A. F., Buffalo, N. Y.....1264	Curtis, E. G., Atsion, N. J.....1274	Hughes, R. R., Charleswood, Ont., Can.1224
Alum. Marker Works, Beaver Falls, Pa.....1265	Curtiss Co., W. R., Ransomville, N. Y.....1253	Hummel, S. A., Freeport, Ill.....1253
Amer. Aluminum Mfg. Co., Lemont, Ill.....1214	Cyphers Incubator Co., Buffalo, N. Y.....1245	Humphrey & Sons, Joliet, Ill.....1207
American Bee Journal, Hamilton, Ill.....1224		
American Milling Co., Peoria, Ill.....1183	Darling & Co., Chicago, Ill.....1251	Ironclad Incubator Co., Racine, Wis.....1246
American Poultry Adv., Syracuse, N. Y.1265	Davis, M. C., Woodstock, Ill.....1267	Ives, Ives & Ives, Guilford, Conn.....1248
American Poultry Journal, Chicago, Ill.	Dawdy & Dawdy, Greenville, Ill.....1218	
Illinois.....1179-1185-1222-1184-1273	Deege Grover, Quincy, Ill.....1264	Jacobus, M. R., Ridgefield, N. J.....1265
Am. School of Poul. Husbandry, Mo.....1219	Deem's Buckeye Yards, Eaton, Ohio.....1238	Jensen, Carl J., Waukegan, Ill.....1212
Andrews, J. W., Dighton, Mass.....1221	Demberger, L. J., Stewartsville, Ind.....1273	Johnson, Frank, Chicago, Ill.....1264
Andrews, S. H., Mineola, N. Y.....1264	Des Moines Inc. Co., Des Moines, Ia.....1223-30	Johnson Co., M. M., Clay Center, Neb.....1211
Andrews Co., O. B., Tenn.....Inside bk. cover	Detroit Engine Works, Detroit, Mich.....1230	
Arcaidy Farm Milling Co., Rondout, Ill.....1265	Deyoe's, Dodgeville, Wis.....1244	Kaup, F. A., Glen Ellyn, Ill.....1231
Astle, Milan C., Momence, Ill.....1258	Doerhoefer, Lewes P., Anchorage, Ky.....1236	Keefe, C. A., Muskegon, Mich.....1264
Atherton, W. B., Randolph, Mass.....1265	Dorman, Benj., New York, N. Y.....1229	Keeler, Chas. V., Winamac, Ind.....1231
Atlas Company, Lincoln, N. J.....1200	Du Pont de Nemours & Co., Delaware.....1230	Keipper Cooping Co., Milwaukee, Wis.....1253
Automatic Trap-Nest Co., Kenosha, Wis.1202		Keller, Ira C., Prospect, Ohio.....1216
	Eakin, F. M., Bucyrus, Ohio.....1265	Kennedy, J. Fred N., Birch Cliff, Can.....1248
Baker, C. R., Abilene, Kansas.....1205	Elliott Poultry Farm, Mansfield, Ohio.....1218	Kentucky Litho. Stone Co., Louisville.....1228
Balch & Brown, Manchester, Conn.....1258	Empire Poultry Assn., Mineola, N. Y.....1259	Kitselman Bros., Muncie, Ind.....1224
Bales, J. S., Springfield, Ill.....1265	Enslin, T. J., Hacksettstown, N. J.....1180	Klein-Lambert Co., Chicago, Ill.....1180
Banks, M. H., Dillsburg, Pa.....1264	Everfresh Egg Farm, Ionia, Mich.....1253	Kulp, W. W., Pottstown, Pa.....1248
Barker, Fred W., Westfield, Ind.....1225	Ewing & Tomich, Creston, Ohio.....1212	
Barker, M. S., Thornstown, Ind.....1221		Lange, J. G., Detroit, Mich.....1265
Barrett, Bernice H., Fortville, Ind.....1205	Faha, Jr., Frank, Dyersville, Iowa.....1229	Latham, C. H., Lancaster, Mass.....1240
Bartling, Chas. G., Springfield, Ill.....1253	Farm Journal, Philadelphia, Pa.....1230	Lee Co., Geo. H., Omaha, Neb.....1263
Bawden, John, Ridgetown, Ont., Can.....1249	Faulds, T. A., London, Ont., Can.....1233	Lee, Leo A., Chicago, Ill.....1249
Bayardorff, M., Huguenot Pk., N. Y.....1234	Feich, I. K., Natick, Mass.....1180	Leithner, C. H., Elgin, Ill.....1200
Beach, Geo., Watson, New York, N. Y.....1264	Fernbrook Farm, Albany, N. Y.....1215	Licene Co., Chicago, Ill.....1234
Bear Brook Poul. Farm, Wakefield, Mass.1224	Ferris, P. J., Cuyahoga Falls, Ohio.....1264	Liceoff Co., Green Bay, Wis.....1264
Belgian Hare, Holmes Park, Mo.....1231	Fishel & Son, J. C., Hope, Ind.....1202	Lingeman, C., St. Louis, Mo.....1265
Bella Vista Farm, Kimmiswick, Mo.....1248	Fishel, U. R., Hope, Ind.....1242	Lo-Glo Elec. Incubator Co., New York.....1264
Belle City Incubator Co., Racine, Wis.....1265	Fogg, N. V., Mt. Sterling, Ky.....1265	Lone Oak Poultry Yds., Batavia, N. Y.....1218
Berberich, Rev. W., Groton, N. Y.....1264	Forge Works, C. A. S., Saranac, Mich.....1206	Longfield Poultry Farm, Bluffton, Ind.....1216
Bernard Co., Phillip, Sioux City, Iowa.....1242	Fouche Mountain Poul. Farm, Ark.....1235	Lord Farms, Methuen, Mass.....1206
Besse, C. W., Jefferson, Maine.....1249	Foxhurst Farm, Lime Rock, Conn.....1180	
Beuoy, Geo., Cedar Vale, Kansas.....1243	Frantz, O. C., Rocky Ford, Colo.....1248	McClave, Chas., New London, Ohio.....1265
Billings, B. M., Elyria, Ohio.....1233	Fraser, W. F., East Akron, Ohio.....1248	McConnell, J. V., Garden Grove, Cal.....1258
Bird Bros., Meyersdale, Pa.....1237	Friesner & Son, J. W., Bremen, Ohio.....1264	McConnell, W. A., Richmond, Ill.....1258
Blatchford's Calf Meal Factory, Illinois.1224		Madison Sq. Garden Show, New York.....1259
Bloese, Aug., Chicago, Ill.....1258	Gamco Chemical Co., Chicago, Ill.....1267	Mahon, Elton C., Norwood, Tenn.....1255
Blum, Frank, New Washington, Ohio.....1264	Gamewell, J. A., Little Silver, N. J.....1251	Mann Co., F. W., Milford, Mass.....1240
Bock, Oscar L., Council Bluffs, Iowa.....1231	Garbutt, Cora B., Darien, Wis.....1218	Mantle Lamp Co., Chicago, Ill.....1207
Boston Show, Boston, Mass.....1257	Garvey, J. W., Thayer, Ill.....1205	Marble Cliff Quarries Co., Columbus, O.1265
Bourne Mfg. Co., Melrose, Mass.....1212	Gassmann, Henry, Olney, Ill.....1252	Marquette, The, St. Louis, Mo.....1230
Bradley Bros., Lee, Mass.....1274	Gem Mfg. Co., Greenville, Ohio.....1253	Martin, Mrs. E. B., Downey, Cal.....1249
Brogden, Thos., Rush Lake, Wis.....1234	Gensch, F. M., Omro, Wis.....1258	Martin, John S., Port Dover, Ont., Can.1200
Brown Fence & Wire Co., Cleveland, O.....1207	Geneser Bros., Creston, Ohio.....1205	Martz & Son, A. E., Arcadia, Ind.....1198
Brown, John L., Anderson, Ind.....1233	Gerber, G. J., Dalton, Ohio.....1252	Mazelin, Joseph, Berne, Ind.....1264
Bruerton, M. M., Wakefield, Mass.....1218	Gilbert Poultry Farm, Haverhill, Mass.1264	Meadow Lark Farm, Elgin, Ill.....1232
Buckeye Incubator Co., Springfield, O.1208-09	Globe Elevator Co., Buffalo, N. Y.....1232	Meadow Lawn Poultry Yds., Michigan.1218
Buell, Mrs. L. R., Lake Geneva, Wis.....1267	Glory-Anna Poultry Yds., Louisville, Ky.1255	Mendenhall Co., B. W., Utah.....1253
Byers, C. S., Hazelrigg, Ind.....1181	Goddard & Sons, W. H., Muncie, Ind.....1243	Merchants Drug Co., Easton, Md.....1246
	Gordon, Jessie E., Spring Valley, Minn.1249	Merrell, Arthur, Solon Mills, Ill.....1264
	Grant, John, Richmond, Ill.....1265	Mersel, Alex., New York, N. Y.....1245
Cadwallader, T., Salem, O.....1258	Greater Chicago Show, Chicago, Ill.....1262	Metzger Mfg. Co., Quincy, Ill.....1224
Cairngorm Farm, Nottingham, O.....1210	Grove Hill Poultry Yds., Waltham, Mass.1205	Michigan Poultry Breeders Assn., Mich.1259
Candee Inc. & Brooder Co., N. Y.....1226-27		Minch, Philip J., Cleveland, Ohio.....1255
Carbola Chemical Co., New York, N. Y.1255	Halbach, H. W., Waterford, Wis.....1201	Mirimichi Poultry Farms, Foxboro, Mass.1202
Carpenter, W. W., E. Providence, R. I.....1183	Hales & Edwards Co., Chicago, Inside fr. cov.1180	Mittendorff, O. F., Lincoln, Ill.....1221
Carr Bros., Vineland, N. J.....1199	Hall, Luther J., Kenosha, Ill.....1236	Model Incubator Co., Buffalo, N. Y.....1257
Carter's Poultry Farm, Jonesdale, Wis.1258	Harbin, Edmond J., Riverside, Ill.....1218	Monmouth Farms, Freneau, N. J.....1202
Carver, A. A., Seville, Ohio.....1214	Harnly, Mrs. J. H., Zion City, Ill.....1245	Moore, R. H., Nellie, Ohio.....1218
Chicagot Co., Gambier, Ohio.....1214	Hayward, W. F., Westboro, Mass.....1212	Moore & Bowlus, Fremont, Ohio.....1253
Chicago & Alton R. R., Chicago, Ill.....1234	Heasley, Dr. L. E., Holland, Mich.....1222	Morris Farm, Bridgeport, Conn.....1267
Chiles & Co., Mt. Sterling, Ky.....1180	Henderson, W. W., Bridgeton, Mo.....1265	Morris Poultry Farm, Lebanon, Ohio.....1210
Clark Co., Newton, Mass.....1253	Hering, Frank E., South Bend, Ind.....1238-47	Morse's Wh. Legh. Farm, Belding, Mich.1218
Cleveland Hatchery, Cleveland, Ohio.....1236	Hess & Clark, Ashland, Ohio.....1229	Mountville Farm, Mountville, Va.....1264
Close-To-Nature Co., Colfax, Iowa.....1215	Hewes, Theo., Indianapolis, Ind.....1260	Muller & Co., Franklin R., Illinois.....1216
Coburn's Red Sussex Farms, Michigan.....1224	Hickory Farms, Townsend Har., Mass.....1218	Myers, C. N., Hanover, Pa.....1199
Cole, Frank C., Van Wert, Ohio.....1210	H. O. Company, Buffalo, N. Y.....1221	Myers, Frank, Freeport, Ill.....1265
Collins, W. H., New York, N. Y.....1255	Hodgson Co., E. F., Boston, Mass.....1245	
Comfort Chemical Closet Co., Toledo, O.1206	Holterman, W. D., Fort Wayne, Ind.....1254	National Poul. Band Co., Newport, Ky.....1274
Conkey Co., G. E., Cleveland, Ohio.....1231	Homestead Camp Farm, Wayland, Mass.1204	Natural Hen Inc. Co., Los Angeles, Cal.1246
Cook & Sons, Wm., Scotch Plains, N. J.1233	Hooker, Henrietta E., S. Hadley, Mass.1265	Nelson, Walter P., Bayonne, N. J.....1210
Cooke, Geo., Racine, Wis.....1258	Hope Poul. Breeders Assn., Hope, Ind.....1181	Neusitz Co., W. A., St. Louis, Mo.....1229
Corn Products Refin. Co., New York.....1254	Houck Hatch. & Breed. Co., Tiffin, O.....1218	New Eng. Typewr. Ex., Hartford Conn.1253
Correct Hatcher Co., Leesville, Ohio.....1246		



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Newell & Gordinier, Troy, N. Y.1258
 Newtown Giant Inc. Corp., Virginia, Ill.1213
 Niemann Bros. Mfg. Co., Mt. Olive, Ill.1235
 Nixson, Chas., Washington, N. J.1248
 Norwich Auto Feeder Co., Connecticut.1243
 Novak Poultry Farm, Racine, Wis.1214
 Nye, C. C., Harristown, Ill.1249

O. K. Company, New York, N. Y.1180
 Oakes Mfg. Co., Tipton, Ind.1221
 Oconomowoc Poul. & Pet Stk. Assn., Wis.1262
 Oculum Company, Salem, Va.1212
 Ohio Marble Co., Piqua, Ohio.1212
 Old Forge Poul. Farm, Spr. Grove, Pa.1212
 Olle, P. J., Racine, Wis.1225
 Orchard Farm, Noroton Heights, Conn.1216
 Owen Farms, Vineyard Haven, Mass.1186

Pabst Stock Farm, Oconomowoc, Wis.1205
 Palmer & Son, D. F., Yorkville, Ill.1255
 Pape, Chas. G., Fort Wayne, Ind.1212
 Parke, Davis & Co., Detroit, Mich.1254
 Parks, J. W., Altoona, Pa.1257
 Pasture Lab. of America, New York.1265
 Payne Bros., Portland, Conn.1180
 Peerless Hatchery, Chicago, Ill.1218
 Pennington, J. S., Plainfield, Ill.1219
 Penn. Poultry Farm, Lancaster, Pa.1248
 Perfect Port. Poul. House Co., Chicago.1224
 Perfect Poul. Supply Co., Lynbrook, N. Y.1251
 Perry, Louis H., Clay, N. Y.1264
 Pilling & Son Co., Philadelphia, Pa.1205
 Pinecrest Orchards, Groton, Mass.1212
 Pine Ridge Farm, Southboro, Mass.1212
 Pittsburgh Poultry Show, Pittsburgh, Pa.1257
 Pittsfield Poultry Farms Co., Mass.1274
 Platt, F. L., Swanton, Ohio.1198
 Ply. Rock Squab Co., Melrose, Mass.1246
 Poorman, John G., Tinley Park, Ill.1199
 Pope & Pope, Louisville, Ky.1229
 Potter & Co., Downers Grove, Ill.1235
 Poultry Shows.1262-1257
 Powers, J. H., Chicago, Ill.1218
 Prairie State Inc. Co., Homer City, Pa.1180
 Pratt Co., B. G., New York, N. Y.1238
 Pratt Food Co., Philadelphia, Pa.1215
 Putnam, L., Elmira, N. Y.1180

Quaker Oats Co., Chicago, Ill.1253
 Queen Incubator Co., Lincoln, Neb.1217
 Quincy Poultry Farms, Quincy, Ill.1267

Ralston Purina Co., St. Louis, Mo.1230
 Rau & Fry, Indianapolis, Ind.1225-28
 Rawnsley-Shields Poul. Farm, Ohio.1232
 Read, W. E., Maywood, Ill.1258
 Read Poultry Farm, Watervliet, N. Y.1247
 Red Feather Farm, Tiverton 4 Cor., R. I.1181
 Reed, Mrs. Hattie D., Marcellus, N. Y.1218
 Reliable Inc. & Brooder Co., Quincy, Ill.1180
 Reliance Incubator Co., Freeport, Ill.1248
 Remington, O. R., Washington, D. C.1216
 Riley, H. J., Bryan, Ohio.1235
 Rippley Mfg. Co., Grafton, Ill.1207
 Rockford Poul. Sup. Co., Rockford, Ill.1264
 Rock Ledge Farm, Southboro, Mass.1249
 Rockwood Farm, Norwalk, Ohio.1212
 Rogers, F. D., Elgin, Ill.1255
 Rogers, Mrs. H. C., Oshkosh, Wis.1252
 Rosemount Farms, Franklin, Pa.1274
 Rowe Sanitary Mfg. Co., Detroit, Mich.1234
 Rudy, Geo. H., Mattoon, Ill.1260

Sanborn, Dr. N. W., Holden, Mass.1243
 Sanford, Geo. F., Denton, Md.1210
 Sargent, Lester L., Washington, D. C.1238
 Savage, P. L., St. Charles, Ill.1265
 Schabell, John, Chicago, Ill.1248
 Schwalge-Smith Co., Elmhurst, Ill.1181
 Schwarz, A., Burlingame, Cal.1253
 Schultz, W. F., Cuyahoga Falls, Ohio.1249
 Sears, Howard O., Garden Prairie, Ill.1248
 Sefton Mfg. Co., Chicago, Ill.1239
 Seward, R. M., Lewistown, Ill.1205
 Sharp, Herb E., Spokane, Wash.1212
 Sheer Co., H. M., Quincy, Ill.1261
 Sheffield Farm, Glendale, Ohio.1202
 Sheppard, H. Cecil, Berea, Ohio.1179
 Shoemaker, C. C., Freeport, Ill.1273
 Shoenhard, G. H., Freeport, Ill.1212
 Simmonds, Chas. A., Camp Point, Ill.1221
 Simplex Supply House, Chicago, Ill.1216-22
 Sixt, H. C. & C. W., West Park, Ohio.1210
 Smith, Eugene C., Aurora, Ill.1199
 Smith, F. S., Hamilton, Ohio.1242
 Somers, J. O., Bedford, Ohio.1180
 Southern Poul. Supply Co., Mobile, Ala.1273
 Spahr, Albert G., Xenia, Ohio.1225
 Spencer, John G., Sharpsburg, Pa.1251
 Spiller, A. P., Beverly, Mass.1214
 Sprague, F. H., Maywood, Ill.1216
 Sprecher Bns., Rohrerstown, Pa.1234
 Starks, M. L., Starks, Wis.1265
 Stiles, Chas. L., Columbus, Ohio.1246-64
 Stiarwalt, John, Decatur, Ill.1183
 Stratton Mfg. Co., Erie, Pa.1219
 Struble, Z. D., Bascom, Ohio.1273
 Sturman, Grant, Mt. Carmel, Ill.1234
 Succulenta Co., Newark, N. J.1253
 Sunlight Poul. Farm, Lynchburg, Ohio.1238
 Sunnyside Poultry Farm, Bristol, Vt.1214
 Sunset Poultry Yds., Olneyville, R. I.1248
 Sunswick Poul. Farm, S. Plainfield, N. J.1244

Tarbox, A. & E., Yorkville, Ill.1248
 Taylor, Geo., Urbana, Ill.1267
 Taylor Instrument Co., Rochester, N. Y.1273
 Tenacre Poultry Farm, Princeton, N. J.1248
 The 173 Ranch, Kearney, Neb.1250
 Thompson, E. B., Amenia, N. Y. Back cover
 Tiffin Poul. & Hatchery Co., Tiffin, O.1210
 Tilden Poultry Yds., Delavan, Wis.1235
 Tompkins, Harold, Concord, Mass.1215
 Trethaway, Arthur, Wilkes-Barre, Pa.1265
 Truby, F. J., Lombard, Ill.1265
 United Brooder Co., Trenton, N. J.1273

Urban Farms, Buffalo, N. Y.1264
 Walker, G. A., Polo, Ill.1234
 Ward, Jr., John W., Pennington, N. J.1214
 Ward, R. W., Normal, Ill.1210
 Ward, W. H., Nickerson, Kansas.1218
 Warner, The Coopman, Allegan, Mich.1218
 Watson Mfg. Co., Lancaster, Pa.1225-58
 Waugh, M. H., Peoria, Ill.1264
 Wellcome, F. O., Yarmouth, Me.1242
 Weldell Incubator Co., Holly, Mich.1246
 Whatglen Farm, Lancaster, Pa.1182
 White City Egg Farm, Seville, Ohio.1264
 White Wyandotte Poultry Yds., Mass.1264
 Wiebke, W. H., Fort Wayne, Ind.1267
 Wilburtha Poultry Farms, New Jersey.1273
 Williams, A. C., Ravenna, Ohio.1252
 Willow Tree Poultry Farm, Mass.1214
 Wilson Bros., Easton, Pa.1246
 Witte Engine Works, Kansas City, Mo.1263
 Wolf, Mrs. John, Merrifield, N. Dak.1258
 Woods, H. M., Carlinville, Ill.1248
 Woodward, Ralph, Grafton, Mass.1248
 Woolery Farm, Bloomington, Ind.1193

Wyckoff & Son, C. H., Aurora, N. Y.1245
 Wyde, Wm. F., Lawrence, Mass.1258
 X-Ray Incubator Co., Des Moines, Iowa.1214
 Yesterlaid Egg Farms Co., Pacific, Mo.1233
 Young, D. W., Monroe, N. Y.1244
 Young Co., E. C., Randolph, Mass.1180
 Zenner Disinfectant Co., Detroit, Mich.1219
 20th Century Hatchery, New Wash., O.1264

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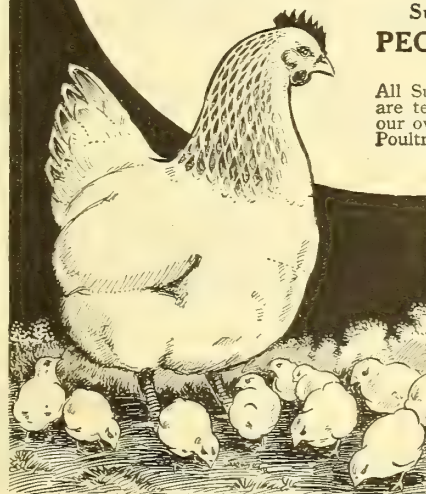
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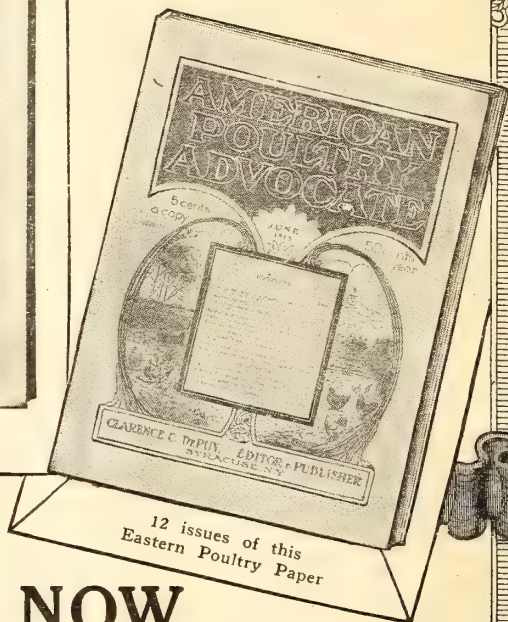
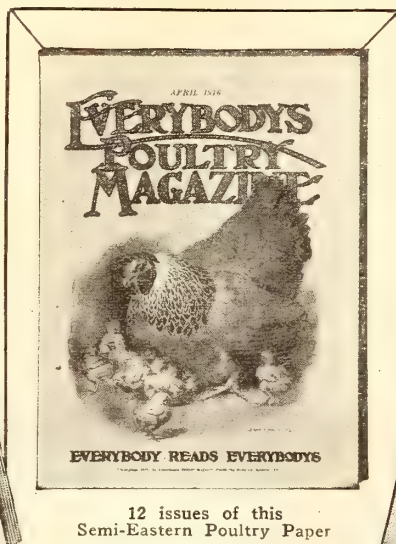
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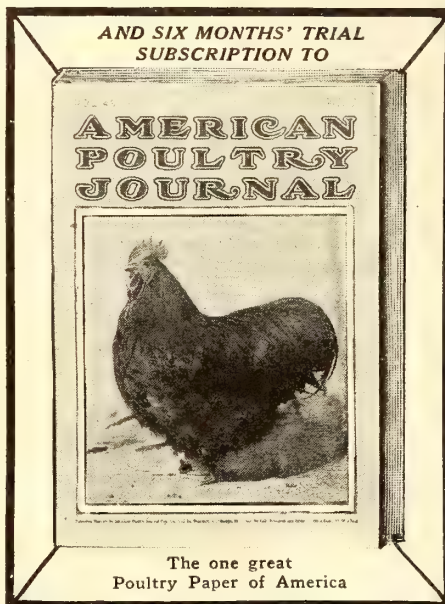
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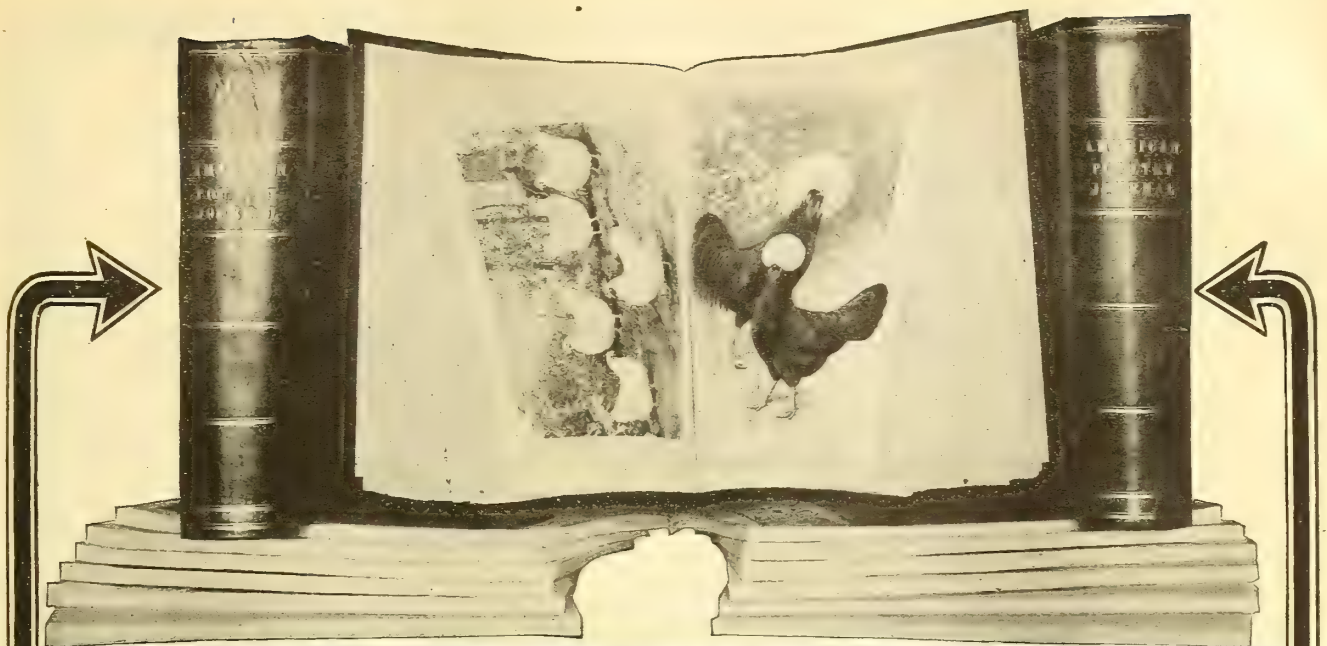
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1916 YOUNGSTERS

are the evenest lot in quality I ever saw. The small percentage of culls were killed off long ago. The remaining flocks have been a matter of wonderment and pleasure to the numerous visiting breeders who have seen them the past summer and fall. Mr. Davey and I have selected and shipped scores of birds for the early fall fairs and for early breeding and never in the history of Owen Farms has the extreme delight of customers with shipments made them been so freely expressed.

You will find here exactly the bird or birds you are needing, whether you wish them to win your show, to breed you winners, or strong, husky utility birds to lay and pay and breed your birds with these characteristics inherent.

You will not be disappointed in any purchase you make of me. Write fully and frankly just what you wish the birds for, and if you will give me all particulars it will greatly help me in writing you. My fine catalog, giving all details regarding my birds, my farms and my generous business methods will help you decide to buy here.

A typical Owen Farms winning was made at the New York State Fair in September when my White Rocks, White Leghorns, Buff and White Orpingtons won 12 out of a possible 20 firsts, 8 seconds, 9 thirds and 9 fourth and fifth prizes. A total of 38 regular awards. The most important of all firsts, first prize pen, was won in each variety. 28 Owen Farms birds won the blue. 8 birds of all other exhibitors combined won the blue.

My S. C. Rhode Island Reds and White Wyandottes

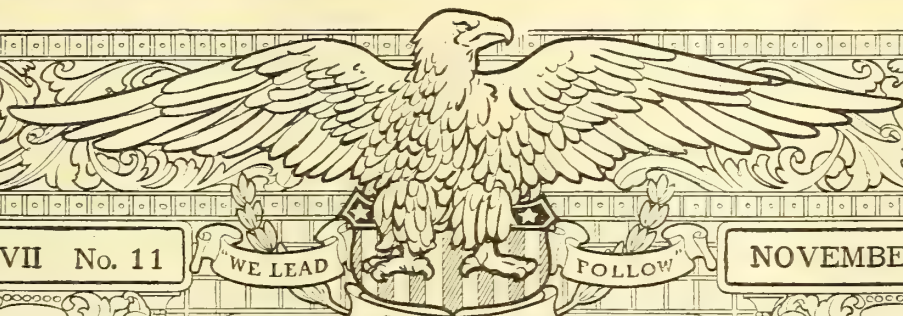
were not shown at Syracuse. Important sales in these varieties made me decide to give my customers the benefit of my best early birds. Later you will realize I am stronger than ever before.

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AMERICAN POULTRY JOURNAL



VOL. XLVII No. 11

NOVEMBER, 1916



U. R. FISHEL—PIONEER POULTRYMAN

U. R. FISHEL, of "Fishelton," Hope, Ind., is a White Plymouth Rock specialist on a large scale. "Fishelton" has 120 acres devoted to one variety and claims the title of "the largest specialty poultry farm in the world." He was born in Hope in 1866, and began breeding poultry when he was 13 years old. He made his start with a \$1 setting of fancy eggs.

"Fishelton" has laying house capacity for 3,000 hens. The open-front house is preferred. The incubator cellar on this plant has 14,000-egg capacity.

The farm sells about 15,000 White Rocks annually for breeding, exhibition and laying purposes. The farm and plant is valued at \$100,000. This was all developed from that boyhood initial investment of \$1, and Mr. Fishel says he has "made every dollar out of the poultry business."

He is one of the directors of the Citizens' National Bank, Hope, and of the Fuel Gas Co., member of the Advisory Board of the Indiana Experiment Station, and treasurer of the American Poultry Association. Mrs. Fishel takes an active interest in the work with poultry and is herself a fancier of ability.

Management of Pullets for Winter Eggs

There Are No Secrets Connected with Making Pullets Lay in Winter. A Bird to Lay Must Be Healthy, Well Matured, Well Fed and Cared For. Rations for Winter Eggs.

By Maurice H. Decker, La Porte, Indiana

GETTING winter eggs is the most important phase of the utility poultry business and the stumbling block that causes a large number of failures of those who lose out in making hens pay. The winter egg is the "Golden Egg" and a current quibble of a few years back ran to the effect that those who made money with poultry either got winter eggs or sold secrets and formulas for getting them to others. Extensive business has been done in the distribution of schemes for making hens lay in the winter months,



A well lighted, fresh air colony house that furnishes the conditions necessary for a profitable production of winter eggs. This house is 8x10 ft. in size and houses 20 White Leghorn pullets. See "Management of Pullets for winter eggs."

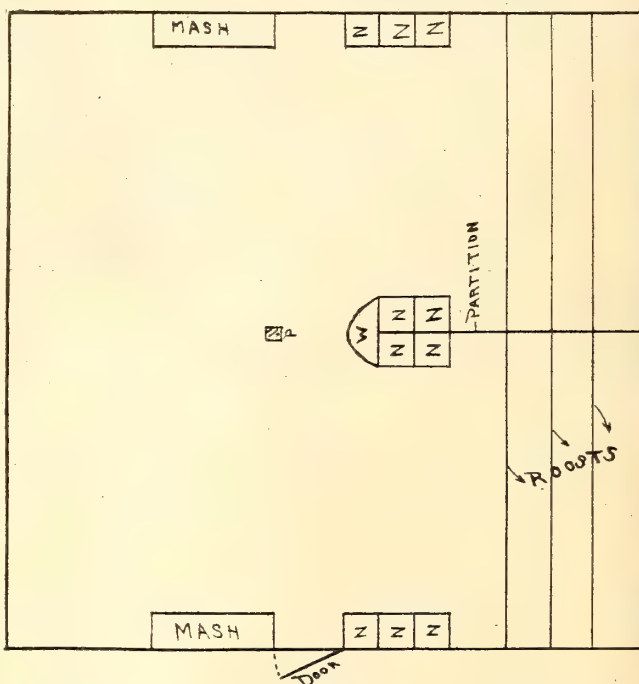
schemes that dealt with types of buildings, heaters for laying houses, patent foods, methods of sprouting oats, etc., schemes that amazingly dealt with every factor of winter egg production, but the most important one of all—the fowl itself.

There are no secrets or mysteries connected with making pullets lay in winter. Given good, healthy, well-bred pullets, housed and cared for in a proper and common sense manner, any careful poultryman will be able to succeed. The first step toward winter eggs lies in a wise and careful selection of the pullets to be housed and fed for the purpose. With high grain prices and moderate selling values of fresh eggs per dozen, it is decidedly a risky proposition to attempt to force for cold weather laying any but strictly first-class, full grown pullets of good breeding. To make profitable winter layers, heavy fowls of the Brahma type should be hatched preferably in the month of February, Rocks and Reds in March and the first week in April, and Leghorns and their kin in April and May. Range raised stock is to be preferred, but this is not imperative if the pullets are in good flesh, of healthy alert appearance, bright of eye and plumage and of active hustling habits. Before the flocks are settled in their winter quarters, all listless, thin necked, crooked boned, over-fat individuals should be carefully removed, for it requires but a small per cent of such fowls in a laying, paying flock to turn it into a source of loss. If the pullets have been bred with a view to heavy winter laying, then the chances for success are greatly enhanced. If not, it is too late this season to remedy the matter, but careful attention should be given next spring to the introduction of heavy laying blood if your present strain does not turn out satisfactory results.

The laying house must be clean, bright and roomy, so built that it will provide ample protection for its inmates from storms and drafts, and still supply an abundance of fresh air and sunlight. What it is made of, or how made, matters little

so long as these points are taken care of. The easy answer to such requirements is, of course, the fresh air, open-front house, which exists in sufficient sizes and types to meet the requirements of every poultryman. Old buildings should be carefully gone over and all cracks and openings in the back sides and roof closed wind tight. Even very old out-of-date laying houses can be made comfortable and cheerful by putting in screened openings in the front and extra sash in the sides near the front. The walls can be made tight with tar paper at little expense and a fresh air building evolved that will encourage fowls to do the best that is in them. A few other essentials are that the floor be of some material that is not dusty, the interior fixtures simple yet adequate and of a design that will encourage regular cleaning. To provide the necessary exercise for the fowls, the floor should be covered at all times with clean dry litter. Straw, either wheat, rye or oat, corn fodder or if nothing better is available shavings will do and must be removed and changed as soon as badly soiled or damp.

Feeding for winter eggs is a simple problem if sufficient quantity and variety of wholesome foods are placed before the fowls. Most flocks are given the right proportions of grains, but fail in a profitable egg production because the essential green and mineral elements are lacking. In the line of greens we prefer alfalfa to all the rest. I believe plenty of steamed alfalfa supplemented by a few vegetables, such as potatoes, turnips and cabbage will give better and more results in health and eggs than a straight ration of any other form of green food. The alfalfa is rich in lime in the easiest assimilated form which eliminates much loss from thin shelled and broken eggs and we seldom experience sickness in our



Convenient arrangement of laying house fixtures. This shows the floor space of a 20x20 ft. house divided in the center by a partition extending 9 ft. from the rear. Nests are marked N and are one, two, or three tiers, depending upon the size of flock and breed of fowls. W is a shelf two feet from floor secured to end of partition upon which is placed the water pan. Upon either side of the house are mash hoppers 4 ft. long. If in a long house, these could be placed in the partitions, half on either side. This plan presents an unusually clear floor space, one that encourages sanitary conditions. This plan is for roosts with no dropping boards. If boards are used the nests could be built in 6 to 10 ft. sections with 1/4-inch wire bottoms and hung under them along their front edge by wire hooks and eyes. See "Management of Pullets for Winter Eggs."

flocks of layers as long as they consume their daily ten quart pail of steamed alfalfa (this to 150 hens). Sprouted oats are excellent, but require considerable more work and do not, in my opinion, give results that warrant the extra labor.



Imperial "Ringlet" first prize pullet and champion female at Madison Square Garden, New York, February, 1915. Owned, bred and exhibited by E. B. Thompson, Amenia, N. Y. This pullet is the mother of the wonderful pullet exhibited by Mr. Thompson, winning first prize and championship at Madison Square Garden, January, 1916.

We have always held the opinion that heavy layers will not consume enough oyster shell or limestone grit to supply themselves with sufficient egg shell material and in addition to the extra calcium furnished by the alfalfa, regularly place a few pounds of shells ground up to the fineness of flour with every hundred weight of mash. All of our mash hoppers have three to four compartment and besides mash there is always beef scrap and cracked bone before the fowls.

Following I give a number of rations for winter eggs that are used and recommended by some of our Experimental Stations. In adopting any of these rations is is well to remember the following points. Scratch food fed in the morning should be given as soon as the hens leave the perches, the sooner the better, and in the evening a couple of hours before they retire to the roosts. Dry mash in hoppers is usually left accessible to light, active breeds the day thru, but for heavy fowls the hoppers are usually closed until noon. Fresh water, oyster shell grit and charcoal are always before the hens.

NEW JERSEY RATION:

Morning scratch food: Five pounds to 100 birds.	Dry mash:
100 lbs. Wheat	200 lbs. Bran
100 lbs. Oats	100 lbs. Corn meal
Afternoon scratch food: Ten pounds to 100 birds.	200 lbs. Middlings
100 lbs. Cracked corn	100 lbs. Gluten meal
100 lbs. Wheat	100 lbs. Ground oats
100 lbs. Buckwheat	100 lbs. Alfalfa
100 lbs. Oats	200 lbs. Meat scraps
	During molting season, oil meal instead of gluten. In spring alfalfa omitted and meat scrap reduced.

INDIANA RATION:

Scratch food morning and evening:	Dry mash:
100 lbs. Corn	100 lbs. Middlings
100 lbs. Wheat	100 lbs. Bran
50 lbs. Oats	60 lbs. Meat scraps.
	Milk fed regularly.

THE CORNELL RATION:

Scratch food morning and evening:	Dry mash:
60 lbs. Wheat	60 lbs. Corn meal
60 lbs. Corn	60 lbs. Middlings
30 lbs. Oats	30 lbs. Bran
30 lbs. Buckwheat	10 lbs. Alfalfa
	10 lbs. Oil meal
	50 lbs. Beef scrap
	1 lb. Salt

CONNECTICUT RATION:

Scratch food, given only in afternoon in warm weather:	Dry mash:
60 lbs. Cracked corn	200 lbs. Bran
60 lbs. Wheat	100 lbs. Ground oats
40 lbs. Heavy oats	100 lbs. Corn meal
20 lbs. Barley	100 lbs. Gluten meal
10 lbs. Kafir	75 lbs. Middlings
10 lbs. Buckwheat	30 lbs. Fish scrap
10 lbs. Beef scrap	30 lbs. Beef scrap
	25 lbs. Low grade flour

THE MAINE RATION:

Scratch feed:	Dry mash:
Early morning, cracked corn.	200 lbs. Bran
Ten to eleven o'clock, equal parts wheat and oats.	100 lbs. Gluten
About two quarts to fifty birds each feeding.	100 lbs. Corn meal
	100 lbs. Low grade hour
	100 lbs. Beef scrap
	50 lbs. Linseed meal

Green food for all rations is cabbage, beets, sprouted oats, alfalfa or clover—any or all of these as much as the hens will eat.

Regular care in the matter of feeding is of equal importance to the variety and quantity given. The hens should not be kept guessing just when their next meal is coming and they should not be left hungry to stand around idle until you arrive with the feed pail. If there is any question of your not having the time or opportunity to serve their meals regularly and on time, a few automatic feeders will prove a valuable aid in preserving a steady egg yield. Warm water is of as much importance as nourishing foods and should always be available to the laying flock during freezing weather.

Close watch must be kept upon sanitation and symptoms of disease. Lice and mites must be kept down to a negligible degree and close watch for colds and roup be maintained. We use an early fall spray with kerosene and carbolic acid for mites, a good dust bath of coal ashes and loam for lice and dip the heads of all fowls afflicted with colds in a weak solution of some creso dip promptly and regularly until cured. Wholesome sound food and dry clean litter with plenty of house ventilation in the right direction will do wonders in maintaining a laying flock in perfect health thru the winter.



First pen cockerel, Greater Chicago Show, 1914, and first pen cock, Greater Chicago Show, 1915, bred and owned by Eugene Smith, 317 Galena Boulevard, Aurora, Illinois.

SEX CONTROL in POULTRY BREEDING

CHAPTER VI—A Discussion of the Subject by Other Breeders, and Comment by the Author.

By Herb E. Sharp

(Copyright, 1916, by Prince T. Woods and Herb E. Sharp)

IT HAS indeed been gratifying to receive the commendation, and also the condemnation of persons so widely known as many of the breeders who have expressed an opinion of the work so far published, and while it is not deemed necessary to present the words of praise, it is advisable, for a complete comprehension of the subject to present the adverse opinions and suggestions that have come to hand.

When men of the standing in the live stock world that the Hon. W. D. Hoard, Ex-Governor of Wisconsin, enjoys, life time breeder of dairy cows, who has done more than any other living man to advance the interests of the man with a scrub herd, and whose integrity cannot be questioned, or his motives impugned; and David Munroe, whose life has been given to his chosen breed: see fit to criticise any author for his writing, it is well for that author to give careful attention to the opinions they present, and as for ourselves, if we are in error, in many matter which has been presented to the public, we shall appreciate having an opportunity to correct that error.

It is with the most sincere respect for the opinions of older men, and men of wide experience that we present these statements, and shall attempt to point out as briefly as may be the errors as we see them; however, should these great breeders be shown to be in the right, we shall be under great obligations to them, and if they are in the wrong, then we hope to be able to correct their errors and thank them for the interest they have shown in the matter.

Ex-Governor Hoard writes: "We may select the son of a cow that has given mostly heifer calves, but then his sire may have come from a cow that gave mostly bulls, so there you are. Again, if your calves are all heifers, where are you going to get sires to improve your herd with?"



FIRST AND SPECIAL PRIZE COLUMBIAN
WYANDOTTE COCKEREL NEW YORK STATE
FAIR, SEPTEMBER 1916 BRED & OWNED BY
WILBURTHA POULTRY FARM TRENTON Jct. N.J.

With equal propriety we might assert that the dam of any certain bull may have been a great milker, but his sire may have come from a beef animal, it is solely for the purpose of keeping family records correctly that breed clubs have been established, and the breeder who selects for use in his dairy herd an animal that traces to two or three types of breeds, or families in the breed, is using very poor judgment, for such an animal may transmit almost any character, but least of all the one that is most to be desired.

Again if we can establish a family that will regularly give us about 90% females, we will have ten bulls for every one hundred cows, which is about nine more than is required, and in poultry yards one male is ordinarily sufficient for ten females, and ten birds in the breeding pens will easily be able to maintain a flock of one hundred layers in the laying pens, so that a family of fowls producing even as high as 99% females would still be abundantly supplied with males.

But let us suppose a case, that is all but impossible to reach, if the flock, or herd, should reach a point where absolutely no males should be produced, we then would have inherited characters so strongly fixed, that the introduction of a foreign male could not work any great damage to the quality of the flock as a whole, and it would only be necessary to purchase one male, then breed back to our strong females, to re-establish the quality of inherited characters desired.

On the other hand, one is struck with the importance of the entire question when we consider that it is *absolutely impossible to increase or improve the flock, or herd, when the progeny are all males*. One is forced to ask these older breeders just what value could be given to the greatest sire in the world, if all his progeny were to be males, could he increase production of milk, butter, or eggs, and if so, how?

In the second chapter, reference was made to the hen whose chicks were all males, and how quickly she was disposed of, together with all her progeny. Another instance was recently published in the *Pacific Poultryman*, by an independent investigator finding just such a hen some years before we began the series of experiments which resulted in making this discovery.

The Claim Agent of a Western Railroad related an incident of the killing of an entire herd of six cows, in a snow bank, by a train on his road. Claim Agent went to the place to secure an adjustment: the cows were all the milk stock the farmer owned, they had been purchased seven years before to start a dairy herd, had always been bred to expensive sires, and had dropped something near 40 calves, but *every calf had been a bull*, those expensive sires had never increased the production, and had not even been able to reproduce the herd, and so the settlement was arranged easily, on the *beef value of those animals*. That farmer retired from the dairy field.

Two brothers purchased two registered Shorthorn heifers, one of them dropped all heifers, and her daughters did likewise, her owner has now been breeding Shorthorn cows for 30 years, while his brother's heifer never dropped a heifer calf, and he retired from the live stock world.

How long would any breeder remain in the poultry business if his chicks were all cockerels? Will Mr. David Munroe kindly reply?

Having declared that the calves from certain bulls were just now showing 90% females, tho their dams produced mostly bull calves, and being pressed for a forecast as to the work the daughters of those bulls would do, he said: "What we want is for you to take this cow, bred as she is, with her disposition to produce mostly males, and change her over so that in future, you make her produce heifer calves."

No doubt many farmers who are keeping mongrel stock, not only dairy stock, but in all other lines as well, would be pleased to have some mighty man come along the road and by a simple wave of his arm change over all his feed wasters

into profit makers, and if such a thing were asked of our redoubtable critic, his first suggestion would be to secure a Holstein bull for the dairy herd and a sire of equal quality in the other lines, and the advice would, doubtless, be very effective, if given time to do the work, but it would not "change over any individual bred as she is," it would simply create a new group of individuals. Even if the slight-of-hand methods were possible they would simply serve to destroy all pure-blood values.

Let us take this cow "bred as she is" a Holstein and with her black and white hide, no one wants her color changed, no one wants that hide taken off and a new one grown on, then why should any breeder want her ovaries removed and a new set grown in? Yet if we breed this cow to a Shorthorn bull he will take her hide off and grow a new hide on her daughter, and so if the other organs are not just as we desire them, we have only to choose carefully the kind of a sire we use, to secure the kind of organs we desire, whether the organs in question be the ovaries, the digestive system, or the circulatory system, or mammary organs.

In presenting the account of the "Bessie" family, the very best inducement has been given to those breeders who deny the inheritance of the sex producing trait, to present any evidence that may exist in denial of the theory proposed, for the simple reason that if this theory is correct then members of that family, whether of either sex, are positively valueless in the breeding yards, a "Bessie" bull might easily double the average milk and butter production of a herd of fairly good cows, but if he did, his daughters would drop few, if any female calves and so force the owner out of the business.

Further, owners of this stock cannot say that they chose to remain silent rather than to enter a public discussion, that might be detrimental to their interests, or that they are not financially and mentally equal to holding up their side of the question. "Bessies" have been sold for the highest prices, sold and purchased by men whose mental and financial ability have placed them at the very top of the list of able breeders, and further, by naming these men individually the matter has been placed where they cannot dodge the issue, if this theory is not correct they may save themselves yet by disproving it. The investigation has been carried on earnestly, honestly and fairly, if any evidence has been overlooked, surely these breeders, who are among the most prominent in America, will come forward with that evidence.

The founders of the Hereford breed of cattle had no great difficulty in changing the hide of the Shorthorn; founders of the Dutch Belted cattle succeeded in changing the hide of the Holstein; founders of all the dairy breeds have made great changes in the digestive and mammary systems of their stock, and these changes have all been regularly inherited for generations; yet it is true that these changes have become fixed and inherited, or transmitted because of certain changes that have occurred in the ovaries of the females, and these have influenced the sons, so that the same changes have appeared in their daughters, and again have been transmitted to the next generation. Now for any breeder of live stock to assert that the action of the ovaries is not subject to the laws of heredity, is for him to almost raise a question as to his own intelligence.

The Editor of the AMERICAN POULTRY JOURNAL has sent me the following letter, and while the author is probably a trifle less renowned than those we have just considered, yet his opinions are just as much to be respected, and his deductions are just as important, if correct, as tho he were the most famous of them all.

"Dear Sir: As you are giving considerable space to the articles on 'Sex Control in Poultry Breeding,' possibly you will



permit me to interpolate a few remarks and ask one or two pertinent questions.

As I understand it the idea is to select a hen whose offspring proves to be mostly females, and, by line-breeding, to intensify and fix this characteristic in the resultant family or strain.

If this characteristic is transmittable, as Mr. Sharp claims it to be, it is going down the road to oblivion for any flock bred along these lines, regardless of whether the strain in the past has been bred for feathers, eggs, or both.

Practically all breeders agree: 1st, That all improvements thru breeding must come thru selection; 2nd, The male is half the pen the first generation, and proportionally more the following generations if line-breeding is followed; 3rd, We must have quantity in order to do any real selecting for quality.

If a breeder limits the number of males produced, where is he going to get the quantity which is absolutely necessary if we are going to select quality? (Continued on Page 1228)

How to Secure Exhibition Quality

Fitting Barred Plymouth Rock Females for the Show, Including Care and Management from Shell to Show Room. *By C. H. Latham, Lancaster, Mass.*

THE question is asked many times: "When do you begin to fit your birds for the show room?" and it could very truthfully be answered, "One should begin several years before the show occurs," for a fine exhibition bird must be bred, and very carefully raised, they do not just happen like some freak of nature, but are the results of careful study and painstaking work of the breeder.

In fact, one should begin as long a time before the show as possible. We will take it for granted that the breeding stock has been carefully selected and mated, and is in the best of health and condition to give their very best to their offspring. Then the fitting goes right on from the day the egg is laid that is to produce a prize winning bird. The egg should be hatched under the best conditions to give a strong hearty chicken, and from the day the chick is hatched till fully matured it should have the best possible chance for growth and development, for very much depends on this; the best bird that ever was hatched could very easily be spoiled during this period. One thing the breeder should keep in mind, a high-bred bird will not grow and thrive under some conditions that a cross-bred or ordinary bird will thrive under. This old idea that a bird having free range where it can pick up many insects, bugs and grasshoppers, in fact work hard to get its own living, and make a fine bird, is rank nonsense. They won't do it, they will grow and make some sort of bird, but they won't make winning show birds.

Give the chicks a good roomy coop, *never crowd them at any time*, the fewer birds there are to a brood, or in a colony coop later, the better growth and development will follow. Feed liberally from the very first feed, giving them all they

will eat, and giving them a variety of food that will promote quick growth, use judgment in doing this, they should have this food fed in such a way that they can assimilate it quickly. The writer, a year ago, saw a flock of Barred Plymouth Rocks that had ideal surroundings and very best of care, but failed to make proper growth because of the method of feeding. They had, possibly, the right kinds of grains, but they were fed in a dry mash of ground grains, and it took all the time and strength of the birds in working down the dry feed and then going to the drinking vessel to drink. Not a bird was making its best development and all lacked development.

After the chicks are a month old they should be fed one or more feeds a day on a cooked mash that can be quickly assimilated and then at night fed on hard grain, after they are of size to take it readily. This night feeding should be of whole corn, or whole corn and wheat. Some suitable shade should be provided, and nothing is better than low bushes or shrubbery, weeds, or a good corn field. The shade is absolutely required for the hot weather. The feeding trough and water vessel should be placed very close to the shade, and better still, placed in the shade. In hot days a chicken cannot live long in the direct rays of hot sunshine, nor will they go into it to any extent for food or water. If the food and water is at a distance from the shade, the chicks will skip the noon meal rather than go into the hot sunshine to get it.

No one can properly feed birds by measure, some days they seem to require more food and will eat more than in other days, and as they grow the quantity of food must be steadily increased. At all times the growing chickens should be in a condition of flesh that if killed they would be in fine condition

TRAP-NESTED 200 EGG STRAIN

TRAP NESTED

JOHN G. POORMAN
TINLEY PARK, ILL.

BRED TO LAY

WHITE ORPINGTON

WHITE ORPINGTON

SON OF LADY GRACE 232 EGGS

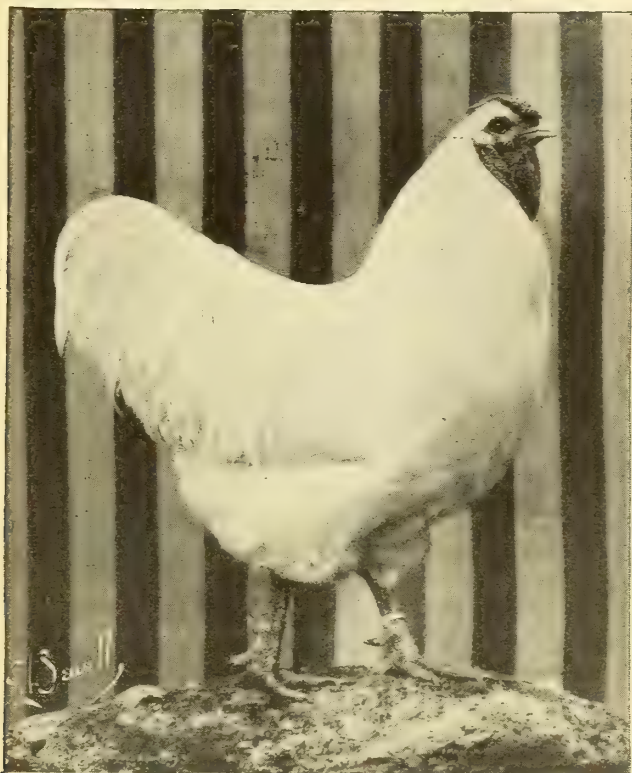
LADY EMMA RECORD 319 EGGS

THE WORLD'S BEST LAYERS

A pair of Poorman's bred-to-lay White Orpingtons. Bred and owned by John G. Poorman, Box 100, Tinley Park, Ill.

for the table. Growing a large lanky frame first, all joints and angles, and then trying to put the flesh on to give proper shape is a very poor way to grow a good shaped show bird.

If a section of the poultry house is available for use during



FIRST PRIZE WHITE WYANDOTTE COCK
INDIANA STATE FAIR, INDIANAPOLIS, SEPT. 4-8
SOUTH BEND INTER-STATE FAIR, SEPT. 12-16, 1916
BRED & OWNED BY J. C. FISHEL & SON, HOPE, IND.

the late summer months, one having a good grass run connected to it, a selection of the most promising pullets should be taken in from the range and given these quarters.

Now the real finishing off work begins. The good, liberal feeding should go steadily on, the quarters should be clean and a litter of straw, or some other material, for feeding small grains provided so the birds can get needed exercise. The mash feeding and whole corn at night should be continued, keeping them steadily growing. Later when the grass is getting old, cabbages should be hung up in the quarters so they can pick at this much relished green food. It helps to fill them out by giving bulk to their food, and gives better width to backs and breasts. Be among the birds several times a day, and get them accustomed to having a human about, soon they will become very tame and eat out of the hand if desired to do so.

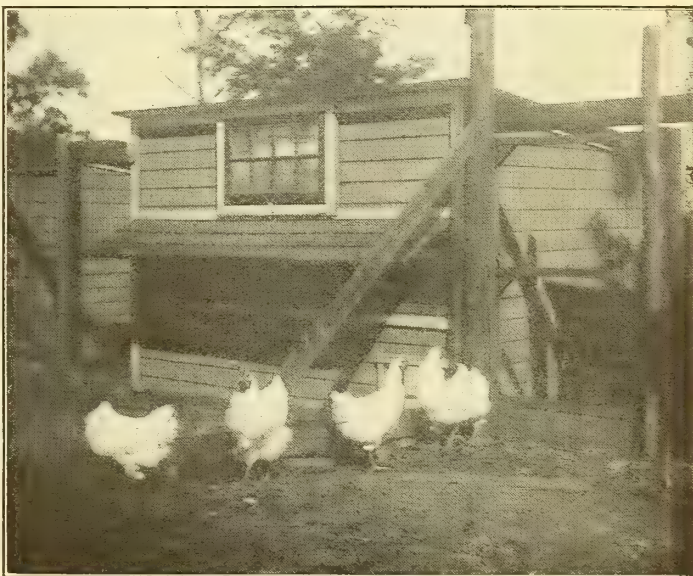
One object now is to get them in as perfect feather as possible. Some pullets show well with the smaller chick feathers, but most of them, if rightly cared for, will drop these feathers and put on what might be rightly called adult pullet feathers, which, tho are somewhat different in character to the real adult feathers that they acquire when they moult into yearling hens. In many specimens the feathers in the back and portions of the wing bows will not end in a dark tip, but usually these feathers come just right when they become hens. Do not, as a rule, pluck out the chick feathers, let them moult in naturally as possible. Sometimes they drop them very slowly, and, especially in tails and wings, grow them in unevenly. If this seems likely, when the chick feathers are ripe and pull easily, it is well to pluck them so they all come in even, especially is this desirable in the tails. A pullet shows best just before the feathers are fully ripe, when they still have a little growth to make, they lay smooth and more even on the bird

than they do at a later period. A pullet to show at her best must be rounded out and in pink of flesh and condition. She is usually at her best when about ready to drop her first egg. From that time on she will be steadily going off from best show condition, from what is termed getting over-ripe. A few days before the show, the pullets should be looked over very carefully; they will all have more or less off-colored feathers, such as irregular barring, either heavy tipped feathers or white or dull colored tipped feathers scattered about, that should be plucked; also they will have some black feathers, and partly solid black ones that should be plucked out. If one has scruples against this dressing up or plucking, they had better drop the whole business, for any Barred Rock that goes into the show room in proper show condition needs this work done. In thirty years experience in breeding exhibition Barred Plymouth Rocks the writer has never seen or handled an exhibition specimen that did not need this plucking. Some people set up a big hue and cry against such work, and call it faking. But one thing is very sure, a poor specimen cannot be made into a good show bird by plucking, for there would be nothing left to show. It takes a really fine specimen to be fitted for showing. We show birds to bring out the best that is in them, and, if these qualities are not there, any amount of plucking will not make them good show birds.

Fitting the hens is done in much the same way as with the pullets, except that when they are well into their moult, we must look carefully that they drop all their old feathers, and often we have to pluck a large number of old feathers. Some hens hold their wing feathers, and these should gradually be removed, all being done a month or six weeks before the show, so that they may have grown in new feathers in time.

Remove all old scales from the shanks and feet of the hens. They naturally shed these each year, tho I have noticed that many breeders do not seem to be aware of this.

Keep the birds at all times as clean as possible. Washing Barred Plymouth Rocks is not needed, it would mean a lot of careful work, which can all easily be avoided. It is the outside or surface color that will show dirt, if anywhere. A few hours before shipping the birds to the show, take them into an open shed or into the open air, and very carefully sponge off the surface of the plumage with a sponge moistened with benzine (do not use gasoline). This will remove, very quickly, all dirt that is in the surface color, and great care must be exercised that too much benzine is used so as to wet down to the skin of the bird. Keep them moving about for a few minutes, so they do not get into some corner and breathe too much of the fumes of the benzine. It will dry out very quickly, leaving the feathers bright and clean and in perfect show condition. As soon as the benzine is fully dried out, coop the birds in clean coops and ship to the show room.



White Wyandotte cockerels on the Rosemount Farm, Franklin, Pa.

Weight, Not Numbers, Egg Value Standard

Why All International Egg Laying Contests Should Award the Prizes to the Hens Laying the Most Pounds of Eggs Instead of the Largest Number of Eggs. This Article Was Awarded the Prize in the M. C. Wilson Contest. *By T. Harris Boughton*

THE most important reason why the number of pounds of eggs laid by a hen should be made the criterion in International Egg Laying Contests instead of the number of eggs laid is that the only real test of a hen's value as an egg machine is the *amount of food* actually produced, and not the number of little packages in which this food is contained. To consider anything but the actual *amount* is to distract attention from the most important phase of the utility breeding of hens, and to place too much importance on unimportant considerations. The system advocated would place a premium on the big egg, instead of the small egg as at present.

Of course it is true that eggs still sell by the dozen, and an egg that can just crawl under the wire at 24 ounces to the dozen may bring just as good a prize as a big generous egg. But this condition is wrong, and cannot continue indefinitely, because it is wrong. Because of the difficulty of dividing five eggs among six people, eggs will still continue to be sold by the dozen, and not by the pound, in most markets. But the



Helen T. Woods, associate editor of American Poultry Journal, with a lap full of newly hatched Black Langshan chicks. The Anchorage Farm, Silver Lake, Mass. June, 1916.

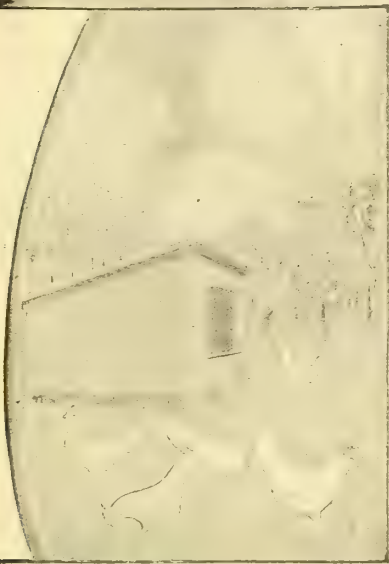
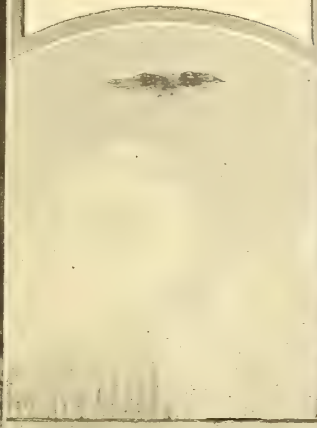
change that is coming, and that must come, is that eggs will be strictly standardized and graded according to size, and the price of a dozen eggs will be determined by the weight of the eggs. It is certainly fair and just that when eggs weighing 24 ounces to the dozen sell for 24 cents, eggs weighing 32 ounces to the dozen should bring 32 cents. In fact the larger eggs are worth slightly more, because the shells will make a slightly smaller percentage of the total weight.

Can you think of any other commodity besides eggs, that is sold by the dozen, in which the price of a dozen is not determined by the size? When you buy a dozen grape-fruit, or sweet-corn, or spring chickens, or cantaloupes, or fence-posts, or feather pillows, or fruit trees, the price depends absolutely upon size, quality being equal, and a dozen big ones cost considerably more than a dozen small ones. This is as it should be, and undoubtedly the same condition of affairs should, and sooner or later will exist in poultrydom. This condition would mean larger profits for the poultryman, and so attention should be attracted to and credit given for the hen that can produce the larger size as well as the larger number of eggs.

This change in methods of merchandising must of course

be brought about by the producer, and not by the consumer. Do you know why it is that the poultry business, altho it is one of the largest in this country, both in capital invested, and in business transacted, yet lags behind every other big industry in the matter of intelligent standardizing of its products? It is because it has never been a field of exploitation for "big business." There are no \$100,000,000 corporations for producing eggs, and there are good reasons why there never will be. Also there are no associations of poultrymen (as there are of fruit growers, for instance) who make a united and determined effort to enlarge the market for their produce, to seek out the best markets, sending a carload now here, and now there, as conditions warrant, and who conduct a definite and far-reaching campaign to educate the public to appreciate, and to be willing to pay for a superior article. Of course there are individual poultrymen who have realized their own opportunities to the full, and who have been able to get a superior price for a superior article, but they are the exception and not the rule, and there is a very good reason for that. You have only to visit a few poultry farms and talk with the owners, or even read the articles that practical poultrymen write about their methods and their aims, to see that the vast majority of poultrymen are in the business because they love it, and not primarily for the money there is in it. This attitude of mind is necessary, too, for unless a man loves his birds, and enjoys spending his time to make them more comfortable and contented, they will not do their best for him. If he regards them merely as so many machines for grinding out dollars, the hens seem to get news of it in some way, and they won't grind nearly so hard for him as they would for someone who took a more personal interest in them. The result of this condition is that most poultrymen are more interested in producing good birds and good egg records than they are in marketing their produce, and while the chickens are kept hustling every minute of the day, the cash register is allowed to strike its own gait, and to be as lazy as it likes.

You may wonder what all this has to do with the subject of figuring in pounds instead of in dozens in establishing egg records. It has just this to do with it: The only possible excuse for figuring a hen's performance in number of eggs, rather than in pounds, is that it is more convenient, and that the market calls for eggs by the dozen, and considers one fresh egg as good as another, regardless of size. But I have shown that this condition of affairs is unjust both to the producer and to the consumer, and should be remedied. Eggs should be graded according to size, just as nearly every other commodity is graded. The public must be educated up to the new standard, but before that can occur, the poultryman himself must be educated up to it, and there is no better way to do this than by using the weight standard in laying contests, thus drawing attention to the real value of the hen that lays big eggs, instead of giving the prize, as at present to the hen that lays small eggs, and a few more of them. One reason why big capital has never been attracted to the egg industry is that as the market now stands there is not sufficient profit in the business to draw capital away from other industries. The blame for the comparatively small profits rests upon the poultrymen themselves, who, because of their interest in the producing end of their business, have neglected the selling end. This can be corrected only when poultrymen make use of the methods that "big business" would use—that is, a definite, persistent, concerted publicity campaign to educate the public to the value of a superior product, and to collect a superior price therefor. Let us boost the big egg, and the hen that lays it.



S.C. WHITE LEGHORNS
BLUE RIBBON
WINNERS
AT THE
ILLINOIS STATE FAIR
SPRINGFIELD ILL. 1916
BRED AND OWNED BY
MEADOWLARK FARM
ELGIN ILL.



Meadow Lark Farm, J. W. Taft, Prop., Elgin, Ill., exhibited a fine string of S. C. White Leghorns at the Illinois State Fair this year. Their birds carried off five firsts, three seconds, two fourths and one fifth. There is no retouching on any of the photographs and no alteration in the shape of the bodies, with the exception of the sickle feathers on the two upper males, which were ragged.—L. A. S.

"WE LEAD, OTHERS FOLLOW"

EDITORIAL

American Poultry Journal

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**65,000 American Poultry Journals for
November, 1916.**

State of Illinois, County of Cook, ss.:

G. M. Atwell, president of the Atwell
Printing House, Chicago, being duly sworn,
certifies that the American Poultry Journal
has contracted for printing and binding
65,000 copies of the November, 1916, issue.

G. M. ATWELL.

Subscribed and sworn to before me this
18th day of October, 1916.

(SEAL)

ALICE A. SHEHAN
Notary Public.



OUR EDITORIAL in September issue on
American Poultry Association Reor-
ganization" started quite a little com-
ment pro and con—some of the "con"
views are interesting.

It is evident that some readers did
not understand the suggestion made,
or did not read the editorial carefully.

As matters stand at present, any-
one can buy a life membership in the American
Poultry Association for \$10 and the American Poul-
try Association does not get all of the ten dollars;
part of it goes to the state or provincial branch and
part to the organizer who secures the member. The
association now advertises that it "Endorses all
persons whose names appear on its membership
roll as to their integrity and good intentions as
poultry breeders, dealers in poultry equipment and
as publishers."

Obviously, with the present method of securing
members, and with a \$10 life membership fee, that
cannot be done and that advertised endorsement
ought to be withdrawn.

It is pretty generally admitted that the \$10 life
membership brings a good deal of "dead wood" in-
to the association. For one reason or an-
other new members buy a life member-
ship in the association for \$10 and then
show no further activity or interest. That
is not good for any organization.

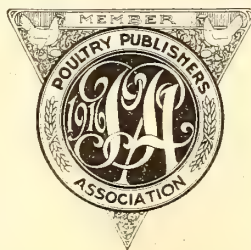
We suggested that it would be a good
plan to increase the life membership fee
to \$50, with an alternative of paying
annual dues of \$5.

One critic says that a \$50 life member-

ship fee would be absolutely prohibitive for poultry-
men, but that it might be for the good of the asso-
ciation to have an initiation fee of \$5 and annual
dues of \$5. Another editor, who, so far as we know,
keeps no poultry but does operate a city garage
and automobile repair shop, says we must think
that the American Poultry Association is a "mil-
lionaires' club." Probably he knows all about them,
but we have to confess that, being a poultryman
with just a modest income, we know nothing about
"millionaires' clubs" except what we read in the
current news of the day, and we are not interested
in the sort of "chickens" that such clubs are reputed
to encourage. From what we have read, certainly
no such club would consider a life membership fee
of \$50.

We cannot see that a life membership fee of \$50
would be prohibitive. Men with long experience
in organization work tell us that the lowest life
membership fee on which any international organ-
ization can hope to live, thrive and do business, is
a fee of \$50. We believe that they know what they
are talking about. Several organizations of poul-
trymen have come into existence recently and al-
ready have good membership lists, and these are
charging an initiation fee of \$5 and annual
dues of \$5. If the rate is increased and
one does not care to buy a life member-
ship at \$50 he can pay instead dues of
\$5 per year. Most of us who expect to
live ten years or more and take an active
interest in poultry affairs, would consider
it economy to buy the life membership.

Persons opposed to the increase, or
without sufficient loyalty to the organiza-



tion or interest in it to meet such increase, would probably have to be carried on their original payment, but we believe that such members would be few indeed. Certainly a big international live stock organization like the American Poultry Association should have membership fees that are sufficient to sustain it without recourse to other methods of raising money. By properly organizing county, state and provincial branches having much lower annual dues, it should be easy to provide the membership of such branches with representation in the international body, and such a plan could be made to meet all requirements of those poultrymen who for any reason could not directly join an international association having \$5 annual dues or a \$50 life membership fee. All poultry associations or societies could be provided for by representation in the parent or international body and the plan could be worked out to give a more active, influential and desirable international organization. It is worth careful consideration and, for the good of the industry, it is just as well not to condemn the plan hastily or to jump at unfavorable conclusions.

We are not urging the plan or endeavoring to promote any selfish interests. We are simply reporting the trend of a very strong sentiment for progressive reorganization as expressed by a good many prominent members of the American Poultry Association. Something ought to be done for the best interests of the American Poultry Association. If anyone has a better plan than the one suggested in our September editorial, let him come forward and present it. There is abundant material to make the American Poultry Association what it should be, one of the strongest, best, biggest and most influential live stock organizations of international scope. It needs closer and more practical organization. It needs to secure its revenue from sustaining membership fees paid by active and interested members. What is the best way to bring about real progressive reorganization? Think it over.



THE WIDELY ADVERTISED "high cost of living" is still with us. Keen observers of world conditions tell us that it is here to stay for some time. With the awful destruction and waste caused by the European war we are all of us concerned, because we will all have to help pay the bills, and so will our children, their children's

children and many generations yet to come. If the war were to stop tomorrow, the wanton waste it has caused could not be paid for within the coming century. The burden has been placed upon all humanity, there must be an accounting, the price has to be paid and we must all make the best of the unfortunate world conditions. We cannot settle the matter by playing politics, but we can benefit others and ourselves by remaining at peace. The "high cost of living" is a whole lot better than the high rate of dying," as one of our correspondents puts it.

From all over the country come reports that farmers and others are selling off their poultry and reducing their flocks. The causes are presumed to be excessive cost of grain and the better prices than usual that are obtainable for market chickens and fowls. We believe that it is a big mistake to reduce

flocks too much. It is wise to cull out the wasters and old birds while the demand is good and prices are high. One should not endeavor to carry larger flocks than can be well fed and properly cared for. It is wise to winter only such birds as are known good breeders or prove to be good producers. But it is a good time, right now, to KEEP GOOD POULTRY.

We believe that the close selling is, in a measure, offset by increased buying of laying and breeding stock by beginners who have become interested in poultry as a means of lessening the cost of the family food supply. In spite of the high cost of grain and milled foodstuffs, it is not difficult to produce eggs and poultry meat at home—wholesome food that you know is good—at a much lower price than one can go into the market and buy food of equal quality and food value. It is a good plan to keep poultry, that the fowls may help keep you.

D. Lincoln Orr, who, as a miller and grain dealer, as well as a poultry fancier, is in close touch with the situation, writes: "Grain is still soaring, corn \$1 per bushel in carload lots, 1000 bushels, pay before the car door is opened; best wheat as high as \$1.85 per bushel; middlings and bran crowding \$30 per ton; barley today quoted at \$1.23 for 48 pounds. (These are wholesale prices). I do not feel that these prices are justified, but we have to pay them. It is a hard question what to do—load up and they may drop; don't buy and they go up. However, I feel the safest game is to buy only what is needed for present use, as prices cannot go much higher it seems to me. I feel they have been boosted beyond what they should by speculators.

"It looks to me that many fowls will be marketed this fall and that will make eggs high, also fowls later on. I am eating broilers very frequently now, as meat is high and I have lots of broilers all paid for, so I am eating them."

Reports from Office of Markets of the U. S. Dept. of Agriculture show that there is a considerable shortage of eggs in cold storage as compared with same periods last year. The demand for new laid eggs is good and the prices are better than usual at this season, with every indication of climbing higher. Fowls and chickens are selling at good prices in spite of the reported heavy selling and when the close selling by poultry keepers is checked there will be better prices offered. We have not sold closer than usual this fall and intend to winter a good sized flock of the most promising breeders and layers.

We are buying supplies, as needed, about as usual. We are using more eggs and poultry on the home table than common and we generally use home-grown eggs and poultry pretty freely. We find that the fowls pay the grocery bills, supply us with plenty of good, wholesome, reasonable cost poultry meat and eggs—food that we know gives us the greatest value for our money—and help us to considerably lower living expenses by reducing the amount of expensive other meat required. We have plenty of broilers and roasters—as Mr. Orr says: "all paid for"—and we are eating them and growing others to supply the winter and spring table—also, we are selling some of the surplus at attractive prices to help out on the grain bills. We are not trying to unload our flocks on the market to save grain bills, but are making our own prices and selling to private trade only. If customers do not want the

chickens at our prices, we will keep and eat the birds ourselves; but we have yet to find any prospective customer who haggled over the price after he saw the birds.

Those who are interested in poultry, and who have room for even a small flock, will find it a good time to engage in poultry keeping. Aside from the satisfaction of having home-grown eggs "with the new-laid bloom on" for the family breakfast, the home flock will be found to be a very considerable aid in helping to cut down the cost of family food supplies. When living cost is high, it is a good time to keep good poultry.

Feed Liberally.

FEED liberally. Give your fowls an abundance and a variety of wholesome food. Feed liberally, but do not waste the food. Do not imagine that you can save money by cutting down the food supply or by feeding "cheap" foods.

Cold weather is here and there is colder winter coming. Your birds need an abundance of wholesome food in order to resist the cold, keep in good condition and be productive. You can legitimately and successfully lessen the cost of feeding by supplying good alfalfa, clover, and vegetable foods, to give bulk to the ration and the use of such food-stuffs will keep the birds in better order.

We once knew a man, who, when the fall moulting season came on and the fowls stopped laying, cut off the food supply, all but a scant feeding of whole oats once a day. Said he: "They don't lay, so I won't feed 'em until they do." Sickness overtook the flock and he buried most of them.

Another poultry keeper, when the egg flow ceased in the fall, gave his hens no food except what they could pick up around the farm, and apple pomace from the cider mill. He wondered why he "had such a time with colds" in that flock and "got no eggs." When he finally began feeding more freely, he did not get results but had colds and roup to contend with all winter.

A recent correspondent complained that his hens stopped moulting. He had been getting a good egg yield, but when the hens stopped laying and began to moult he shut down on the regular ration and gave oats and bran only. Naturally the moult stopped. It will be remarkable if that starvation diet at moulting time does not produce serious results and some expensive experience.

In order to produce exhibition quality, to grow chickens properly, to keep adult fowls in good condition, to get eggs, to have fowls moult properly, it is necessary to feed liberally on wholesome food in reasonable variety. A well-known fancier, who wins regularly at the big shows, writes us:

"What chickens I have are making splendid growth, and eating me into the poor house, but am feeding them just as the grain came free for the asking."

He knows the value of liberal feeding, even tho he does joke about the "poor house." Those chickens that were making "splendid growth" and being fed "just as the grain came free for the asking" will be strong in the ribbons and will sell at long prices. You can't get something for nothing. It takes liberal feeding to get satisfactory results with poultry.

Sex Control.

IN THIS issue we present the sixth chapter of Herb E. Sharp's series on "Sex Control in Poultry Breeding." This series has attracted a great deal of attention among breeders of poultry and live stock. Chapter I was published in AMERICAN POULTRY JOURNAL for April, 1916.

Mr. Sharp believes that he has succeeded in producing a strain of Black Langshans that can be depended upon to produce a very large percentage of pullets if properly bred. He has gone to considerable trouble and expense to endeavor to prove his case to our readers and to our personal satisfaction. It seems fitting at this time to present our report of results with Sharp's Lang-

shans in the 1916 breeding test at the Anchorage Farm.

It will be remembered that Sharp's hen No. 62 was awarded to J. F. Robinson, of South Weymouth, Mass., as first prize in a Black Langshan article contest published in January, 1916, AMERICAN POULTRY JOURNAL. This hen later won first prize in the utility class at the big Boston Show and her picture was published in March issue. Her record, as given by Mr. Sharp, was 22 chickens from 28 eggs, 18 of the chicks pullets and 4 cockerels. In April we traded with Mr. Robinson and secured hen No. 62 for our experimental yards, Mr. Robinson having decided that he did not want to bother with testing the pullet producing trait.

On February 26, 1916, we received from Mr. Sharp, three sex-bred Black Langshan females and a male. These had made a nine-day trip from Spokane and had been badly handled by transportation company, in fact nearly starved, so much so that they had developed egg eating. It took us some time before we cured the egg eating habit, and, for a while, we had some difficulty in getting fertile eggs. This last we attributed to the fact that the cockerel was rather immature for breeding purposes. We personally attended to the trap-nests used for these birds, marked the eggs, set each hen's eggs separately, did all hatching under hens, and marked the chicks when hatched. We lost two sittings during the second week of incubation thru a raid by skunks.

The second week in October we rounded up all of the Sharp chicks and made a count of the sexes. We found we had just 64 chicks from the sex-bred Langshans. Of these there were just 20 cockerels and 44 pullets.

From hen No. 61 we had 22 chicks; 7 of these were cockerels and 15 were pullets.

From hen No. 63 we had 17 chicks; 3 of these were cockerels and 14 were pullets.

From hen No. 64 we had 10 chicks; 4 of these were cockerels and 6 were pullets.

From hen No. 62 (the contest prize hen) we had 15 chicks; 6 of these were cockerels and 9 were pullets. This hen No. 62 presents some interesting evidence from which the reader may draw his own conclusions. We assumed that the eggs she produced during the first two weeks we had her, were most probably fertilized by a Robinson male. We kept and set these eggs separately. From these early eggs we had 6 chicks; 3 of which were cockerels and 3 were pullets. From her later eggs, fertilized by mating with the Sharp strain cockerel, we had 9 chicks; 3 of which were cockerels and 6 were pullets.

The facts are as presented and the reader may draw his own conclusions. Any way you take it, the showing is a remarkable one. Mr. Sharp may feel that he has proved his case and that we are according him faint praise when we

Platt's Wonderful RED SUSSEX

Some special values in large, vigorous, well-bred cockerels. Richly colored. If your females come penciled, or light in breast and back, or if your cockerels come white in undercolor, or black in breast, let me prescribe a cockerel that will straighten you out.

Reasonable Prices. - - F. L. PLATT, SWANTON, OHIO

AMERICAN WHITE ORPINGTONS

WILL WIN FIRST PRIZE
FOR YOU ANYWHERE



We can furnish you a Cock, Hen, Cockerel, Pullet or Pen from the "best line of males in the country." Every individual an American line-bred bird of eight years' standing. Pure white color, massive type and heavy laying ability are so intensely bred into these birds that they are acknowledged supreme by all. The most reliable reproducers of any strain. Ask any judge or breeder that knows, "Who has the best White Orpingtons?" "Woolery Farm, of course!" These birds are American line-bred and they win and lay. No breeder today can give you more in real value, nor will go further to give you the best satisfactory service.

We are the originators of the American bred White Orpington, and want all good breeders to know and appreciate their value. Get our winnings at the National Club shows, Chicago Coliseum, Madison Square, Hagerstown, Cincinnati, Indianapolis, and remember we bred every one of these winners, his sires and grand-sires. If you breed strictly Woolery Farm's American-bred strain you breed the best, and if you can advertise them you will find a ready market for all your surplus stock and eggs. Write us your requirements today; we can fill them promptly. New Catalog-Mating List ready January 1st. Register your name for one now.

WOOLERY FARM, Ralph Woolery, Prop., Box A, Bloomington, Ind.



Buff Orpingtons

100 FASHION PLATE cockerels, 25 cocks, plenty of hens and pullets, all in good finish for early shipment. Send for Fashion Plate Book—Free.

A. E. MARTZ, BUFF ORPINGTON SPECIALIST AND JUDGE Box A, ARCADIA, IND.

say that we are still "from Missouri" and want to make another full season's test of these birds and the breeding of their progeny. In fact we may decide that we require more than one more breeding season in order to satisfy us that he has actually discovered the secret of sex control in poultry.

His presentation of the case in his series of articles has been able, reasonable, and convincing. The experimental flock, which he placed in our hands without reserve, have "delivered the goods" by yielding a remarkably high percentage of pullets. The stock is sound and vigorous and the chicks healthy and growing well. This makes a favorable showing for closely inbred stock.

Hen No. 63 certainly made a remarkable record. No. 61 was the hen we expected to give us the best results, and the record shows the singular fact that her early chicks came 4 cockerels and 12 pullets, while the last clutch of her eggs, set late in season, gave 3 pullets and 3 cockerels. These were the last eggs of her string and she hatched and raised the brood herself.

"Prince Ebony" strain Langshans gave us a little more than half cockerels. Eggs from Robinson Langshans gave us nearly 60 per cent cockerels. From our experience with Black Langshans this season, both with adult fowls as breeders and layers and with growing chicks, we are very much pleased with them. They make fine big chickens that grow quickly and make flesh comfortably, the eggs are large and hold a fine brown color; both old and young stock are uncommonly active for their size and prove excellent foragers. As layers the adult hens and 1915 pullets which we secured have made a wonderfully good showing. The "Lordly Blacks" have not disappointed us in any particular, but we note that, altho they are Asiatics, they possess a nervous disposition that is only equaled by the Mediterranean breeds.

The National Dairy Show.

DURING the past ten years the National Dairy Show has grown to be the one great agricultural event, not only in size but in importance and attractiveness, of our great national dairy industry and allied branches of agriculture.

Springfield, Mass., October 12 to 21, 1916, presented the first of these great National Dairy Shows to be held east of Chicago. Not only was the dairy in-

TO OUR READERS.

Our subscribers are our friends and we use every effort to protect them in every way. We believe that every advertisement in this issue is signed by trustworthy people, and to prove our faith we will make good to our subscribers any loss sustained by virtue of their having purchased fowls or goods from one of our display advertisers.

All we ask is, that in ordering the fowls or goods, you mention to the advertiser that you saw the ad in American Poultry Journal; also that the purchase be made during the month or months in which the ad is inserted, and in case of loss notify us of the fraudulent misrepresentation of the advertiser, giving us full particulars as soon as it occurs. In all cases in writing to advertisers say, "I saw your ad in American Poultry Journal."

dustory represented, but from far and near came exhibits of all special branches of agriculture which are associated with the development of the dairy cow. There were big nursery exhibits, displays of dairy machinery and a wonderful variety of labor saving farm machinery and implements; specialty association exhibits, big herds of dairy cattle, representing the highest development in the various breeds. It was a big exhibition and a source of inspiration to all who attended it. The key note of the whole was closer operation of all concerned, better tools, better equipment and greater efficiency.

We made a special trip to the show for the purpose of seeing Harry M. Lamon and his assistant, Joseph W. Kingborn, of Poultry Investigations, U. S. Department of Agriculture, who were there in the interests of the Girls' and Boys' Clubs. One of the biggest, most important and most interesting features of this big Dairy Show was the department devoted to the Girls' and Boys' Clubs, representing the work of school girls and boys throughout the country, and particularly in New England. Corn Clubs, Potato Clubs, Pig Clubs, Fruit, Canning, Domestic Science and all branches of boy and girl endeavor on the farm were represented. And, of course, to us the exhibits of the Girls' and Boys' Poultry Clubs, occupying a special tent, proved decidedly interesting; in fact this was one of the centers of attraction of the great show. No one can attend such inspiring exhibitions without realizing the great importance and broad scope of the work undertaken by the United States Department of Agriculture on behalf of our girls and boys.

We believe that at Springfield has been started the nucleus of a big annual poultry show for the Girls' and Boys' Clubs. A work that is well worth while and deserving of hearty support and encouragement from all persons and asso-



"Lady Alfarata," 301 Eggs

Stock, Eggs, Baby Chicks

From My Improved Laying Strains of

S. C. and R. C. Rhode Island Reds

White and Barred Plymouth Rocks

White and Buff Orpingtons

White Wyandottes

White Leghorns

and your careful attention means your success. This is your opportunity to procure a start from strains that have given entire satisfaction to over 4,500 customers in this and foreign countries.

Stock Sale

In all my breeds I have some exceptionally good breeders (hens and cocks) to offer for the first time. It is the stock that has produced the eggs and chicks for over 4,500 satisfied customers. My regular prices are very reasonable. This gives you the opportunity of buying real layers, a foundation for future success. I have some very good cockerels and pullets growing nicely. You may want some of them. Advise me of your wants. I will be pleased to quote you prices on same for early fall delivery. Do not overlook the advantage of booking your order now. It means a reserved selection and mutual benefits.

Write for my instructive illustrated catalog. It has helped others and will undoubtedly help you.

JOHN G. POORMAN

Box 100

Tinley Park, Illinois, U. S. A.

Smith's Strain White Leghorns

Most Consistent Winners in America! Can furnish Exhibition Birds that will win for you or Utility Birds to improve egg-laying. Catalog free. Eugene Smith, 317 Galena Blvd., Aurora, Ill.

Barred Plymouth Rocks

Lady Beautiful Strain. Wonderful records have been established by my birds at Madison Square Garden, Philadelphia and Hagerstown. This record includes many first and other prizes. Eggs for Hatching from these winners at reasonable prices. Now is the time to buy. Satisfaction guaranteed. Mention American Poultry Journal.

C. N. MYERS

Box E

HANOVER, PENNSYLVANIA

CARVER'S R. I. REDS

Chicago, Madison Square Garden, Ohio State, Forest City, Allentown, Syracuse. Won over one hundred Blue Ribbons.

Rhode Island Reds as Red as Grows
Importer from England's Best Sussex

A. A. CARVER

Specialty Breeder

SEVILLE, OHIO

CARVER'S SPECKLED AND RED SUSSEX

ciations interested in the big pure-bred poultry industry.

We understand that the showing at Springfield was so encouraging, showed such keen interest on the part of the girls and boys, that Massachusetts is likely to be one of the first of the Northeastern states to have a special representative of the U. S. Department of Agriculture for the purpose of developing the work of Girls' and Boys' Poultry Clubs. We urge all who are interested in poultry to get in touch with Harry M. Lamon and boost for the greater development of this progressive work for our girls and boys and for the betterment of all pure-bred poultry interests. In our December issue we hope to be able to present some photographic views of the Girls' and Boys' Club exhibition at the great National Dairy Show.

The Tight Hat Band.

WHENEVER you feel your hat band beginning to get tight—or any other symptom of “big head”—take warning; just “stop, look and listen” or you may get bumped.

COAT YOUR ROOF *with*

Atlas Asphaltum Paints in colors.

Save the price of a new roof by renewing the life of your old one.

Write for prices and particulars to

THE ATLAS COMPANY, LINCOLN, N. J.

S. C. Buff Leghorns

Chicago, St. Louis, Rochester, N. Y., and Milwaukee
Winners. Send for prices to-day.

C. H. LEITNER R. F. D. 4, Box 8 ELGIN, ILL.

Confidence in yourself is a good thing, if you don't overdo it to the extent of hypertrophied self-importance and exaggerated ego. When your self-conceit reaches a point where you live and thrive on flattery and the fawning advances of other self-seekers; when you are beginning to believe that you are the only man for your job and that your services are indispensable to the rest of mankind; it is a pretty good plan to slow down before you start skidding.

No matter how good and clever you are, no matter how well you can manage your particular line of work, no matter how snug you sit on your job, there is always someone else who could take that job off your hands and do it just as well and probably a little better. Just remember that no matter how big a man gets, how indispensable he makes himself, how capable he may be, there is always some other man ready and waiting to take on the work and to endeavor to prove more efficient at it. Good men have passed out and have been sorely missed, yet plenty of other men have promptly turned up to take their places, to carry on the work and to improve on it.

A good opinion of yourself is a good thing when combined with plenty of willingness to keep learning and to keep driving onward. But it don't pay to get balky, to attempt to stand in the way of progress, to think that you know it all and that your way is the only way. Just consider “safety first” and don't let “big head” symptoms grow on you; for once you get bitten by the bug of exaggerated self-importance you are headed for the toboggan and the discard.

Winner in Article Contest.

IN the September issue, M. C. Wilson, of Oil City, Pa., offered a show pen of his “beauty and business” Rose Comb White Leghorns to the reader of AMERICAN POULTRY JOURNAL submitting to us the best article on “Why All International Egg Laying Contests Should Award the Prizes to the Hens Laying the Most Pounds of Eggs, Instead of the Largest Number of Eggs.”

The prize goes to T. Harris Boughton, Wilmette, Ill., and his article, “Weight, Not Numbers, Egg Value Standard” appears in this issue of A. P. J.

This was one of the best and most satisfactory article contests which AMERICAN POULTRY JOURNAL has conducted. Thirty articles were received, representing all parts of the country and every article presented a good argument. Not less than half of these articles are so good and so ably presented that we hope to publish them as time and space will permit. We enjoyed reading them and have no doubt that our readers will find them equally interesting. We believe, also, that they will help toward the eventual selling of eggs by weight, which is the standard by which food values are determined, not the number of small packages in which the food is contained.

The editorial staff had a difficult time of it picking the winner in this contest; when we got down to the nine best articles it began to look as if we might have to put the authors' names into a hat and hold a “drawing” to decide the issue. A final reading and ballot, however, fixed on Mr. Boughton as the winner and he has our congratulations.



“REGAL QUEEN”, FIRST BOSTON HEN, 1913

Four Judges in Four Years

Yet the

Regals Keep Winning

AT THE NEW YORK STATE FAIR

Under Judges Drevenstedt, Cleveland, Graham and Atherton, the result has been the same. This year my birds were again awarded the

Grand Prize

which was the Manning Cup for the best ten birds in the show (final possession.) My total win was:

Cocks, 1, 2, 3, 4, 5; Hens, 1, 2, 3, 5; Ckls., 1, 3, 4, 5; Pullets, 5; Pens, 1, 4, 5; Best Display for the 11th time.

Under four of the best Wyandotte Judges in America my birds have proved to be far in advance of my competitors. My customers do just as well—scores of reports have been coming in from all parts of the country. At the Canadian National Exhibition the bulk of the premiums in White Wyandottes were won on Regal stock bred by customers. The following winnings have been reported to date: Cock, 3; Hens, 2, 3, 4; Cockerels, 1, 2, 3; Pullets, 1, 2, 3, 4. If you want to make a success of your White Wyandottes, get Regal stock.

5000 — Cocks, Hens, Cockerels and Pullets for Sale — 5000

SPECIAL To make room for young stock, I am offering 30 special value pens at \$25, \$35 and \$50; also fifty early hatched cockerels at \$10 each. In writing, state whether you want birds of exhibition or Dorcas breeding.

JOHN S. MARTIN

Box 51

FREE Send for catalog and sale list, giving description of several hundred breeders I am offering for sale. Send one dime for the Regal White Wyandotte Book, telling all about White Wyandottes.

PORT DOVER, CANADA

DR. WOODS' NOTES AND COMMENT

O what a glory doth this world put on
For him who, with a fervent heart, goes forth
Under the bright and glorious sky, and looks
On duties well performed, and days well spent!
For him the wind, ay, and the yellow leaves,
Shall have a voice, and give him eloquent
teachings.

—Longfellow.

* * *

Thus far it has been a glorious autumn and the promise is good for a wonderful Indian Summer. Nature is full of compensations and, to all who made the best of the cold, wet spring and dull, moist, early summer, she is paying full measure in a bright and beautiful fall season, to ease the rigors of the approaching winter's chill.

* * *

With uncommonly fine weather conditions for the season, the work of getting things snug for winter is progressing rapidly and favorably. The adult stock birds are in fine fettle and the youngsters are decidedly promising.

* * *

October was a marvelous month, a great month for tourists, and we have never before noted such a volume of automobile travel. Cars from nearly every state in the Union have passed our place "seeing America first" and particularly beautiful New England. The October foliage has been remarkably fine this year and weather conditions have been all that could be desired. Everybody, with his wife and family, seemed to be on wheels and worshipping at Nature's shrine this fall.

* * *

A great deal has been said, pro and con, about the Everbearing strawberries. While it is probably true that these fine strawberries may not prove profitable as a purely commercial proposition, we believe that no family garden is complete without an everbearing patch. Our experience has been very satisfactory. Unfortunately we do not know what variety of everbearing berries we have. Last spring, when we were very busy with other matters, a nursery agent pestered us until we invested \$3 in a hundred plants, chiefly to get rid of the agent. It has proved to be the best \$3 we ever invested in plants. In due time the berry plants came and were set out. Since early in July we have been furnishing the family table with delicious strawberries twice a week from that little everbearing patch. On Friday, the 13th of October, after frost had killed everything else in the garden, we had a fine big strawberry shortcake from that bed of everbearings and never did strawberries taste so good. It looks as if we would get one or two more pickings before the freezing weather puts an end to bearing. Whatever may be the facts about the everbearing strawberries from a commercial point of view, we believe that our friends will find them a good investment for supplying the family table with superior quality berries out of the regular season.

* * *

During October's second week we made a 45-mile trip to beautiful Old Silver Beach in Falmouth, cooked dinner on the beach and enjoyed a fine swim in the briny ocean. The day was mild, like mid-summer, and the water

warm, with just enough surf to make it good fun. There were picnic parties all along the shore and some of the fishermen made fine catches of big tautog, caught in the surf off the rocks. Wild geese and ducks have been plentiful since the season opened.

* * *

And that reminds us: If you kill or capture a wild duck bearing an aluminum band around one leg, having a number on one side, and on the other a statement requesting that the U. S. Dept. of Agriculture, or Biological Survey, be notified, you are requested to send this band at once to the Bureau of Biological Survey, U. S. Dept. of Agriculture, Washington, D. C. This band, if accompanied by a statement as to date, place, and circumstances under which the bird was taken, will be of service to the Survey in its efforts to determine the

longevity of individual ducks and the routes of migration of the species. The bands are being attached to considerable numbers of wild duck of several species which have been cured of the duck sickness prevalent around Great Salt Lake, Utah, and there released. The Department is particularly anxious to secure reports from these birds to determine their complete recovery from this malady which has killed hundreds of thousands of ducks in Utah.

* * *

High winds and lightning ripped down a few old apple trees this season and we had the wood sawed up into fireplace lengths. Old apple tree wood, full of punk, is the fireplace wood par excellence. Save it and store it away for the short days. No matter how punky and rotten apple tree wood may seem, it will yield both pleasure and warmth

*Never had so many good ones to sell as now
H. W. Halbach*

GET THE BEST

WHETHER you want a show bird that can win, or breeders that can be depended upon to improve your flock, a prepotent sire or a prolific female, it will pay you to make your purchase where quality has been the watchword from the beginning—from the strain that has produced the most sensational winners in the big shows for years, from the breeder who can and will give you the best values.

In White Plym. Rocks You Can't Beat Halbach's

The unparalleled win of my birds at the great Coliseum, Chicago Show, December 13-18, 1915, was the final link to the chain of victories that has given them the undisputed championship. 1-2-3 Cock; 1-2-3-5 Hen; 1-2-3-4-5 Pullet; 2-3-4 Cockerel; 1-3 Young Pen; 1-2 Old Pen. ALL CHAMPIONSHIPS.

In the opinion of experts from every section of the country there never has been shown to date a string of White Rocks that so nearly approached the highest ideals of the breed. And every individual was bred on my farm—is the product of years of careful breeding—represents bred-in quality; not accidental quality. It is in the blood. You who buy of me may possess it—and it will be reproduced. I have hundreds of birds of superlative merit, closely related or directly descended from my great champions. Any one of them will breed the quality you seek. Every one of them is vigorous, active, prepotent. Every one of them is worth many times the price I ask for them as individuals for their breeding value alone. My thousands of satisfied patrons the world over are proof that my birds make good—invariably—in show room or breeding yard. And when I say to you that never in all my years of experience have I had so many good ones to sell as now, it means that Halbach's guarantee of satisfaction signifies more to you this year than ever before.



Write Me for Show Birds or Breeders, I'll Please You

Without exception my personal attention is given to every order. Whether you buy the lowest priced bird on my place or an outstanding exhibition specimen, it is my honest endeavor to fill your order just as I should wish to have one of mine filled by you. And every time, if what I send is not satisfactory in full measure, my customer may return it and get his money back. Write me today for what you desire to obtain. Make up your mind to own White Rocks from the real Champion Strain and you can win. Large catalog, 20 cents.

H. W. HALBACH

R. 1, Dept. H

Waterford, Wisconsin

WINNERS AGAIN

At Hagerstown, where there were about 9,000 entries and every class well filled, Monmouth Farms demonstrated again its right to the title of America's Premier Leghorn Farm. Against the stiffest competition, we won almost every first and second prize in Whites and went far ahead of any other exhibitor in Buffs.

Does It Mean Anything to You?

Wouldn't you like to be represented in a show by birds of this character? It's the surest way we know to come out with Blue Ribbons. Better write us today—right now. Tell us where you want to exhibit. We'll help you win.

HAGERSTOWN WINNINGS

Whites 1st and 2nd Cock
1st, 2nd and 4th Hen
1st and 2nd Cockerel
1st, 2nd, 4th and 5th Pullet
1st Old Pen
2nd Young Pen

Buffs 1st and 2nd Cock
1st Hen
2nd and 4th Cockerel
1st Old Pen
4th Young Pen

Best Display in both classes and many Specials.

MONMOUTH FARMS

Watts Bros.

Box 23, FRENEAU, N. J.

Trap-nest Your Layers

and trap-nest them with a nest that *prevents breaking and eating of eggs*. The Automatic Trap Nest does this and more. It is the most economical and satisfactory trap nest on the market. Write for full particulars and prices. We also sell feed hoppers and drinking fountains.



Celluloid Leg Bands
12 for 15c; 25 for 30c; 50 for 50c; 100 for 75c.

Aluminum Leg Bands
12 for 15c; 25 for 25c; 50 for 40c; 100 for 65c.



AUTOMATIC TRAP NEST CO. 475 Wisconsin St. KENOSHA, WIS.

"Premier" Partridge Wyandottes

For Utility and Beauty. Fine Winter Layers.

If you want to win at the Fall and Winter Shows write us at once. Our "Premiers" win the majority of prizes wherever shown. Young stock of unexcelled quality now ready for you. Interesting illustrated Partridge Wyandotte Book free. Send for it.

SHEFFIELD FARM, H. B. HARK, Mgr. Poultry Dept. GLENDALE, OHIO

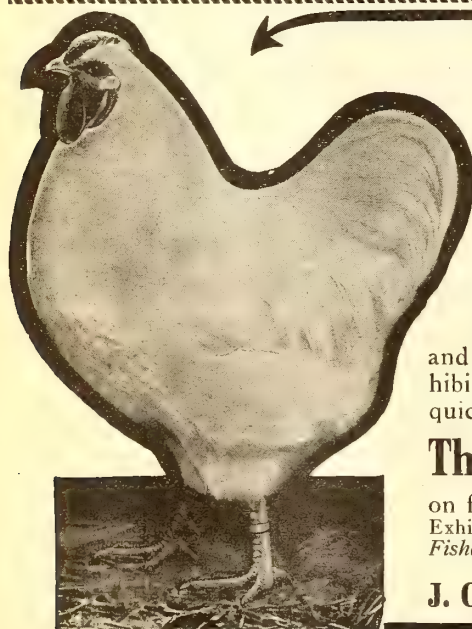
A Fancier's Pride in His Work

We're proud of our birds because of their quality. Proud of our 8 years spent in perfecting this quality. Year by year, as our business has grown, we have discovered new and better methods of breeding, mating, feeding and housing. The four factors that go towards making blue ribbon winners. We want you to know all about "Mirimichi Quality," about our wonderful winnings at the World's Fair, New York, Boston and other shows, so we have prepared a catalog that gives you an insight into our "Quality." S. C. Rhode Island Reds, White Rocks and White Wyandottes. This book is free, so write for it today.

Breeders of Birds that Win, Lay and Pay

MIRIMICHI POULTRY FARM

W. H. Saart, Box 100, FOXBORO, MASS.



Fishel's Wh. Wyandottes Are World's Champions

THE past five years Fishel & Son's strain have won more prizes than any other strain of White Wyandottes at from three to seven shows a season, including the Great World's Fair at San Francisco. No other breeder of this variety can show such a wonderful list of winnings. Our customers are winning over all competition and while this strain is bred to the highest degree of perfection as to exhibition points, they are bred equally as well for utility, (meat, eggs and quick growth.)

Thousands of farm range birds for sale, bred by our winners and brought to maturity on free range which insures health, vitality and vigor. Exhibition birds conditioned and guaranteed to please you. Get Fishel Service which cannot be equaled. Send for our catalog.

J. C. FISHEL & SON Box J HOPE, INDIANA



when used in the fireplace. Since the long evenings have been with us, the whole family have enjoyed sitting about the open fire, on the old fashioned hearth, learning the wonderful tales that none but the old apple wood can tell, when the frosty winds clamor outside the door.

* * *

At this time, before real severe freezing weather sets in, remember that cabbages make fine green food for breeding stock and layers. Where cabbage is freely fed in the fall we believe that the old birds clean up the moult in much better shape and begin laying earlier. Don't feed frozen cabbage. If cabbage has been frosted, thaw out in a tub of cold water before feeding.

* * *

Egg prices are climbing higher for first quality, new-laid eggs. Bear in mind that soiled, dirty, or washed eggs will not be accepted as first quality. Renew the nest material often, keep the nests clean, keep clean litter on the floor of house, gather eggs often. It takes a little care to get clean eggs, but it is well worth while.

* * *

Cooked yellow pumpkin and squash, fed plain or in a moist mash—as much as will be cleaned up quickly in the daily ration—will help to put that desired golden yellow color into egg yolks. Yellow corn and good, well-cured, cut clover are also helps in securing rich colored yolks.

* * *

If you find that turkeys are scarce and high in price, try a well-fattened, home-grown capon for the Thanksgiving dinner. If you fail to have capon for the family table, now and then, you are missing one of the finest table delicacies. Capons can be produced at home at far less cost than you will have to pay for other meats—not half so good—in the market. Get more poultry onto the family table, the combinations you can make with fowl, capons, roasters, fryers and broilers, are many, economical, nourishing and satisfying. The cook will tell you that there is nothing equal to home-grown chickens and eggs.

(Continued on Page 1245)



Aldrich White Orpingtons

The Combination Strain of Quality

During the last five years we have exhibited at MADISON SQUARE GARDEN, CHICAGO COLISEUM, ST. LOUIS, PITTSBURGH, BALTIMORE, ALLENTOWN, BUFFALO, ATLANTA and AUGUSTA, winning 280 regular prizes and many specials, in competition with the best in America, Canada and England. Last season at Chicago, Allentown, Buffalo, St. Louis and MADISON SQUARE GARDEN, our birds won 57 prizes; we won 18 firsts, or **twice as many firsts as all our competitors combined**—a record never before equaled by one breeder of White Orpingtons in America. At the great Hagerstown Fair, October 10th, 1916, we exhibited eighteen birds, winning first and second cocks, first and second hens, first and second cockerels, first and second pullets, first old pen and first young pen, also special for best Orpington female and special for best Orpington male.

No other breeder has ever equaled our record of winning First Cockerel at Madison Square Garden three years in succession, and we have also won **First Pen three years in succession** at both Chicago and Madison Square Garden. No other breeder has ever equaled our record of last season in winning First Cockerel at both Chicago and New York; nor has any other breeder succeeded in breeding birds good enough to win **first prize both as cock and cockerel** at both Chicago and Madison Square Garden. Last season we won First Cockerel in all shows exhibited at, and also First Cock in all shows competed for. This is ample proof that we have produced the

Best Line of Males in America

For many years in all of America's and Canada's best shows our customers have won the most coveted prizes. As we only sell one customer at a show, **your competitor cannot win** if you place your order with us early. We are the originators of the American-bred

Combination Strain of Quality

By trapnesting our flock for many years, selecting only breeders each season bred from our highest egg record females, selected also for exhibition type, quality and size, we have perfected our strain until we can supply our customers birds of **exhibition quality combined with high egg production**, and at prices no greater than are asked by any reliable breeder who breeds only for egg production, neglecting show qualities.



First Cock, Chicago Coliseum, 1915

WINNERS IN LAYING CONTESTS

At the National Laying Contest at Mountain Grove, Missouri, during 1914, 4 pullets selected at random from our pens laid 729 eggs, an average of 182 eggs each, valued at \$5.28 per pullet, as against the English Leghorns with an average of 229 eggs each, or \$4.38 per bird. This plainly shows the advantage of the great winter laying qualities of the White Orpingtons. In 1915, a pen of Aldrich Strain White Orpingtons, in the same contest, laid **492 eggs during the five winter months**, an average of 98 eggs each, as against an average of 40 eggs by the Barron Leghorns. One Aldrich Strain White Orpington pullet laid 200 eggs in nine months and twenty days, being the most laid by any bird in the entire contest, 79 pens all varieties competing.

We Have Made Our Reputation. Let Us Help You Make Yours

We have one thousand birds now ready to win for our customers in any competition, many of them sired by "American King," CHAMPION WHITE ORPINGTON MALE OF AMERICA, and MADISON KING, the only American-bred White Orpington male that has won twice at Madison Square Garden. By securing birds bred from the above winners, you will have the best blood lines in the world in White Orpingtons in your flock.

If you wish to make a profit raising chickens, secure your birds from the Strain that is best known in America today. Every one now recognizes that the Aldrich White Orpingtons are unsurpassed, and those advertising Aldrich Strain have a big demand for their stock and eggs. Our new catalog with color plates and prices is now ready, and it is free if you mention American Poultry Journal. To save time, tell us your wants in first letter.

Aldrich Poultry Farm, 5081 North High Street, Columbus, O.



FIRST PRIZE HEN, BOSTON, JAN., 1916.
HOMESTEAD CAMPINE FARM, WAYLAND, MASS.

Something Different

You never knew of a representative of a poultry journal to write an advertisement and sign his name to it. But this is the real truth. I do not hesitate.

READ ON. This advertisement is written by the Eastern representative of this journal and it tells the story of why, to my mind, the name of "Homestead" dominates in the world of

Silver Campines

Such authorities on breeding as D. W. Young, E. B. Thompson, etc., maintain that good housing and feeding play an important part in the birds' plumage, type and shape. If this is true (and who are we to pass judgment on these authorities) then Homestead Campine Farm should raise the greatest birds in the world.

ALL IN ALL I have visited hundreds of poultry plants, but I truly think that the "Homestead" has the cleanest plant in the United States or Canada. This, together with the feeding, is bound to give these birds character.

THE BIRDS you find there have those three much desired points, good clear neck hackle, good breast and good clear markings on upper part of body right to tip of tail.

DO NOT mistake my meaning, they are not all perfect, but I do not think there is a bad bird in the flock.

THE YARDS and range are perfect, you cannot find a blemish on them, in fact they remind you more of the front lawn of particular people than a poultry yard. Houses are of open-front type. Dropping boards are covered with "peat moss," which absorbs the moisture in the droppings, thereby assuring pure fresh air.

YOU ARE THE JUDGE. Do you wonder that under such ideal conditions the birds thrive so well and repay their owner by capturing so many prizes.

AS LAYERS of large white eggs, with a certain flavor all their own, these Campines cannot be excelled, and as a table fowl—well it reminds you of eating partridge.

THEIR RECORD as winners in the show room would cover pages. Suffice to say that always you will find them blue ribbon winners at Madison Square Garden, Central Palace, Boston, New York State Fair and the smaller shows.

YOU RUN NO RISK. The vigorous strain of Silver Campines will suit you and when you give them your order, rest assured you will receive real value for the amount you send them.

Write for prices and be sure to state if you want birds for breeding or exhibition.

P. S.—They issue a handsome catalog, full of real information. Send five 1c stamps for copy.

HOMESTEAD CAMPINE FARM
C. A. Phipps
Box A WAYLAND, MASS.



THIS month we will put the mulching on the strawberry beds if the ground freezes, as it usually does here in November. All bushes, such as currant, gooseberry, raspberry and blackberry bushes will receive a good lot of stable manure. Proper pruning and liberal feeding of these bushes is the secret of lots of big berries.

It is a pleasure to look over the garden and vineyard, orchard and berry fields and to note that all is in readiness for the long cold winter that is but a few days away. The bees are snugly housed in their winter cases and will not mind the cold. The poultry has been properly cared for, and will enjoy the winter in their comfortable quarters, the cellar is crowded with home-grown vegetables and the coal bin is full. So let the north winds howl and do their worst. "Who's afraid?"

I picked a few Senator Dunlap strawberries the other day. The late fall rains brought them out. Somehow they did not appeal to me. In fact, the ever-bearing varieties which give a few berries in the fall are not given room on our place.

As a reader of your interesting horticultural department, would like to ask a question. Is there any way to keep borers out of apple trees, other than getting them out by hand? Please answer in American Poultry Journal.
Texas. J. L. Hendrix.

There are a great many preparations on the market, each held to be a sure preventive of tree borers, but which in fact are only partially effective. I have had the best results by the use of sulfocide. I now paint all of my fruit trees—the trunks and up some distance in the forks with this preparation. Once in a while I have to resort to the use of the

knife and wire to remove worms from a tree, but very seldom.

I was reading one of your articles in American Poultry Journal where you recommended "Royal Purple" raspberries. Will you please inform me where I can get a few bushes? Would you advise planting that variety in this section?

Tennessee.

T. M. Potter.

Royal Purple raspberry was introduced by L. J. Farmer, Oswego, N. Y. It can be purchased from most of the Eastern nurseries. I think it would do well in Tennessee. Would advise you to try a few plants.

Your horticultural talks in the American are highly appreciated. You must have overlooked Henry Field's Norseman cabbage when you say Jersey Wakefield is the best. I agree with you that it is good and I always have some in my garden. I would like to try out some Royal Purple raspberries. Can you furnish me some, or where can I get them? Our honey crop was best in years. My thirty swarms kept me going this summer.

Nebraska.

F. B. Reeve.

I have given the Norseman cabbage a four-year trial. It has not been as satisfactory as the Early Jersey Wakefield. I have no plants, bushes, vines or trees for sale. Note reply to T. M. Potter as to where you can get Royal Purple raspberry plants.

Being a constant reader of your articles, would like to ask when is the proper time to graft apple trees and how soon after planting them can same be done? When is the best time for budding? After setting a bud, must same be wrapped or tied up? What is meant by long cane system of pruning grapes? Is it necessary to dig up tulips and hyacinths and such hardy bulbs after they are done blooming or can they be left in the ground undisturbed? Please answer in next issue of American Poultry Journal.

Iowa.

Henry North.

The proper time to place grafts in an apple tree is just before or at the time



INCUBATOR CELLAR AND NURSERY BROODER HOUSE AT NIAGARA
POULTRY FARM, RAMSOMVILLE, N. Y.

This structure was burned in May, 1916, but is being rebuilt. It is 48x170 feet in size, so the incubator cellar is one of the largest in the world. Curtiss Brothers, the energetic proprietors of this well known poultry farm, are planning to increase their tremendous business, and have purchased new incubator equipment from the Newtown Giant Incubator Corporation, Harrisonburg, Va. The first installation will consist of five Newtown Giants, each with a capacity of 20,400 eggs, or a total of 102,000 eggs.

the buds are swelling in the spring. In fact I have the best results by waiting until the buds are about ready to unfold. The scions must be dormant. As a rule it is best to top-work a young tree the second spring from planting. If the tree is older it makes no difference. Any unsatisfactory apple tree should be top-worked to some worthy variety, as the scions will bear fruit the second year after being placed if the tree is of bearing age.

The best time for budding apples and most fruit trees is in July and August in the Central West. Budding should be done when the bark will peel easily. Yes, the bud, or rather the wound made by inserting the bud, must be wrapped with wax cloth or raffia, in order to secure the "setting" or "taking" of the bud. At the end of the tenth to fourteenth day after putting in the bud, cut the wrapping away, so growth of body of limb will not be interfered with. Long cane system of pruning of grapes means that the fruiting canes are left about three to four feet long. Spur pruning means that the laterals are pruned to two buds each. For Iowa, the long cane pruning is the best system so far put forth.

Tulips do better when replanted about every three to four years. Hyacinths do not need this treatment. All these bulbs can be left in the ground permanently and do well.

* * *

I notice in the article in your department of the September issue of The American Poultry Journal that you mention the Royal Purple raspberry as being most satisfactory of all raspberries in your locality. As I have never seen this variety advertised, am writing to ask you to kindly furnish me with the address of the grower or nurseryman that sells them. Our best berry here seems to be The Cardinal, as it stands out extremes of wet and drouth better than the Cuthbert or any of the other standards. Is the St. Regis a good bearer in any locality that you have ever heard of? I have sent for a few of The Oneida Ever-bearing variety, that is sold by the Rhinelander Nursery Co., that makes the claim of great superiority over the St. Regis. What varieties of ever-bearing strawberries are equal in size to the Superb that you have seen growing yourself? Progressive seems to me to be entirely too small to bring good prices.

Kansas.

Otto Greef.

The St. Regis with me is a very poor yielder and altogether unsatisfactory. I have many like reports in this variety. Then again some growers find them all they desire.

The Progressive seems to be the most satisfactory ever-bearer in the Mid-west. On my ground the Superb is a very shy bearer.

* * *

I have just bought a place close to the city with a lot 100x300 ft., meaning to raise all my garden truck another year and keep two dozen hens. There are a couple of fruit trees on it now, but they are practically worthless, as they are old and rotten. Now, I want to set out about half a dozen fruit trees and would like to know what I ought to plant so as to have two apples, one pear, one peach, one quince, one cherry. Also will have a few grapes, strawberries and other berries. Understand that all I want is just enough for myself, as I work in the city as a draftsman. Have had quite a little experience with poultry, but know absolutely nothing of fruit. Can you tell me what varieties are best to plant? I want a red apple to keep for winter but do not know the



QUEEN KATHERINE III

Champion Barred Rock Male

at Boston, 1916. CHAMPIONS at Madison Square Garden and Boston in both varieties, is our record.

S.C. Brown Leghorns

undisputed CHAMPIONS at all shows wherever they have competed.

Our flock of chicks this year is superior to the best of former seasons and we can furnish you winners or breeders at prices that are right. Write to the *Home of the Champions*.

Grove Hill Poultry Yards
Box 555, Waltham, Mass.

Pabst S. C. Wh. Leghorns Stock Farm

Harlo J. Fiske, Mgr.

Oconomowoc,
Wisconsin

DO NOT send your orders for show birds to the East this year. Give us a trial and place your order early. We have the best lot of show cocks, hens, cockerels and pullets that I have ever seen and we guarantee them to win at any show in the world. A few eight weeks old pullets, from trap-nested, high-record birds are now for sale.

We are at it again and have hundreds to sell like them. We won at the great Wisconsin State Fair. On Single Comb White Leghorns won, first and second cock; second and third hen; first, third, fourth and fifth cockerel; first, second, third and fourth pullet; first pen. On Single Comb Reds won, 1st, 2nd, 4th cock; 2nd, 3rd and 4th hen; 4th, 5th cockerel; 1st pen. I won First cockerel, Leghorn, at Illinois State Fair on one entry of Cockerels.

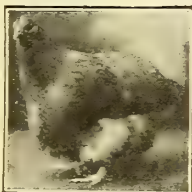
Write for catalog and prices.

Flossmoor Columbian Wyandottes

winners in strong competition at Illinois State Fair, Springfield, September, 1916.
100 fine cockerels for sale. If you want winners or good breeders, write me.

J. W. GARVEY

THAYER, ILL.



"Golden Rod"

BUFF ORPINGTONS

win at Illinois State Fair, 1916, 1st and 3rd pen; 1st and 2d cock; 1st hen; 2d pullet; 4th cockerel. They also hold the champion record at the National Egg Laying Contest. Oldest and best strain of Orpingtons in America. Stock for sale. Eggs for hatching. Satisfaction guaranteed.

R. M. SEWARD

LEWISTOWN, ILLINOIS

BUFF ROCKS

C. R. BAKER

Box A

ABILENE, KANSAS

CAMPINES

SILVER

GOLDEN

First Prize winners at Madison Square Garden, N. Y., World's Fair, San Francisco and leading shows for ten years. Bred right, are right. Fine lot of stock.

Barrett's Black Langshans and Barred Plymouth Rocks

At the Indiana State Fair we won 1st cockerel and 1st pullet in the Langshan class. These were from my grand champion cock at Indianapolis last January. Beautiful big cockerels for sale. Write me for prices.
BERNICE H. BARRETT Lock Box 128 FORTVILLE, INDIANA

PILLING CAPON TOOLS

Caponize and double the weight and the price of your cockerels. Easily done. Complete outfit—full instructions—prepaid. \$2.50

G. P. PILLING & SON CO.
Philadelphia, Pa.



THE LORD FARMS'

White Leghorn COCKERELS

for Producing Layers

"Like begets like,"—to improve the laying qualities of your stock you must breed from dependable layers. The old way was to simply pick out the good looking birds for future breeders. You are just as apt to pick out males bred from very poor layers as any other kind under that system. Today you can buy pedigreed bred cockerels from the highest layers on our plant from us.

There is absolutely no guess work about our stock. "We know." Our cockerels this year are bred from ancestry with records of 200 to 288 eggs.

Our Strain of Leghorns is Pure American Bred

Scores of our cockerels are fit for the show room, and all have nice white plumage, good yellow legs, medium size combs, and are otherwise "Standard bred," but best of all they are bred from big producers of good sized white eggs.

Our records are honestly made, as we trap-nest every day in the year, and our farm and methods are always open for public inspection. We own the pen of Leghorns that won third at the Storrs Egg Laying Contest last year, with an average laying record of over 196 eggs. The majority of the birds in this pen beat 200 eggs, and they were mated to a cockerel with a dam's record of 248 eggs, and his granddam's record was 288 eggs.

Sons of our highest producers will cost you \$5.00 to \$15.00 each. A few dollars invested in this kind of stock will return you hundreds in the future. By breeding from our cockerels for a few seasons you will stamp their laying qualities right on your strain. One season's breeding will show you the benefit of this method, and now is the time to buy, as we have a grand selection.

THE LORD FARMS

Box 240-M Methuen, Massachusetts

varieties that are best or where I can be sure of getting from a reliable concern, as I mean to pay a good price for the trees and shall not be niggardly about that. But I do not want to find when they come into bearing that I was stung some five or six years ago.
Ed. E. Claussen.

Asking me to name the one best apple tree for planting in Pennsylvania or anywhere else is drawing it down pretty fine. I will advise my correspondent to plant one Stayman Winesap and one Delicious apple tree. Early Elberta would be my choice were I to plant but one peach tree. Would set the one cherry of Montmorency. I do not know what pear or quince to recommend for planting in this man's yard.

There are a number of thoroly reliable nurseries in easy reach of my correspondent's home.

See to it that the young fruit trees are protected on the southwest by a board or some other material, in order that they will not sun scald this winter.

* * *

I wish to ask your advice in connection with the planting of a fifteen to twenty-acre fruit and poultry acreage to be located north of Des Moines. I am going into the business not entirely for the pleasure but for the commercial gain. I want to plant apples, cherries, currants, gooseberries, grapes and perhaps blackberries and raspberries. I might plant other fruits, such as plums or pears, if you thought advisable. I would like to know what you think is best to plant and what percent of each to plant. I would like to have apples for the early market and right thru to the winter market. What distance apart is best to plant the trees, bushes and vines? When is the best time to plant? I had planned to go on this acreage in February or March. Is it best to make the holes for fruit trees with dynamite? What spraying should trees get the first year? What age trees are best to plant? Same with bushes. When should trees be first pruned and should the bud blossoms be nipped the first two years or let fruit. I spent about ten years on a fruit and truck farm in Michigan, but had nothing to do with the trees except at fruit picking time so I have no technical knowledge of the above things from actual experience except as picked up from observation. How about strawberries for home use?

Iowa. Thos. L. Hosmer.

I strongly advise Mr. Hosmer to make his planting of apple trees largely of winter varieties. While a small part of the orchard could be profitably planted to early kinds it would not be well, in my judgment, to give much room to these sorts. Above all I would not plant any of the summer kinds. I would confine the planting of the earlies to the early summer varieties, using Henry Clay and Yellow Transparent and Live-land raspberry. These come extremely early. Plant only enough to supply your local market.

For winter varieties I would advise Delicious, King David, Grimes Golden and Black Ben. Delicious is a one best apple and will always be in best demand at high prices. King David is a glori-fied Jonath. n, beautiful, fine quality and the tree wonderfully productive. Grimes Golden is a jewel, always in demand. Be sure to get the Grimes Golden double worked on Delicious. Grimes Golden on its own roots is badly affected with crown rot, but when double worked on Delicious is free from this disease. Black Ben is the "barrel filler." Bears annual crops of great big beautiful ap-



Grow your own Vegetables
Cut down living expenses. Easy to save time, labor, and money by using
Planet Jr Garden Tools

This No. 16 Planet Jr will do all the cultivation in your garden in the easiest, quickest and best way. Light but strong. Can be used by man, woman or boy.

New 72-page catalog free. Write
S. L. Allen & Co.
Box 1107T Philadelphia

White Leghorn BABY CHICKS

FOR 1917

Now is the time to get your order placed for January, February, March or April chicks. Already we have thousands booked for early deliveries. No orders too large or small to receive our prompt and careful attention. We are the largest breeders of W. Leghorns in the Eastern States, and we believe we have more satisfied customers than any other breeder in America.

Don't forget that we are breeders of W. Leghorns.—we are not simply running a hatchery. Our business receives our own personal attention every day in the year. Last year we sold over 160,000 baby chicks, and this year we have made plans to hatch over 200,000.

The coming season we expect to put out the finest Leghorn chicks we ever hatched. The majority of our pens this season will be headed by males bred from dams with records of over 200 eggs, yet our prices are going to remain practically the same as last season.

25 to 49 chicks.....	17c
50 to 99 chicks.....	16c
100 to 499 chicks.....	15c
500 to 999 chicks.....	14½c
1000 or more chicks.....	14c

Our stock has always been free from White Diarrhoea, so our chicks have always been easy to raise. We have hundreds and hundreds of customers who do not lose more than 5, 6 or 7% of the chicks we ship them.

Write Today for Our 104-Page Catalog

It contains a lot of valuable information about W. Leghorns and how to be successful in handling the same. It has been the means of making hundreds of successful poultry men and women. We give you this book free, but ask you to send us 4c in stamps to pay for mailing the same.

THE LORD FARMS

Box 240-M Methuen, Massachusetts

Comfort Indoor Closet

Odorless Sanitary Germ-Proof

Every home without sewerage needs one. Most convenient, meritorious home necessity in a century. A boon to sick people. Can be placed anywhere in house.

Makes Outdoor Privy Unnecessary

Put a warm Comfort Toilet in your home, a guarantee of healthy, sanitary conditions. Germ-life killed by chemicals in toilet. Emptied once a month—no trouble. Needs no other attention. Boards of Health endorse it. Write now for literature, prices, etc. Agents Wanted—Exclusive territory.
COMFORT CHEMICAL CLOSET CO., 531 Factory Bldg. TOLEDO, OHIO



SENT ON 30 DAYS
FREE Trial



The Extra Eggs
will soon pay for one of these
Automatic

**Self-Heating
Poultry
Fountains
and Heaters**

Keeps water at the right temperature day and night in the coldest weather and requires less than a quart of oil a week. Made of Galvanized Steel. A long felt want supplied. Every Hen-House needs one. Price of 1 Heater and 2 gallon Automatic Fountain complete \$1.25. Write for Circular G and testimonials. Agents wanted.
C. A. S. FORGE WORKS, SARANAC, MICHIGAN

ples. These are not the equal in quality to the others named above, but sell readily at a good price.

Plant early apple trees twenty-five feet apart; winter varieties thirty feet apart. I would plant very lightly of plums. There is, as a rule, no money in this fruit. Mammoth Gold, Omaha and America can be safely planted near Des Moines. Would advise that you plant only enough pear trees to supply your home demand, that is, the demands of your own family. Pear growing in Iowa, owing to the blight, is a dangerous business. I have the Lincoln pear on my place and it seldom blights.

I think you will find it profitable to plant largely of Early Richmond and Montmorency cherry. The soil around Des Moines is especially adapted to the raising of cherries and this fruit is always in demand at good prices. Yes, plant largely of Red Cross and Diploma currants and Oregon Champion gooseberries. There is big money in these fruits. When one does get a crop of raspberries they bring a big price, but it is an uncertain crop in this state on the whole.

It is not necessary to make the holes for the trees by using dynamite, unless your soil is underlaid with hardpan.

Plant only well grown two-year-old trees. Be sure to do this. The trees should be pruned when set by equalizing the top and root. Then leave them alone except to head the growth properly by rubbing off all buds which would make undesirable branches or limbs. Do this each year and there will be little need of severe pruning. When the tree gets ready to fruit, let it do so.

For home use plant Dunlap, Haviland and Sample strawberries.

* * *

Your very interesting department on Horticulture in the American Poultry Journal prompts me to write you about two plots of land 60x100 ft., facing southwest, which I wish to put in fruit. One plot directly on seventh street has nothing growing on it and the other is used for young chickens.

The peach is the principal fruit tree grown here. Very few fancy apples so far as I know are grown in this vicinity. I would like as early maturing varieties as possible. What about Grimes' Golden, Delicious and McIntosh apples? Stark's Early Elberta, J. H. Hale, June, and Elberta peach, Mammoth Gold plum, Lincoln of Illinois and Bartlett dwarf pears and Montmorency cherries.

I would like to raise some garden vegetables in connection with the fruit trees on the seventh street end. Present garden is 30x100. In the rear of house are two plots about 30x80 growing red and black raspberries, blackberries and six Downing gooseberries, ten each Diploma and Red Cross currants, five Elberta, one Niagara, one Crawford early, one Crawford late and one Champion peach purchased of C. A. Green's nursery at Rochester.

There is a thrifty pear tree that has never so far as I can learn borne any fruit and one natural apple tree, fruit of which is pucky and worthless. Can they be budded or grafted and if so where can buds or grafts from good fruits be secured?

Have never raised any kind of fruit until I came here two years ago and know absolutely nothing about trimming or spraying, but do know they must be cultivated. Have two hundred one year old strawberries, but owing (I suppose) to the cold spring had but about three quarts of fruit on them. Am broadcasting droppings from 130 chickens and forty hens on the front lot.



FREE

New Poultry & Field Fence Book. 150 Styles. 13¢ Per Rod Up.

Direct From Factory Prices—Freight Paid.

HEAVY DOUBLE GALVANIZED WIRE. Outlets. Chicken netting 5 to 1—costs less. Get Free Book and sample to test. Address Dept. 3.

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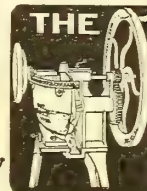
Get "The Golden Egg" and Your Hens Will Lay an Egg a Day

For only one cent you can get this wonderful poultry money-maker. Your hens will lay more eggs—larger eggs. Lazy hens will start laying. You can get fertile eggs. You can get eggs for early setting. Get plenty of eggs when they sell at highest prices.

Invest a Cent and Double Your Egg Yield

Get as many eggs in winter as in summer. It's all a question of feed. The Humphrey way makes chickens pay. You can cut your feed bill in half and at the same time get twice as many eggs. Let me tell you how. You can force your hens to lay as many eggs this winter as in the summer time by using a Humphrey Green Bone Cutter. Write for free copy of "The Golden Egg."

Tell me how many hens you have and get some money-making facts from me by return mail. Send postal today.



THE HUMPHREY GREEN BONE and VEGETABLE CUTTER

will save half your feed bills and double egg yield. Guaranteed to cut more bone, in less time, with less labor, than any other. Send for Special Trial Offer and handsome catalogue.

HUMPHREY, St. Factory, Joliet, Ill.

HUMPHREY
White Street Factory
Joliet, Illinois

Big Winter Eggs Out of Clover. How? Ask Me.

New KEROSENE LIGHT BEATS ELECTRIC OR GASOLINE

10 Days FREE—Send No Money

We don't ask you to pay us a cent until you have used this wonderful modern white light in your own home ten days, then you may return it at our expense if not perfectly satisfied. You can't lose a cent. We want to prove to you that it makes an ordinary oil lamp look like a candle! beats electric, gasoline, or acetylene. Lights and is put out like old oil lamp. Tests by U. S. Government and 84 leading Universities show that it

Burns 50 Hours on One Gallon

common kerosene (coal oil), no odor, smoke or noise, simple, clean, won't explode. Three million people already enjoying this powerful, white, steady light, nearest to sunlight. **Won Gold Medal at Panama Exposition.** Greatest invention of the age. Guaranteed.

\$1000 Reward will be given to the person who shows us an oil lamp equal to the new Aladdin in every way (details of offer given in our circular). We want one user in each locality to whom we can refer custom—**Yours FREE**. To that person we have a special introductory offer to make, under which one lamp is given free. Write quick for our 10-Day Absolutely Free Trial Proposition and learn how to get one free.

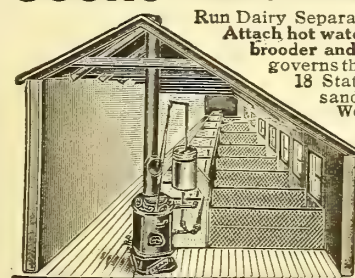
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Largest Kerosene (Coal Oil) Mantle Lamp House in the World

Men With Rigs Make \$100 to \$300 Per Mo.

Our trial delivery plan makes it easy. No previous experience necessary. Practically every farm home and small town home will buy after trying. One farmer who had never sold anything in his life before writes: "I sold 51 the first seven days." Christensen, Wis., says: "Have never seen an article that sells so easily." Norrine, Iowa, says: "32 per cent of homes visited bought." Phillips, Ohio, says: "Every customer becomes a friend and booster." Kemmerling, Minn., says: "No factory talk necessary. Sell it myself." Thousands who are coining money endorse the Aladdin just as strongly. **NO MONEY REQUIRED.** We furnish stock to reliable men to get started. Ask for our distributor's plan, and learn how to secure an appointment and make big money in unoccupied territory. State occupation, whether you have rig or auto; whether can work spare time or steady; when can start; townships most convenient for you to work.

Ripley's No. 20A Combination Cooker and Heater



will cook 1 to 3 barrels feed at a time, or heat water in tanks 300 ft. from cooker.

Run Dairy Separators, Sterilize Bottles, Cans, etc.

Attach hot water pipes to fire box and it will heat brooder and hog houses.

Automatic regulator governs the heat. Used and recommended by

18 State Experiment Stations and thousands of Noted Breeders and Farmers.

We manufacture the Largest Line of Cookers

in the U. S. Prices \$4.50 to \$70. Also White-

washers, Sprayers, Fireless Boilers, Egg and

Day Old Chick Shipping Boxes, Carts, Cast

Iron Heaters and Metal Hovers for heating

Brooders, Greenhouses, etc. Write for Catalogue,

showing Letters from hundreds of pleased customers.

A Ripley Cooker will save you 35c on every \$1.00 worth of feed you feed your stock and poultry.

RIPPLEY MFG. CO.

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Grafton, Ill., U. S. A.

STANDARD COLONY BROODER

Broods
100 to 1,000
Chicks

Price
Only **\$16⁰⁰**

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the West on
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Read What Bill User Says

Dear Jim:—

Sure I'll be glad to tell you what I can about brooders. You are dead right—if you expect to stay in the chicken business you've got to *raise* your chicks after you hatch them—and to do that you need the best brooder that money can buy. That is the Standard Colony Brooder, made by the Buckeye people, and sold on 30 days' approval.

When it comes to brooders, I have seen them all, but this "Standard" is the leader of the bunch. It will take care of from 100 to 1000 chicks for less than six cents a day, and do it better and with less work and trouble than any I have ever seen. It is a self-feeding, self-regulating coal burner, and all you have to do is put coal in it once every 24 hours. And you ought to see the little chicks thrive and grow—better than they could under any old hen that ever lived.

It's so all-fired good they tell you to write your own guarantee—and that's going some.

Take it from me, Jim, this brooder proposition is just like the incubator. Get the best one there is—it is the cheapest in the long run—and the best of them all is the "Standard."

Yours for more profit,

BILL USER

A Guarantee Without an "IF"

Just as "Bill" says, when you buy a "Standard" brooder, you can write your own money-back guarantee.

Beware of Imitations! So far we have caught five competitors trying to imitate the "Standard." Make sure by looking for our name.

AGENTS WANTED! Some desirable Territory is still open. Write at once for our offer.

The Buckeye Incubator Co.

114 Euclid Avenue

Springfield, Ohio

Eggs are bringing for one day old, strictly fresh, 55 cents per doz. Will be 70 or 80 cents by December first. Wheat is 2.65 and corn 2.20 per hundred.

Appreciating any help you can give me might help me to give my family and myself one of God's greatest gifts to mankind, as well as, I hope, some financial gain.

New Jersey.

J. W. Knox Clark.

I like that letter. It has the human interest spirit ringing true, and love of wife and children, the home-making desire of a father.

Mr. Clark certainly has named the very best varieties of peaches and apples for his section and he should, in my judgment, confine his plantings to those varieties exclusively. The apple and pear trees which do not bear fruit can easily be top-worked to desirable fruit. Mr. Clark will find it not only profitable but a lot of fun to learn how to put in scions and buds. He can no doubt secure scions from some grower near his place. If not, he should send to some reliable nursery firm for them. The scions should be put in, in the spring just as the buds on the old trees are starting to unfold. I venture the prediction that in due time Mr. Clark will have one of the best intensive fruit "farms" in all New Jersey.

* * *

would like to take advantage of your department and ask a few questions and will thank you for your interest. I have a young peach orchard, about 275 trees. This is their fourth summer. They were purchased from a reliable nursery thru an honest agent (honest is right). I had them planted by experienced fruit growers. The first year everything was new to me and they did not get cultivation, but the following years they were cultivated and pruned. This spring they were pruned carefully and plowed both ways and then harrowed frequently up until August first. The borers were dug out and the trunks painted with asphaltum, and in passing, this asphaltum treatment for borers looks good to me.

The trees made a splendid growth, but recently have begun to turn yellow, say about a month ago, a few of them earlier. It is not the "yellows," at least as generally understood. Last Sunday I had an experienced fruitman come down and go over the trees. We dug down to the roots and found as follows:

Where the tree had shown sickness all thru the foliage, the bark on the trunk was dead, all around between the bud and the roots. Where the foliage showed sickness on half of the tree the bark was partly dead between the bud and the roots.

We dug up a couple of trees and found that the bark above the bud was green and apparently healthy, that the roots were apparently in healthy condition but that the bark on the trunk between the bud and the roots was dead.

About half the orchard, perhaps more, is affected to varying degrees in this manner. The man I had come to look at them thought he would try cultivation rather than pull them out, but in my opinion an evident disease like this is not curable or at least not worth while.

What I would like to know is what is the matter with these trees and what might be the probable cause and the prevention in future, if any.

We had suspicions that the fruit was budded on inferior, or diseased stock, or perhaps not on stock suitable to this locality.

This locality is one of the highest points of Allegheny Co., Pa. The soil is good, perhaps might be called rich and the air drainage good; a very favorable spot for a peach orchard. The varieties planted were mostly Elberta, with some Champions, Early and Late Crawford. The stock came to me from an Ohio nursery. Whether the stock was their own budded stock or bought in from some outside nursery I do not know. Will appreciate your advice on the matter, particularly as to yanking them out and planting new trees.

Pennsylvania.

Albert Hartrick.

I am confident on the evidence that your peach trees were originally budded on stock which is unfit for planting in your locality. The fact that the trees are affected as they are shows that the parent stock was of no value as far as hardiness and vigor is concerned. In 1882-3, thousands of peach trees, budded in a southern nursery, were scattered

thruout the peach growing district of the north, and all were affected as are your trees.* I strongly advise you to dig out every one of these trees which are ailing. I think you will make a big mistake if you do not do so. Don't stop to find out the cause of the ailment, but yank 'em out at once!

Being such an unusual case, I sent a copy of Mr. Hartrick's letter to P. C. Stark, of Stark Bros. N. & O. Co., Louisiana, Mo., and asked his advice. Mr. Stark replied as follows:

We have carefully read the copy of letter from Mr. Hartrick. I do not remember of ever seeing a similar condition on peach trees to that which he describes. However, I have seen young trees, especially during wet seasons, blister on the body and form a dead portion or sometimes a ring entirely around the tree. I do not know that science has ever discovered the exact cause of this trouble. However, it only shows up on a portion of the tree, and I do not think there would be any cause for alarm of its inoculating the ground and attacking the trees that were planted to replace the dead ones. My suggestion would be that you have him cut out all trees that are dead or that he is sure are going to die. The others could have the affected portion trimmed back to good live wood and probably the new bark would grow over. I do not think your correspondent need worry about any danger of infection on trees that are replanted in this location. Hope this gives you some suggestions regarding answering this letter.

* * *

In answer to P. P. Scott, Missouri: Water core in apples is caused by the accumulation of excess sap in the tissues surrounding the fibro-vascular bundles, or the main sap channels. In some varieties of apples, where the water core is not excessive, the sap is finally distributed to the surrounding tissues. The cause of the apple being water cored in this way is not yet well understood. A few years ago I was the guest of one of the largest apple exporters in New York City. He showed me several thousand barrels of Western Jonathan apples which were affected with water core so badly that he could not ship them to Europe.

* * *

I have four letters from men who will plant apple orchards next spring asking if it pays to use dynamite in the planting. In answer I quote a letter from B. C. Anton to the *Fruit Grower*:

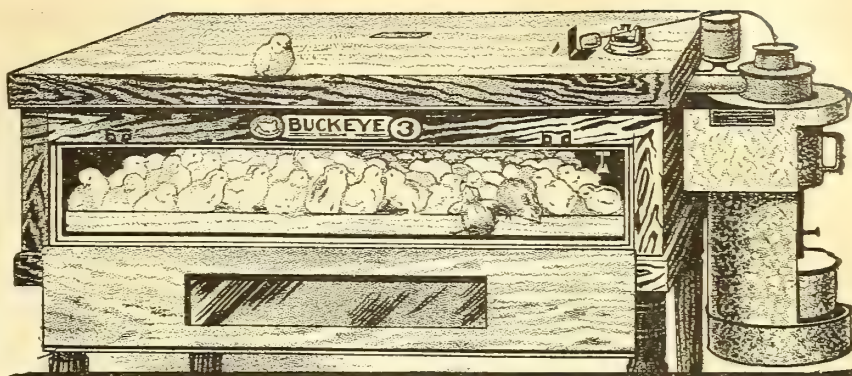
So much has been said and written on the use of dynamite, in tree planting and cultivation that many appear to be confused in their ideas, and some are liable to injure their soil if they follow advice blindly. One of our Missouri readers, Mr. B. C. Auten, gives the following advice which will be safe to follow:

The best way to decide the matter is by actual test. Put in a trial shot and note the result. After the charge has been exploded take a spade and dig a narrow trench clear across the soil affected, in a straight line across the center of the hole made by the shot. Dig out on both sides until you come to the ground which has not been disturbed. Make the trench deep enough to ascertain the condition of the soil as far down as the influence of the explosion can be seen.

If the effect of the blast tends to improve the condition of the soil, it can be easily seen, but if it only packs it and makes a tight, jug-like hole in the ground it is harmful. In some cases the soil will be so compressed that it is almost impossible to dig into it with a spade. In fact I have tried some places where the soil appeared almost like rubber after a shot for some distance on all sides and the center was in the form of a jug and fully as water-tight. If a tree should be set in such a place the result would be bad.

* * *

In answer to F. W. Ainsworth, Georgia: I cannot tell you what would be the best cover crop for your orchard. Consult the horticultural authorities at your state college.



BUCKEYE

The Best Incubator Made

*"Built up to a standard
--not down to a price"*

You'll find it in the plants of the biggest breeders in the country---and you'll find it in the piano box coops of beginners just started.

Anybody can hatch chickens with the Buckeye. It operates automatically and can't go wrong. You get a chick from every hatchable egg.

That's why poultrymen *think* "Buckeye" when they *say* "incubator." That is why all the Agricultural Colleges and Experiment Stations endorse and recommend the Buckeye.

Here's What We Guarantee

The Buckeye incubator is *guaranteed* to hatch more chicks and better chicks than any other incubator regardless of price, or we take it back.

The fame of this guarantee has traveled from sea to sea. Over half a million "Buckeyes" are in use by big and little breeders and over 2000 leading dealers sell it.

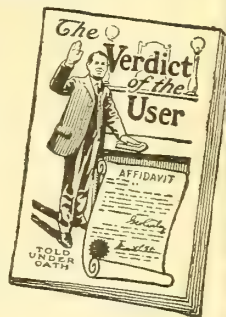
Agents Wanted

Some very
choice territory
open.
Write quick

7 Sizes--60 to 600 Eggs

What they say from experience is to be found in our book--"The Verdict of the User"---backed by affidavit.

A copy of this book and our catalog can be had free from our dealer, or drop us a postal to send you our "Incubator" books.



The Buckeye Incubator Co.

111 Euclid Avenue

Springfield, Ohio

They win again
As in the past, the *Morris*
Strain of

White Orpingtons

continue to more than hold their own,
as shown by their recent win at the late

New York State Fair

IN A QUALITY CLASS WE WON

1st Cock	2d Hen
1st Cockerel	2d Pullet
1st Hen	2d Pen
5th Cockerel, Best Display	

This is the same strain that won all five firsts at the last Madison Square Garden show. If you want birds to win, write us.

The Morris Poultry Farm
R. D. No. 1 Lebanon, Ohio

Buff Plymouth Rocks S. C. White Leghorns

Eggs half price balance of the season
FRANK C. COLE, VAN WERT, OHIO

Regal White Wyandottes and White Leghorns

1st Wyandotte cockerel at Illinois State Show, 1916.
Young Australian and Danish trap nest heavy layers.
Baby chicks and hatching eggs in season. Book your
order now. Correspondence solicited.

DOTTE-HORN POULTRY FARM
DENTON, Caroline Co., MARYLAND

GEO. P. SANFORD & SONS, Props., formerly
State Road, Wheaton, Ill.

WHITECREST FARM

S. C. Wh. Leghorns White Wyandottes

Winners of best display twelve times at Cleveland.
Stock for sale. Circular free.

C. W. SIXT WEST PARK, OHIO

White Orpingtons

Our strain is noted for its heavy laying and
prize winning qualities. Write for prices
on exhibition and breeding birds. We have
the quality you want.

CAIRNGORM FARM NOTTINGHAM, OHIO

BUTTERCUPS

Big Sale of Fine Stock. Both young and old.
The greatest layers of large white eggs. Birds of
wonderful beauty. A limited supply of other
stock also for sale. Mention Am. Poultry Journal.

Tiffin Poultry Farms and Hatchery
Department A, Tiffin, Ohio

WHITE PLYM. ROCKS A few extra good exhibi-
tion birds for sale for fall
and winter shows. Also fine utility females and
males, all bred from good layers. Females, \$2 to \$5
each; Males \$3 to \$10 each. Write **YOUR** wants.
Walter P. Nelson R. 21 Bayonne, N. J.

Ward's Champion Buff Plym. Rocks

I still have some choice yearling cocks
and some yearling hens.

THE BUFF ROCK MAN R. W. WARD NORMAL, ILL.

Questions and Answers

Conducted by
Prince F. Woods, M. D.

Off-Color in Black Minorcas.

Q. Five years ago I bought a pair of S. C. Black Minorcas (a cockerel and pullet) from a reliable breeder. The birds were good color then. When the pullet got to be three years old she moulted and grew a set of white primaries in each wing and the following year they came in white again.

I have been breeding from this pair in this way: The first year bred the original pair; second year bred father to his pullets and mother to her son and the third and fourth and fifth year proceeded the same.

Now, I find this year that some of my young stock have gray in the wings and some have a feather or two in the back with gray tips and a few have two or three tail feathers tipped with white.

I would like to know if this defect can be bred out all right, or if I will have to start all over again. I raised 100 chicks this year and about one-third of them show some off color.

Quincy, Ill.

G. D.

A. By careful selection you can breed out the defect. It is not necessary to make a new start. You probably did not give sufficient attention to strength of color in mating up your birds and undoubtedly did not cull closely. We would not have broken up the original pair mating the second or third season if it was giving good results, but would have given the cock, in addition to his first mate, some of his best and strongest colored pullets. In Black varieties it is not uncommon to have adult fowls moult in white feathers and it is a common thing to get white in the chick feathers of the young stock. There will always be a percentage of defective specimens and these should be culled out and not bred. If you will select your

breeding birds with care, and pay sufficient attention to health and vigor and to strength in color, you can improve the color of your strain considerably and reduce the percentage of off-colored chicks. If you are satisfied with the performance of your flock and with results in other respects, we would stick to the original stock and breed for greater strength in color by careful selection and mating. When one side of mating is weak in any point, try to offset it by strength in that section in the mate. Be sure to use only strong, healthy breeding birds. If you feel that you need "new blood" in your flock, write to the breeder from whom you made the first purchase and explain conditions to him. He may be able to furnish you with a good male or female that has the strength in color and other points that you need and closely enough related to your stock to give you good results.

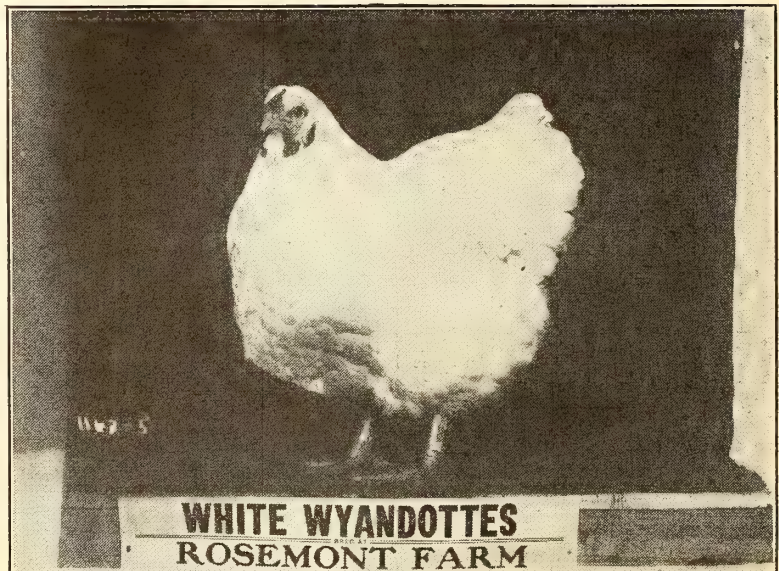
Dust Bath—Cold Water—Feed.

Q. (1) Where birds are housed at all times, should there be a dust box? Is the sand on the floor with litter on top all that is need.d?

A. (1) While the fowls will get along very well dusting in the sand on floor, it is well to supply a dust bath containing loam. Don't let it get too dry and dusty. A slightly moist earth "bath" is best.

Q. (2) Must the water in winter be given cold and changed often, or can it be warmed without any serious effects?

A. (2) A good many poultry keepers use warm water or some water-warming device. We prefer our own drinking water cold or cool and assume that our fowls feel the same way about it. We give the drinking water cold both sum-



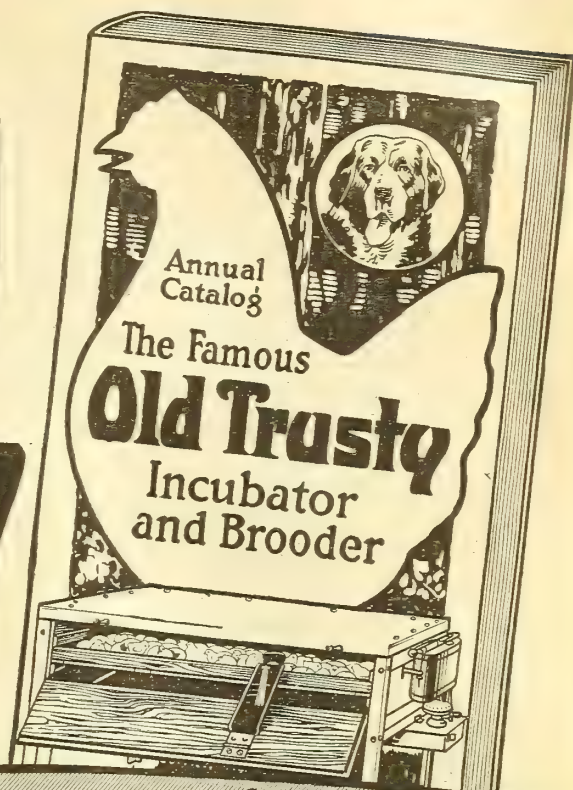
WHITE WYANDOTTES
ROSEMONT FARM

A pullet in first pen at Cleveland, Ohio, 1916. Owned by Rosemount Farm, Franklin, Pa.

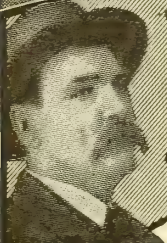
Ready for 1917



H. H. Johnson
"The Incubator Man"



Mail the Coupon Today



M. M. Johnson

A New Book— and a 1917 Model Old Trusty

YES, reader, we are ready with our new book for 1917 and we want you to send in your name at once for a copy free. It's a new book all the way through—in a new style—new shape—new cover—and filled with new Johnson suggestions on making money with poultry. Send in your name today. We now have close to three-quarters of a million customers. To our old customers who may read this ad we extend greeting. We will be glad to hear from you. Some have written us who have been using Old Trusty Incubators for ten to twelve years or more and are still getting big hatches every year. This is to be expected. Old Trusty is built for long-life work and good work year in and year out.

New Conveniences for 1917

Note the illustration of Old Trusty on the cover of our catalog. The lamp now sets on a big oil drawer. This drawer runs in under the case and holds enough oil for the entire hatch. Saves filling the lamp from time to time. Also note the handy thermometer holder on the door. The thermometer comes into view every time you open the door. These features are

work savers. They don't make the hatches any bigger but they do make them easier. Bigger hatches with Old Trusty would be impossible, for it already holds the world's record for biggest averages right now.

Old Trusty is always shipped safe arrival guaranteed and **freight paid by us**. Quick shipment from factory at Clay Center or warehouses at St. Joseph, Mo. and Seattle, Wash.

**The
M. M.
Johnson
Company,
Clay Center,
Nebraska**

Please send me the Old Trusty book FREE.

Get the Book—FREE

Learn more about these new features. Learn how Old Trusty owners get big **money-making hatches in coldest weather**—get the Johnson Poultry "know-how"—get the latest ideas on poultry raising. Yours very truly, H. H. JOHNSON.

The M. M. Johnson Co., Clay Center, Neb.

Name _____

Address _____

Laying Some



Oculum Does It

Oculum (ten drops on each pound of feed) increases egg yield 25% and up. Sold in gallons all over the land.

"My 800 fowls increased from 30 to 398 eggs a day after using Oculum 16 days. I buy it in gallons."

Geo. Sisco, Mountain View, N. J.

Booklet full of testimony free. Bottles 50 cents and \$1.00; Pints \$2.00; Quarts \$4.00; Gallons \$10.00. Trial (240 feeds) 10 cents. More eggs or money back. Dealers handle it.

OCULUM Box B SALEM, VA.

Pape's Single Comb Black Minorcas

just won A. P. A. Gold Medal for best cockerel at the South Bend Live Stock Exposition, also Championship Honors at the Tennessee State Fair.

Am offering massive, chesty cockerels that will improve any flock and that will develop into prize winning cock birds—exceptionally beautiful show birds that will win anywhere, selected breeders and layers at introductory prices. Pape's



Minorcas are acknowledged most marvelous producers of large, white eggs, most delicious to eat, most profitable to grow and most agreeable to tend in all climates.

Catalog and Assistance Free.

CHARLES G. PAPE

Licensed Judge and Specialist.
Box B-71 Fort Wayne, Ind.

S. C. Buff Orpingtons

100 Early Hatched Cockerels at \$3-\$5-\$10 each Fine Breeders and Show Stock. Prices upon request.

OLD FORGE POULTRY FARM, Spring Grove, Pa.

REGAL REDS

Single Combs Exclusively

We have 500 of the finest Reds we have ever seen and can certainly prove it when we come to the shows this winter, as we have in the past seasons. We can send you what you want and ship it on approval. Write me your wants. Will be pleased to tell you what we have.

GEO. H. SHOENHARD R. 6, Box 17 FREEPORT, ILLINOIS

S. C. WHITE LEGHORNS

TRAPNESTED

Cockerels from hens with egg record of 200 to 265 at a sacrifice. One of these cockerels will improve your stock next season. Orders for eggs and baby chicks booked now.

CARL J. JENSEN North Ave. WAUKEGAN, ILL.

WATCH Our December Ad

American Poultry Journal only. Sex Control Spok Ahne Langshans always make good.

HERB E. SHARP LAN SHAN FARMS
R. F. D. No. 3 Spokane, Washington

"RAINBOW" PARTRIDGE ROCKS

The Recognized Leaders

THE ROCKWOOD FARM, Box 1110, NORWALK, O.

mer and winter and change when necessary—always supply fresh water once a day and sometimes twice. When there is much freezing weather and there is clean snow on the ground, we supply snow in place of drinking water and the fowls seem to like it better than the water.

Q. (3) I feed Park and Pollard's feeds. Can these be used with safety, or is it better to mix one's own feed?

Govans, Md.

T. E. G.

A. (3) The commercial feeds you name have a good reputation and we sometimes use them. Most of the ready-mixed feeds are good if you obtain a fresh supply and do not buy old, stale stock that some dealer has carried in storage for too long a time. For the man with small flocks the ready-mixed feeds are usually very satisfactory. For large flocks we believe it is more economical to mix one's own feeds.

Fall and Early Winter Colds.

Q. What do you do for colds? I was putting 100 Leghorn pullets from colony house into laying house; out of 52 there were 22 with colds and 30 with clean noses. I shall separate them and keep the clean nosed ones by themselves. Whether they crowd or not they get colds. There is a lot in print, but I want to know what you do for colds.

Neighbor says: "Don't talk. I have been having a time with colds." Another neighbor has 300 fowl and they are chock full of colds and roup.

Maryland.

A. We very seldom have trouble with colds in young or old stock. We attribute this to the fact that we house all stock in open-front quarters and never breed from a bird that has been afflicted with colds. Also we do not encourage visitors to enter our houses or yards or to handle our birds. In a neighborhood where several flocks are "chock full of colds and roup" it would be a very easy matter to carry the infection from one plant to another.

To avoid fall colds, breed only from healthy, vigorous stock that has never been sick. House in open-front quarters. Do not leave young stock too late in colony coops in the fall. When housed, do not shut in too closely. See that the change from range conditions to winter housing is not too great a change. Supply an abundance of greens. Do not go from infected poultry quarters to the healthy fowls without exercising reasonable precautions to prevent carrying infection. Don't let visitors coming from infected plants handle your birds or enter your poultry yards and buildings. Don't forget that rats, mice, and wild birds may carry infection from one place to another. Don't crowd the flocks. Do not shut in closely at night. Do not permit close bunching on floors of coops on frosty nights.

When colds appear, isolate all sick birds. Clean up and disinfect. Dip heads of birds having colds or cleanse their mouths and nostrils with a solution of one teaspoonful of creolin, or

TEETH AND TONIC FOR HENS

PEARL GRIT the "Double Purpose Grit" keeps hens healthy and makes them lay. It grinds and prepares the food for digestion and supplies the necessary shell-making and egg-building elements. Write for free booklet.

THE OHIO MARBLE CO.
50 Cleveland St. Piqua, Ohio



Patented Sept. 1, 1914.

YOU Need Leg Bands

For Your Birds

just as much as you need to feed or house them. It is impossible to trap-nest without them, and if you raise one or a thousand birds you should have them banded, if for no other reason than to tell their age at a glance. For trap-nesting and exhibiting, the bands are made with large numbers easily read from a distance. Double numbers on a band from 1 to 100, single numbers on a band from 101 to 300, may be had on white, red, blue, pink, cerise, yellow and green celluloid. A 150 single numbers from 301 to 800 on white only. In order to tell the age of the bird, we can supply bands with the number "1915" and "1916" on the same seven colors of celluloid. Sizes to suit all breeds, also pigeons. Guaranteed to stand water and weather. Send for free sample and circular. Easy to use and worth using.

BOURNE MFG. CO.

231 Howard St. MELROSE, MASS

Hayward's

White

As Good
As the Best

as proven by their remarkable win at Boston Show, 1916, wherein with extra strong competition for which Boston is noted.

Hayward's White Plymouth Rocks
Won 1-2-3-4 pullet, 1-4-6 ckl, 2-4 pen, 5-6 hen, champion male and best display. High quality stock furnished at prices that are right and complete satisfaction guaranteed.

W. F. HAYWARD

Westboro,
Mass.

Plym.

Rocks

REDS Single Comb

You must look elsewhere for show birds. All we have is real pedigreed layers, with trap-nested records of 171 to 222. To get you acquainted will ship four hens and cockerel for \$17. Hens have record of 158, 160, 158, 140—last named is for 8 months. Or pen 4, for \$32, which includes cockerel and seven hens with following records: 193, 180, 178, 178, 174, 174, 171. In lots of 4, hens of trap-nested strain but not trap-nested, \$2.25 each. If we don't satisfy you, we don't want your money.

PINE RIDGE FARM

Miss L. C. Galbraith
Box 546 Southboro, Mass.

REDS

Pinecrest S. C. Reds

Trap-nested and bred for vigor and egg production. Raised on free range. Consistent high performers at Storr's Laying Contest. Males from our 1916 pens, and pedigreed cockerels will breed eggs into your flock. Send for circular and prices.

PINECREST ORCHARDS

GROTON, MASS.

Silver Laced Wyandottes

From blue ribbon winners at Cleveland, 1916.
Ewing & Romich Lock Box 393 Creston, Ohio

zenoleum, or similar saponified cresol preparation, in a quart of warm soft water. Follow this treatment up with the application of camphorated petrolatum to face, mouth and nostrils. Keep the birds in open-front quarters and see that they go on the roosts at night.

Costs and Profits.

Q. (1) What profit could be expected from cockerels of American or English varieties hatched in April or May and sold as market poultry in the fall? Would want to charge cost of eggs plus cost of incubation, together with feed, against these market birds. Have in mind Chicago markets for both feed and poultry.

A. (1) The answer to above question depends upon conditions affecting your chicken crop, your skill as a manager both as a grower and in selling your stock. The best way to answer the question is to try it and find out, keeping an accurate account. Paper figured costs and profits are alluring but are seldom satisfactory. If the cockerels are

caponized and properly grown and marketed you might realize a gross profit of 15 cents per pound above costs you suggest charging. From this you would have to deduct labor and overhead charges in order to figure actual net profit. Frequently, unless special attention and skillful management is applied to both the growing and marketing, the birds may not show any appreciable profit when all production costs are considered. Generally speaking, if you can show a net profit of from 25 cents to 50 cents per bird on cockerels at six months old you are doing pretty well.

Q. (2) Can the sexes of White Rocks, White Wyandottes and Rhode Island Reds be distinguished while the chicks are broiler size, say 8 to 10 weeks old? Would like to sell cockerels as broilers and keep the pullets.

A. (2) In the majority of cases, yes. Now and then there will be a few specimens that will fool an experienced grower.

Q. (3) Can Leghorn sexes be distinguished at this age?

A. (3) Yes.

Q. (4) Which should be the most profitable, 2-pound broilers at 10 weeks old or roasters as described in question 1?

A. (4) That depends largely on your local market and the demand. Most of the losses of chicks come before the broiler age. If the market for roasters is good, the cost of making roaster flesh after broiler age is proportionately less per pound than the cost of making broilers. Guesses and paper figures are unsatisfactory. The only way to satisfy yourself is to try it and find out.

Q. (5) About what would it cost to feed a chick during its first month? What would be the cost for 10 weeks?

A. (5) Approximately—first month, 8 cents; first ten weeks, 18 cents.

Q. (6) What would it cost to feed a cow a year? About what profit could one expect from one cow per year?

Houghton, Mich. A. M. W.

A. (6) Again the answer depends largely upon yourself, local conditions and the cow selected. We never have

World's Largest Incubator Order

Curtiss Brothers—"Niagara Poultry Farm"

Buy 102,000 Egg Capacity NEWTOWN GIANTS

These machines—five Double-Deck Newtown Giants with a capacity of 20,400 eggs each—will soon be installed at Niagara Poultry Farm, Ransomville, N. Y. We believe this to be the largest single order for incubators ever placed by an established, successful poultry farm.

Curtiss Brothers have had wide experience; *have been making poultry pay on a large scale for thirty years.* They have made such a success of their business that the conservative FARM JOURNAL published a special book describing their poultry farm and methods. In this book—"100,000 A Year From Poultry"—Niagara Poultry Farm is called "*the largest general poultry enterprise in the world,*" having been "*brought up to such a point of productiveness that its sales exceed \$100,000 a year.*"

When experienced, successful, business poultrymen like Curtiss Brothers select the

Newtown Giant Incubator

for their personal use after fully investigating the merits of all makes of incubators of the mammoth type, and place an initial order for 102,000 egg capacity, they clearly demonstrate their conviction that *the Newtown Giant "hatches the most chicks, the best chicks, with least labor and at lowest cost."* You will do well to be guided by the judgment of *men who know* when selecting your incubator.

For dependability, efficiency, convenience and economy, the marvelous Newtown Giant stands supreme among incubators. This broad statement is supported by the testimony of a vast number of prominent poultrymen in all parts of the world.

Learn about the Newtown Giant—how it is constructed—the wide range of sizes in which it is built—its exclusive time and labor-saving, results-insuring features—the astounding hatches regularly secured by Newtown users. You owe it to yourself to learn the facts and avoid expensive mistakes. Our catalog and booklets tell all these facts, plainly and truthfully. These helpful books are FREE for the asking. Write for them today.

THE NEWTOWN COLONY BROODER

Coal-burning, self-feeding, self-regulating.
Made in four sizes at \$15, \$20, \$25 and \$32.50 to accommodate any number up to 1200 chicks.

NEWTOWN GIANT INCUBATOR CORPN.

21 Warsaw St.

Harrisonburg, Va.

VICTORY



4th Cock, Boston, 1916

Do You Need Breeding or Show Ckrls. this Season?

Hundreds of youngsters now ready for delivery; also a few breeding females of exceptional worth that I must sell to make room for pullets.

YOU ARE JUDGE

I challenge any and all breeders to give you better values than you receive from me for I breed Leghorns as a hobby and for the personal satisfaction that I get from handling the best. I sell all but a very few of my season's production and sell with a view to my customer's satisfaction and future trade.

DO NOT place your entire order with me this season, but place a part and a part with any other breeder you may choose to select. Compare the **RESULTS** you obtain. Be your own judge as to where you will come in the future.

Willow Tree Values are backed against the world with utter confidence of your satisfaction and future orders.

BROCKTON FAIR

FIRST COCKEREL

In a hot class of 21 cockerels I won First—admittedly the coveted prize in any class. This bird surely deserved the honor. My pullet was Fourth in a class of 25 and pen Fourth in a class of eight pens.

SURELY

this win proves that my young stock is of the highest quality and that they are on a par if not a little better than my competitors.

REMEMBER!

birds you buy here are backed against all breeders. Once you purchase, you become a steady patron, because the value you receive compels you to return.

All birds shipped subject to your inspection for 48 hours. If not satisfactory ship them back and your money will be refunded without "red tape."

WRITE

NOW!

WILLOW TREE POULTRY FARM
Beverly Farms,
Mass.

H. P.
McKean, Jr.

H. P.
McKean, Jr.

kept cows for profit and don't know what is a reasonable return to expect. We are keeping cows to supply the home table with milk and cream and some butter—with skim-milk for cooking and for the poultry. Probably the milk costs us more than it would if we could buy it, but it is not possible for us to buy the milk we want when we want it and can't buy the quality we produce. The standard ration per day for 1,200 pound cow is 25 pounds of dry matter; which ordinarily consists of about 19 pounds of dry matter obtained from hay, fodder and silage and 6 pounds from grain. You can use local cost of such feeds in your location and figure cost of her food from that. We have pasture six months of the year for our two cows. We grow some hay and some corn fodder, tho not nearly as much as we need. The grain we buy. The grain for one cow averages to cost us about 15 cents a day. Six months of the year we have to feed hay and fodder and the cost per cow for such feed is about 20 cents a day. Pasturage in this section can be had at \$10 per cow for the season. The grade Guernsey we now have is reputed to "milk right around" and from appearances can be estimated to yield an average of 10 quarts of milk a day for 48 weeks. So in round numbers you can say that it costs us about \$100 a year to feed a cow and that she yields us about \$168 worth of milk, figuring it at five cents a quart. Labor costs us 23 cents an hour and it takes about an hour and a half each day for the man to take care of two cows. The manure we need for the land and in this section it is not easy to buy good manure. We can buy milk at 8 cents a quart, but the supply is irregular and the quality poor. We estimate that our home raised milk costs us about 7 cents a quart when all expenses are figured, and the quality is unequaled and the supply entirely satisfactory. Any cow man looking over these figures may smile, but we live in a section where hay and grain are high—now higher than ever before—and as we stated, we are not keeping cows for profit, but for the satisfaction of having milk made at home.

Whitewash for Spraying.

Q. Please give a good formula for whitewash to be put on with a spray pump.

Rochester, Mass. W. E.

A. Slake quick-lime with just sufficient water to make a thick paste. Add a pint of melted lard—or other grease—and a cupful of common table salt to each half bushel of lime while slaking. This lime paste can be stored in tubs or barrels until wanted and will keep well as long as it is kept moist and covered. Before using, add to this lime paste sufficient water to make it the consistency of thin cream. Strain thru burlap or a fine sieve before using in sprayer.

"Sulphur Flour."

Q. There is a "sulphur flour" much used as a stock tonic and for spraying.

Ward's Champion

Dark Cornish

(Exhibited as Ward & Chilver.) Offer birds of unusual quality for the Fall and Winter shows. Get our prices before purchasing elsewhere. Cornish Fashion Book ready—red stamp appreciated. JOHN W. WARD, Jr. Box 7 PENNINGTON, N. J.

YOU WILL RECALL

the remark made by one of the world's most successful men—here it is: "The most worthless chap I ever knew had the best collection of letters of recommendation that you ever laid eyes on. I myself gave him one to get rid of him."

You Are Not Asked

to judge our birds by what someone else says; we simply tell you our story and ask you to take our word for it. If you find we have lied to you, or if you are dissatisfied in any way, return the birds and your money will be returned promptly, without any red tape.

Not the Best in the World

We do not claim that, but we do give you just what you ask and pay for, and we are sincere in our belief that our birds are as good as the rest.

ALL OUR BIRDS

are trap-nested, with pedigreed records, ranging from 200 to 249 eggs. Prices from \$2 up. All we ask is a trial order, we know we can satisfy you. No order is too small and none too large. Copy of catalog free.

Barred, White and Buff Rocks, Reds, Wyandottes, Orpingtons and Leghorns.

SUNNYSIDE POULTRY FARM

R. C. Blodgett

Box 1002

Bristol, Vermont



YOU SEE THEM at the first glance. That is why

Spiller Leg Bands

are so popular. Made in all sizes and colors for fowls and pigeons, in double numbers. A two-cent stamp brings sample and catalog showing different styles. Fowl size, 3c each; \$2.50 per 100.

A. P. SPILLER Box 1 BEVERLY, MASS.

NOVEMBER CHICKS



for Southern Breeders and Broiler Trade. Live delivery guaranteed. Light Brahmas, Rocks, Wyandottes, Reds, Minorcas, Anconas, Leghorns from prize winning flocks 13c each. Discount on large orders. No order for fewer than 25. Broilers \$9 a 100. Pullets, two pounds each in size, \$12 a dozen. Early hatched cockerels \$2 each. CATALOG FREE. Stamps appreciated.

THE CHEVIOT CO. GAMBIER, OHIO

If You Want Birds that Win and Lay, Get NOVAK'S Single Comb

White Orpingtons

They again proved their class at the Wisconsin State Fair, winning 1st cockerel, hen and pullet in very strong competition. Have won 1st hen and pullet for two, and 1st cockerel for three successive years (besides many other prizes.) 1st prize cockerel, a high grade bird, for sale. Other show birds and utility stock for sale. Try us.

NOVAK POULTRY FARM

R. 1,

RACINE, WIS

\$5 TO \$10 A DAY

AGENTS—BIG HIT
5-Piece Aluminum Set
Cheaper than enamel ware. Guaranteed 20 years. Retail value \$5.00. You sell to housewives for only \$1.83. Sure sale wherever shown. Answer quick for your territory.

AMERICAN ALUMINUM MFG. CO.
Div. C. O. 5 Lemont, Illinois

One Gallon Oil

Save oil and bother. X-Ray Incubator with heating plant underneath requires only one gallon oil—one filling—for entire hatch.

X-Ray Incubators and Brooders

by prepaid express to practically all points. Send for free book No. 10 telling all about the 15 special features.

THE X-RAY INCUBATOR CO.
Dept. 10
Des Moines, Ia.

One Filling

Is this the same 'as the "flowers of sulphur" you have recommended in the Questions and Answers Dept. as a preventive of chicken pox?

Lakewood, N. J. E. T. S.

A. Flowers of sulphur is sublimed sulphur and can be obtained of any druggist. We do not know just what "sulphur flour" is. The labels we have noted call it "dusting sulphur" and "pure, refined, sulphur flour" which may be used for any of the purposes for which commercially pure sulphur is used." Whether it contains anything other than pure sulphur we do not know, but the inference is that it is not the same as flowers of sulphur and if we were buying a remedy for internal use with poultry we would obtain same thru a drug house and not use a commercial grade originally put up as an insecticide.

Nutritive Ratio.

Q. (1) What do the authorities consider the proper ratio of protein, fats and carbohydrates for a balanced ration for laying hens?

A. (1) So-called balanced rations show a nutritive ratio for entire ration of from 1:4 to 1:6. Digestibility, palatability and succulence are, in practical, every-day poultry work, of greater importance than mere chemical balance. You might have a mash that would figure a well-balanced ratio but that would lack digestibility or palatability and so would not be good. Most of the books on poultry feeding clearly explain how to figure nutritive ratio. A good mash is made of concentrated foods to narrow the ration, since the nutritive ratio of whole grains has to stand "as is." Most good mashes will approximate a ratio of 1:3.

Q. (2) How should a laying mash be proportioned out of the following ingredients: Wheat bran, wheat middlings, white corn meal, corn gluten meal, bone meal (27% protein, 6% fat), beef meal (guaranteed 85% protein and 7% fat), our mashes contain a teaspoonful of mustard to each 10 hens?

Strasburg, Va.

W. D. M.

A. (2) In common practice that mash would be mixed about as follows: 100 pounds each of bran, middlings, corn meal and gluten; 25 pounds bone meal; 50 pounds beef meal. It would figure approximately a nutritive ratio of 1:2.5.

Figures may vary somewhat according to analysis of the ingredients. In figuring the nutritive ratio the problem is expressed thus:

Protein: Carbohydrates plus (fat x 2.25). The fat has a value 2.25 times that of the carbohydrates.

Ducks in Back Yard.

Q. I am about to add a few ducks to my back yard poultry. I have selected Indian Runners because I have no water

Make Hens Lay Now And All Winter Through

Fall and winter eggs bring big money. This season they are selling at higher prices than ever before. This is your big opportunity to make your flock pay handsome dividends. Get the eggs!

Start your early-hatched pullets to laying now. Keep them at it all winter. Hurry along the late ones. Build up the strength of the hens which have become weakened as a result of the strength-reducing molting process. Enable every layer to fully digest every bit of feed she eats and convert it into eggs, thus cutting expense and increasing the income.

You can accomplish all this at a cost of but one cent a hen per month by using

Pratts Poultry Regulator

It makes hens lay by supplying the tonics they need at this season and quickly putting them in laying condition. It induces them to eat better—hastens digestion and assimilation—prevents disorders of liver and bowels—stimulates the egg-producing organs into activity. Your hens need these materials now when confined and kept under unnatural conditions.

Pratts Poultry Regulator is America's original poultry conditioner. For nearly fifty years it has given the most satisfactory results to untold thousands of successful poultrymen. Give it a fair test under our liberal money-back guarantee and learn how well your hens can lay.

Pratts Roup Remedy

is a winter necessity on the poultry plant. Use it to prevent colds, roup and similar troubles or overcome them if they have already appeared in your flock.

Our dealer in your town has instructions to supply you with Pratts Preparations under our square-deal guarantee—"Your money back if YOU are not satisfied"—the guarantee that has stood for nearly fifty years.

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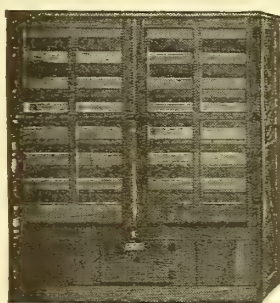
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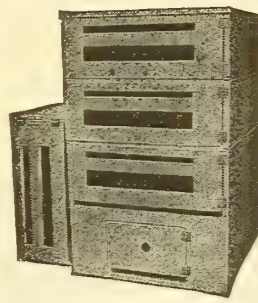
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CLOSE-TO-NATURE GRAIN SPROUTERS



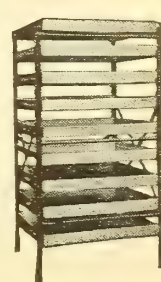
DOUBLE QUICK

The ORIGINAL, the PIONEER of All Sprouters. Cypress case outside, Galvanized Metal Grain Chamber inside. Heat flues between. One piece, all metal, serrated trays. Six Sizes, 1-4 to 8 bu., A few Hens to 1,000. PRODUCES the VAPOR-BATH SPROUT.



Colfax ALL-METAL

Built in Sections. Add Sections as your Flock Increases. Insulated double Walls with heat flues between. Two Base Sizes: Small trays 1-4 bu. and Larger Trays 1-2 bu. each. One piece, all-metal, serrated trays. PRODUCES the VAPOR-BATH SPROUT.



The LAMPLESS

Used in Furnace room or other places of high temperature. Ebonized iron frame and one piece galvanized serrated trays. Sizes: 1-2 bu., 1 bu., 2 bu., 4 bu. DOES NOT PRODUCE the VAPOR-BATH SPROUT.

The Grain Sprouter Runs Up the Egg Yield and Cuts Down the Feed Bill. Makes 2 to 3 bu. feed from 1 bu. grain. Vapor-Bath machines sprout in 20 to 30 hours and force growths of 1 to 2 inches daily. Also germinates wheat for little chicks in 24 to 36 hours. The Close-To-Nature Sprouters—the Perpetual Poultry Silos—Pay a Dividend Every Month in the Twelve. We are the pioneers and the largest Sprouter Manufacturers and we make all kinds of sprouters for all kinds of conditions. Send for free catalog.

CLOSE-TO-NATURE COMPANY, 38 Front St., COLFAX, IOWA

TOMPKINS' RHODE ISLAND REDS

ROSE COMB

SINGLE COMB

Get your show birds for the fall shows. Over 1000 birds now in the pink of condition to select from. Also a few good breeders left over from my summer sale to dispose of. All bred from my noted winners. Write your wants at once and receive prompt reply.

HAROLD TOMPKINS, Box A, CONCORD, MASS.

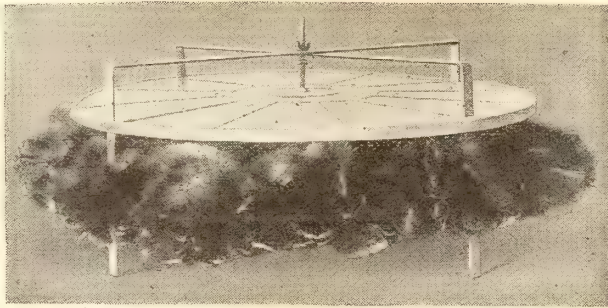
Fernbrook Farm White Wyandottes again demonstrate their quality at the great New York State Fair by making a great winning in young stock in the strongest class ever exhibited there. 1, 2, 3 and 4 pullet, 2 cockerel, 2 and 3 pens, 1st farm or utility flock over all American class varieties, and \$15 Sweepstakes Special for best flock over all varieties. (51 flocks, 510 birds entered.) Both our exhibition and utility stock are better than ever, and our prices are low for quality shipped. Mating and price list free.

Fernbrook Farm, Arthur G. Bouck, Manager, Box A, Menands Road, Albany, N. Y.

**This is the
Solution of
Your Brood-
ing Troubles**



Nature's way of
brooding chicks
is outdone by



Simplex Perfection Feather Brooders and Hovers

They are real artificial hens—"giant biddies" is what they have been correctly nicknamed. They are made of natural feathers to suit the requirements of the largest as well as the smallest breeders. They have been successfully used on some of the largest poultry plants in America. In 1911 the Midlothian Poultry Farms, of Tinley Park, Ill., installed our feather hovers in all their brooder houses and have had them in continuous use since that time.

Simplex Perfection Feather Brooders are manufactured exclusively by us—both heated and fireless construction. Prices to suit every purse.

Simplex Perfection Feather Hovers for brooder houses are manufactured in 3 sizes. Prices from \$3.00 to \$5.00. They are light and sanitary.

Send for our complete catalog and let us tell you more about these wonderful Chick Raisers.

SIMPLEX SUPPLY HOUSE, Pontiax Bldg., CHICAGO, ILL.

March and April Pullets

Something nice in early hatched pullets, ready for delivery. We have 500 S. C. White Leghorn and several hundred Barred Rock and White Wyandotte pullets, fully matured and ready to lay. They are splendid in type and shape, healthy and vigorous and have been developed on free range. Grand in size and color. Prices—Leghorns, \$1.25 each, \$1.10 each in 100 lots; Rocks and Wyandottes, \$1.50 each, \$1.30 each in 100 lots; 100 White Wyandotte yearling hens at \$1.25 each in any quantity. These are large and massive in size, have snow-white plumage, beautiful type and are wonderful in value. Some prime breeding cockerels at reasonable prices. Prices on application. All stock as represented and we guarantee absolute satisfaction. All stock shipped on approval. Address

O. R. REMINGTON, Box 1527, WASHINGTON, D. C.

Longfield Rose Comb Reds The Greatest Chicago Winners

A grand lot of birds for sale. We have about 2000 head to choose from and can suit you in either good breeding or the finest exhibition stock. On Approval Always.

At the Chicago Coliseum Show

which is probably the strongest Red Show caged, bar none, we have won in the past 5 seasons more than four times as many first premiums as any competitor, and Best Display the past 3 seasons. A Record. Think this over before introducing your new blood.

LONGFIELD POULTRY FARM, Box 321, Bluffton, Ind

Orchard Farm Reds

We have a grand lot of exhibition birds, both old and young; ready to show now. Write at once.

ORCHARD FARM - - NOROTON HEIGHTS, CONN.

SPRAGUE'S STOCK FOR SALE that will please you as well as the judges. My free circular tells all about them.
Reds P. H. Sprague, Dept. A, Maywood, Ill.

WYANDOTTES—Silver, Golden and White

500 head of the very finest to spare at bargain prices. Rare, fine show birds and fancy breeders in both old and young. Bred from my New York and other great winners. If you wish quality we can fit you out, also Golden Sebrights. Finely illustrated circular free. **IRA C. KELLER, Brookside Farm, Box 75, PROSPECT, OHIO**

run for other varieties. Please give me a general idea for house and yard, also how I should feed. Our spring and summer will run from 30—50 to 90 above, while our winters will go as low as 20 below; not much 20 below zero weather and seldom more than 12 below zero.

Willimantic, Conn.

S. B.

A. See book "Open Air Poultry Houses for All Climates," obtainable from Chicago Office of AMERICAN POULTRY JOURNAL at 75 cents per copy postpaid. A simple open-front house of the Woods' type will give you good results. One 8x14 ft. or 10x16 ft. would be most practical size for a back yard flock. Give them all the yard room you can spare and if possible have a double yard so that you can keep greens growing in one while the other is in use. Drinking water should be supplied in vessels big enough to permit ducks to get whole head under water. Renew water supply often and always water at feeding time. Keep house and runs clean and the floor of house dry, otherwise your back yard flock of ducks is liable to be a nuisance to neighbors. Following is a good ration, quoted from "Poultryman's Formulary":

Wheat Bran.....	1 bushel
Corn Meal.....	1 bushel
Beef Scrap.....	10 lbs. av.
Low Grade Flour.....	1½ pecks
Boiled Vegetables, turnips, beets or potatoes.....	1 peck
Scalded Cut Clover or Clover Rowen, Green Rye or Cabbage.....	1½ pecks
Grit or Sand.....	3 pounds av.

Above mash should be mixed with cold water and fed night and morning. At noon give light feeding of cracked corn and whole oats. Keep fine grit, fine ground oyster shell and pure water always before the birds.

Roosts.

Q. I have a poultry house 7x18 ft., 5½ ft. high on low side and 7 ft. high on high side, with top two feet screened. Now for roosts, what shape should they be, round or flat? What size? How far apart? How high up from the floor? I have White Leghorns. How many inches of roost space shall I allow for each hen? Am short or room and keep layers only.

Naco, Ariz.

N. Y. B.

A. For roosts use 2x3 in. stock, 2-inch side up and sharp edges rounded a little. Have drop boards 2½ feet above floor and roosts about 10 inches above the boards. See that there is head room on rear roost so that tallest male bird can stretch himself and crow without danger of bumping his head. Have rear roost far enough from wall so that tail feathers of males will not touch wall. Have other roosts 14 inches apart center to center. Allow not less than 6 inches roost space per bird.

Poultry Judges License.

Q. Can you give me information concerning a license for judging poultry and the conditions?

Reading, Mass.

P. R. B.

A. For full particulars apply to Sec-

Muller Sectional Brooder Coops

and Runways
Most convenient, durable and attractive. All sections secured by galvanized steel rods passing through screw eyes, providing a rigid joint and a perfect hinge. Can be assembled or taken down in two minutes, and no tools are required. Write for our free Booklet.
Franklyn R. Muller, 2 Madison Avenue, Waukegan Ill.

Do You Have "Good Luck" With Your Chicks?

How often you hear some person say: "I have no luck with chicks." "Luck" with chicks starts with the incubator. If it's a good incubator — properly heated, **properly regulated** (which is **very important**) and properly ventilated — your chicks will start off with vitality. They won't come out of the shell half dead and totally unfit to start on their way through life. So many people trust their eggs and their hopes to a cheap machine, forgetting that it is not how many you hatch that counts, but how many **live and prosper**.

The Queen is accurately regulated—it will take care of a temperature variation of 70 degrees without danger. It is built of genuine California Redwood—very scarce in these days of imitation and cheap substitution. Redwood **does not absorb the odor** from the hatching eggs.

John Bowen

of the Colorado Poultry Fanciers' Association, wrote: "Last season the writer installed a Queen as an experiment, and found that it hatched 18 per cent better than Eastern made machines and 11 per cent better than any machine built in the West. All of the machines were run under exactly the same conditions."

Stop Losing Chicks

With cheap incubators. A Queen costs but little more, and the extra chicks that **live and grow** soon pay the difference.

Start Your Chicks With a Queen Constitution

Many people write us that they have never known a machine that hatched such **strong, healthy chicks** as the Queen. The Queen is not a cheap incubator, compared with many of the cheaply constructed machines on the market, but it is cheap in the long run. It will be turning out high percentage hatches years after the cheap machines have been junked. It will be a pleasure to send you our new Catalog. It will be mailed to you free on request.

QUEEN INCUBATOR COMPANY, 1037 N. 14th Street, LINCOLN, NEBRASKA

Richard Wayne, Gary, Ind., writes: "I have been in the poultry business and used both hot water and hot air machines. I have made a very thorough comparison of 12 different machines and the Queen is the best constructed of all."

Alfred Cramer, Morrison, Mo., says: "I have operated about ten other incubators and the Queen is vastly superior to any of them."

S. L. Todd, Green Forest, Ark., says: "I have tried six other machines, high and low priced, and the Queen is the best incubator I ever saw."

"Not a Single Complaint"

Queen Incubator Co.
Lincoln, Neb.

Gentlemen:

Chicago, Ill.

During the many years you have been advertising Queen Incubators in the columns of American Poultry Journal, we have not, to the best of our recollection, received a single complaint from one of your customers.

Yours truly,
American Poultry Journal



Mrs. C. C. Blake

of Pocatello, Ida., just starting in the poultry business writes: "An old poultryman told me I had made a wise choice when I selected the Queen. He has 14 different makes at his large poultry plant, both hot water and hot air. He finds hot water machines far superior to the hot air, and the **best hot water machine is the Queen.**"

Self-Supporting
Egg Tray and
Deep Nursery—
Can't Fall Out

It's so easy to take care of a Queen. Nothing to do but fill the lamp and turn the eggs.



*The Famous
NONPAREIL*

Single Comb R. I. REDS

Change Ownership

WE have bought all of the *Exhibition Stock*, together with the name and the good will of the justly famous S. G. McLean "Nonpareil Strain" of Single Comb Rhode Island Reds.

These birds, together with our own strain of breeding stock, places our plant among the Red leaders. In the past we have had the type together with the egg laying qualities, and with the hundreds of "Nonpareil" birds we feel justified in calling our flocks the "four-in-one," namely: Color, type, vigor, and eggs.

You, no doubt, recall the wonderful winnings made by these "Nonpareil" birds, but to freshen your memory just go over the records of Madison Square Garden, also Boston, not to mention the smaller shows, and fairs held thruout Massachusetts and Connecticut. As layers they have in past years stood well at the top in the Storr's Contests.

You Are Looking for the Best for the Least

and we think we can satisfy you. Just give us a trial order, you to retain the bird 24 hours and if not satisfactory, return same and your money will be returned promptly, without any "red tape." Be sure to state which you desire, *Exhibition* or *Breeding* Birds.

HICKORY FARMS

R. C. Blake, Mgr.,
TOWNSEND HARBOR,
MASS.

White Langshans

The ideal bird for
farmer and fancier

STOCK FOR SALE CHEAP AT
MOHAWK POULTRY FARM
R. H. MOORE, R. 1, NELLIE, OHIO

PULLETS

March hatched pullets 6 to 10 weeks old from Leghorns, Rocks, Reds, Orpingtons, Minorcas, Anconas, Campines, Wyandottes, \$10.00 per dozen and up. Pekin Ducks and Supplies.

Circular free. Stamps appreciated.

HOUCK HATCHERIES & BREEDING COM'Y
Box 72, Tiffin, Ohio

Harbin's S. C. W. Orpingtons

Prize Layers—Prize Winners. Best possible foundation stock, young or old. Bred-to-Show quality for sale—prices very reasonable. I can improve your flock.

E. J. HARBIN, P. O. Box A-1195, Riverside, Ill.

OUR PARTRIDGE ROCKS

will be heard from at the winter shows. Do you want such birds? (No Sunday business.)

Meadow Lawn Poultry Yards, Dept. C-D, Sand Creek, Mich.

White Leghorn Cockerels

\$2.00 each. Small comb, pure white and good shape.

Yearling Hens, \$1.00 each.

Morse's White Leghorn Farm Belding, Mich.

Mention AMERICAN POULTRY JOURNAL when writing to advertisers.

retary S. T. Campbell, American Poultry Association, Mansfield, Ohio.

Mating Young from Same Sitting.

Q. I have some S. C. White Leghorns which were raised from a \$5 sitting of eggs. Would you advise mating the pullets to one of their brothers or should I get an unrelated cockerel?

Mountindale, N. Y.

H. B.

A. Select the two best cockerels, if you have two good enough, and carefully mate the pullets to them. Try to balance up the matings by offsetting any weak points or defects on one side by strength in same points in the mate.

Winter Management of Breeders.

Q. Please tell me what is the proper way to handle a few White Wyandotte pullets, which I expect to begin laying soon, in order to obtain best eggs from them as breeders next spring. I suppose I should keep them from laying, but how? I have no facilities for changing them from one house to another.

Kewanee, Ill.

C. C. C.

A. We prefer to have pullets well established in laying, so that eggs come good sized, before using their eggs for hatching. In holding them for use as breeders do not force egg production by feeding rich mash. Give mash sparingly or not at all. Feed plenty of greens. Make the birds work for their daily grain in litter and feed just enough to keep them in good condition with keen appetites. Ration should be mostly whole grain and very largely composed of heavy oats. Feed meat foods in limited quantity only and just enough to add variety to the ration. Don't make the mistake of starving the birds or stalling them with too much sameness in the ration. The difference in feeding to keep stock birds healthy and in good order and feeding for eggs is largely a difference of degree. If you force the feeding you promote egg production; if you are careless in feeding you may have your birds lay themselves out of condition on too scant a ration; if you overdo forced feeding for egg production you may get the birds out of condition thru digestive troubles; if you change abruptly from a scant wide ration to a liberal rich one, you may start the flock moulting. Good management in feeding requires knowledge of the flock in hand and intelligent observation of conditions.

Leg Weakness—Capon.

Q. (1) I have two S. C. Black Minorca chickens that seem to have some kind of leg or back weakness. They are well grown, have good appetites, are very thin, but otherwise appear healthy. How can I treat them? They are well fed.

A. (1) Feed a good mash daily containing about 15% cut clover (steamed) and 10% best quality beef scrap (scalded). If the scrap does not contain a noticeable percentage of bone, you can also add a little granulated bone to

QUALITY BRED-TO-LAY

S. C. W. Leghorns

Exclusively. Before buying elsewhere tell us what you want and get our prices and free catalog. We guarantee to please.

THE ELLIOTT POULTRY FARM
R. 7, Box 87, Mansfield, Ohio



BUTTERCUPS

Winners of Best Display at
New York State Fair 1916

Where Buttercups were the second largest class entered. There were 14 pens entered. I won 1st, 2nd and 3rd. Do you want show birds? Don't delay. Cockerels and pullets now ready, prices right. Will sell a few hens from my 1916 breeding pens.

MRS. HATTIE D. REED
Chestnut Terrace Marcellus, N. Y.

S. C. ANCONAS

At State Fair, Milwaukee, Wis., Sept. 1916 I won 1st and 2nd cockerel, 1st and 2nd hen, and 3rd pullet on 7 entries. I have a fine flock of beautiful pullets and cockerels ready for the coming shows bred from our Chicago and Milwaukee winners. Also a few good, utility hens and pullets. Catalog free.

CORA B. GARBUTT
DARIEN - WISCONSIN

"Have Moved"

Must discontinue poultry business for lack of space in new location. Right Cornish at right prices, act now.

DAWDY & DAWDY - GREENVILLE, ILL.

Bargains in Leghorns

Having decided to devote our time to Barred Rox and Lt. Brahmas, will sell our S. C. W. Leghorns at a sacrifice.

W. H. WARD - NICKERSON, KANS.



HERE IT IS! The leg band you have been looking for. Numbers up to 1000; will not scratch off. Made of aluminum and celluloid. No free samples, but money back if not satisfactory. \$2.00 a hundred or 3c each. Double numbers if desired. Catalog free, showing pigeon and chick bands.

M. M. BROURTON 231 Salem St. WAKEFIELD, MASS.

S. C. BROWN LEGHORNS Partridge Plym. Rocks

Chicago winners at farmers prices.

E. A. Crotser, Box 12, Fulton, Mich.



Don't buy a show coop or in fact anything in the poultry line until you get my catalog and prices.

Write Now

Warner "The Coopman"

Corner River and Race
ALLEGAN, - MICHIGAN
Trap-nests, Chick Boxes, Lice Remover, Shipping Coops, etc.

Get acquainted sale for 30 days

S. C. ANCONAS, WHITE WYANDOTTES

Cockerels \$2.25 up. Pullets \$2.00 up.

LONE OAK POULTRY YARDS, E. B. Peck, BATAVIA, N. Y.

FOR SALE

20 Hot Water Incubators, 500-egg capacity, Guaranteed Hatchers; good condition, \$27.50 each. Worth double. One \$35.00 Newtown Brooder stove, used 3 months \$22.50. One International Hoyer \$5.00.

PEERLESS HATCHERY, 4537 S. Sacramento Ave. Chicago, Ill.

POWERS' W. WYANDOTTES

600 fine youngsters for sale from my heavy egg strain

J. H. POWERS' POULTRY YARDS

7920 Bennett Ave. Chicago, Ill.

Mention AMERICAN POULTRY JOURNAL when writing to advertisers.

the mash; most beef scrap, however, has plenty of bone in it. Feed mash once a day and a mixture of cracked corn and oats twice a day. Give all they will clean up promptly at a feeding. Do not leave food before them all the time.

Q. (2) What should capons be fed and how cared for after the operation? Have succeeded with the operation, but they all die after about 3 or 4 days. Should the wound be sewed up?

La Fayette, Ala. H. B.

A. (2) This reminds us of that oft-repeated statement, "the operation was successful, but the patient died." There was something wrong with your operation or you would not have lost all the chicks. When operation of caponizing is properly performed no sewing is necessary. It is well to keep caponized birds confined in comfortable, clean quarters for about a week after the operation. Special feeding is not always resorted to, the birds have a keen appetite—having fasted before the operation—and they proceed to fill their crops and forget their troubles. A good feed for first food after operation is a moist mash of cornmeal and bran moistened with sweet milk. usually it is well to keep the birds on the regular ration to which they have been accustomed. Some growers recommend scant feeding for a few days, while others—equally successful—advise giving all the food the birds will eat. If wind-puff occurs, following the operation, relieve the bird by pricking the puff with a pen-knife. The capon house should be clean, dry and comfortable. A skillful operator will caponize birds almost as fast as the assistant can pass them to him. Prolonged operations result in losses. Practice on dead birds until you have sufficient skill to operate speedily; it will be time enough then to work on living specimens.

Changed Ration, Stopped Moulting.

Q. After 8 months of continuous and profitable laying my S. C. White Leghorn hens stopped laying and began to moult quite freely. I changed the feed, putting them on a ration of oats and bran only, with the result that they stopped moulting. I wish to prepare them for winter laying and ask that you advise me of the best cheap method of feeding fowl in that shape.

Milan, Mich.

J. B. Y.

A. You made a big mistake to cut down the ration when the fowls began to moult freely after 8 months of continuous and profitable laying. They had earned their rest from continuous egg production. It is evident that they were coming along in good normal condition and that their ration was about right at the time they began to moult freely. At the time when they most needed generous feeding on fairly rich and stimulating food, you cut the ration down to an almost starvation diet. Had you kept on with the regular ration—and perhaps added about 5% old process oil meal to the mash and fed succulent food, like cabbage, freely—it is probable that the moult would have cleaned up promptly and that your birds would now be laying well. It will take some time now to get them into good condition again. Economy in feeding is not found in "cheap" feeding. The least expensive method of feeding is the method that brings desired results. Would recommend that you return to your original ration, adding a little oil meal to mash and that you feed greens freely. You will prob-

"Dandy" Bone Cutter

Feeding green bone is one of the first steps to gain a big egg yield. But the bone must be cut right. The "Dandy" Green Bone Cutter cuts across the grain of the bone, enabling the hen to digest the nutritive elements better and convert same into eggs, blood and feathers.

\$5
AND UP

NO MONEY IN ADVANCE
15 DAYS FREE TRIAL

You don't pay a cent until you try the "Dandy," and it satisfies you. It costs less than most bone cutters. It works infinitely better. Also cuts meat, vegetables, roots, etc. The "Dandy" Clover Cutter is substantially built for cutting. Easy running and of moderate price. It is guaranteed to be one of the best on the market. If you want the most efficient and economical Bone Cutter or Clover Cutter, don't buy until you get our free booklet. Write for it today.

STRATTON MFG. CO., Box 17, Erie, Pa.
"Dandy" Bone Cutters "Dandy" Clover Cutters



Rid Your Poultry of Pesky Lice!!



A Sure Shot Zenoleum Lice Killer gets quick action on lice, mites and disease germs of poultry. Safe to use and never fails.

ZENOLEUM Lice Powder

The Powder That Penetrates to the Skin

It has such "fluffiness" that it easily penetrates through the feathers to the skin. Used and endorsed by leading poultry men.

Get a Big 25c Package! Price at any dealers 25c or by mail postpaid 35c. Does the work or money back—no talk, no argument, just money back.

Book "HOME TREATMENT FOR POULTRY DISEASES"—FREE
Zenner Disinfectant Co., 401 Lafayette Ave., Detroit, Mich.

200 Egg Strain PEDIGREED

GOLDEN WYANDOTTES
300 of the best young birds I ever had for sale and they are direct from my World's Fair winners. I wish to close out my Silver Campines and will make a bargain price on pens, trios, or the entire flock. Circular free.

J. S. PENNINGTON

Secretary Golden Wyandotte Club

Box A, PLAINFIELD, ILLINOIS



I want to show you how to make Money with Poultry
T. E. Qulsenberry

What Others Say.

I can now save enough on feeds to pay for the entire course. **F. M. HILL,** LaGrange, Ill.

I would not take the price of the whole course for the lessons on breeding and mating. **F. L. MOYSE,** American Fork, Utah.

I could have saved about \$400 had I taken your course before I started. **FRANK WYER,** North Woburn, Mass.

The knowledge I have gained from the disease lesson is worth the price of the course. **GEORGE W. MORRIS,** Russellville, Ky.

I have been in the building business for 30 years but your lesson on Poultry House construction is the best I have ever seen. **E. M. WIGGIN,** Kansas City, Kas.

Your lesson on baby chicks is just what we have been looking for. Last year we lost 650 chicks out of 1600. This year we lost 65 out of 1600. This is the result of just one of your lessons. **GEO. M. JONES,** Escondido, Calif.

It is my earnest desire to put a real—useful—practical poultry education before every man and woman who is interested in poultry raising. I want to see more and better poultry raised—I want to see more people making money with chickens—I want to eliminate the losses and disappointments that so many poultrymen experience—I want to help you solve your poultry problems—and I can do it.

A Complete Poultry Education

I have made it possible for you to obtain right in your own home, during spare time, a complete—thorough—and practical a knowledge of poultry husbandry such as you could get nowhere else except at an agricultural college.

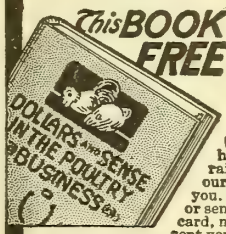
In a course of lessons taught by mail, I have completely covered the science of poultry husbandry and made it so plain and simple that anybody can understand it. I give you knowledge it has taken me a lifetime to acquire.

I show you how I make hens pay a big profit each year. I show you how I got 2,354 eggs from ten hens in a year. I show you how to feed for a big egg and meat production, how to select a site for your poultry plant and how to build your houses (right here I save you many times the price of the course)—how to get winter eggs and spring broilers—how to incubate and raise baby chicks—how to mate and breed—how to avoid and treat poultry diseases—how to show and win at poultry shows—how to dress and market poultry for the biggest profits. In other words there is no phase of poultry culture that you are not taught thoroughly. Hundreds of our students tell us that each lesson is worth the price of the whole course.

You cannot afford to be without these lessons. They pay for themselves many times each season in increased egg yield—in preventing losses from disease—in knowledge. The broadest guarantee is possible to write covers this course. If you are not satisfied you do not pay.

Get Our Free Book Today

Our Free Book "Dollars and Sense in the Poultry Business," fully explains how we can help you to make more money and save money raising chickens. It explains in detail just what our lessons teach you and what they can do for you. Just fill in and mail the attached coupon or send your name and address on a post card, no letter necessary, and a copy will be sent you by return mail.



T. E. Qulsenberry, Pres., American School of Poultry Husbandry
Box 51 Leavenworth, Kansas.

Use This Coupon
Without obligation on my part send me a copy of your FREE BOOK.
Name _____ Address _____ Town _____ State _____ R.F.D. _____

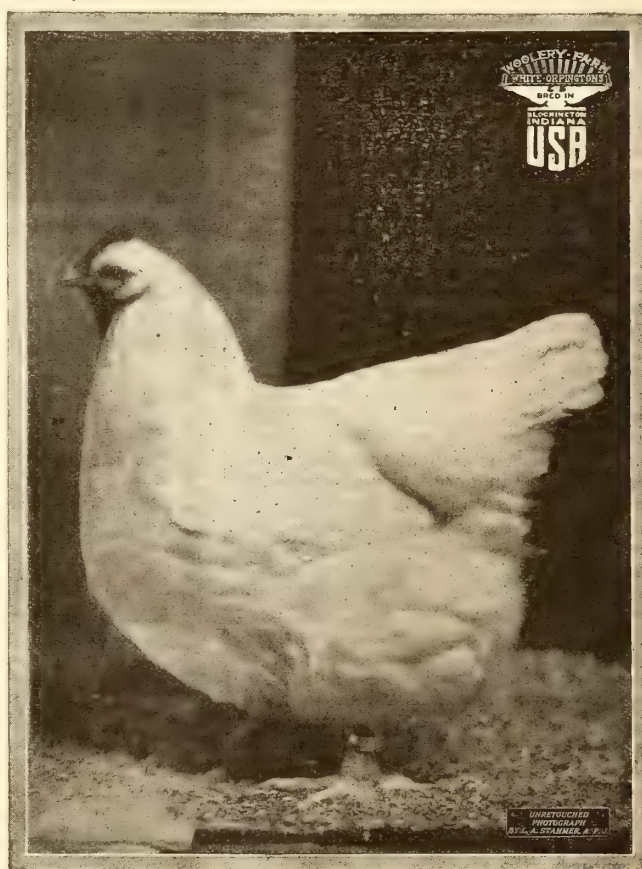


FIRST SILVER CAMPINE PEN, BOSTON, 1915.

The above picture represents the first prize pen of Silver Campines at Boston, 1915. Owned and exhibited by Homestead Campine Farm, Box A, Wayland, Mass.



A typical White Wyandotte female, and a winner at many shows. Owned by Fernbrook Farm, Menand's Road, Albany, N. Y.



The above White Orpington was first hen at Chicago Coliseum Show 1915. Owned by Woolery Farm, Box Y, Bloomington, Ind.

ably have more or less trouble in cleaning up the moult and getting the flock back to egg production. You will have to pay for your experience in lost time, loss of yield and in special attention given to getting the birds into condition to meet cold weather in good order. You will be lucky, if by good care and liberal feeding, you get them into laying condition within the next six weeks.

Tumor on Back.

Q. On the side of one of my White Wyandottes, (on right side facing the bird) between the wing and the spine, there is a growth about the size of a small hen egg. This lump is hard and has no feathers on same, the skin is not broken, and there are no bruise marks. The bird seems healthy enough and the flesh looks very good. First noticed the growth two weeks ago. If bird is killed and bled would it be fit to eat? What is it and what can I do for same?

London, Canada. B. C. V.

A. Careful examination of the bird would be necessary to determine the precise character of the tumor. We would not want to eat a bird showing a growth of that nature. Surgical operation to carefully remove all of the growth is the only remedy. You might try this and report results.

Beginner's Questions.

Q. (1) I am a beginner. Would like to know what you mean by housing the pullets. How much room should they have? I am a back-lotter. Have a rye patch 50x75 ft. and one more lot 100x50 ft. in Bermuda and Japan clover. That is about all the room I have for green stuff. I use the rye in winter and the clover from May to October. I'll have about 85 pullets this winter.

A. (1) Housing the pullets simply refers to getting them into the quarters that they will occupy this winter. Give them such house and yard room as you can spare and do not crowd them. Do not make too great a change from the conditions under which they were grown. Feed greens freely. They will require about 4 sq. ft. house room (floor space) per bird and about 75 sq. ft. yard room per bird.

Q. (2) Do you think I will need to feed sprouted oats with this amount of rye and grass?

A. (2) If the rye and clover holds out well, you will probably not need sprouted oats. If supply of other greens runs short would sprout oats. Give one full feeding of some green stuff daily.

Q. (3) I am not able to buy expensive stock. Which would be the cheapest, to buy a pen of chickens this fall, or get eggs and chicks in spring?

A. (3) Eggs and chicks in spring.

Q. (4) Where can I get good beef scrap?

A. (4) Thru your feed dealer, or consult our advertising columns.

Q. (5) Is it cheaper and best to feed with automatic feeders? Where can same be obtained?

Martin, Tenn.

J. S. B.

A guarantee tag on every bag, to show exactly the feeding value contained inside.

H-O POULTRY FEEDS

THE H-O COMPANY
Mills:
Buffalo, N. Y.

JOHN J. CAMPBELL
General Sales Agent
Hartford, Conn.



Andrews' White Wyandottes

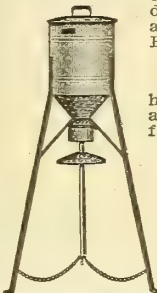
Won at Boston, 1916

1st cock, 1st cockerel, 1st pen, 1st and 2nd hen, 2nd and 3rd pullet. Book order now for winter shows. Have the quality that can win for you. Write for prices. Free catalog.

J. W. Andrews Box A Dighton, Mass.

The Oakes Economy Exerciser and Feeder

is made on a new principle. Bait cup eliminated, with its tantalizing temptation to overeating and constant pecking, which causes sore bills. Grain fed down as fast as you want it thru scratching. We believe this the best and most economical feeder made. Weather, vermin and sparrowproof. Especially valuable in winter.



O. K. POULTRY FOUNTAIN

has sealed dead air space between walls. Keeps water cool in summer and warm in winter, that when filled with warm water it will not freeze all day.

The Oakes Line of Poultry Supplies

is complete. Scores of articles that increase the comfort of fowls in winter, and keep them in condition. It includes Incubators, Regulators, Thermostats, Drinking Fountains, Feed Hoppers, Egg Testers, Feed Bins, and many other high grade specialties, all of the very best quality. Ask for particulars.

The Oakes Mfg. Co., Dept. B Factory and Home Office, Tipton, Indiana Eastern Branch, 64 Cliff St., New York City



1st Cockerel, 2nd Cock and 1st Pen Ch., New York, 1913

Black Langshans

First prize winners every year for ten years at New York, Chicago, or Indianapolis.

(Jan., 1916, we won **four** firsts at Madison Square Garden, N. Y., and **five** firsts at Indianapolis—the National Langshan club show.)

Show Birds of the very highest quality for sale. Satisfaction always.

M. S. Barker, R. R. 1, Thorntown, Ind.

Speckled Sussex

My first prize Quincy pullet has now laid 218 eggs in 256 days. A few of her cockerels for sale. I expect to be sold out entirely long before the end of the season, as on October first I had sold over half the birds I raised this season. Every bird on my place was sired by the son of a first prize winner at Chicago, Madison Square or Crystal Palace (England). If you will tell me number of birds you want to buy and amount you wish to invest, I will send you sample feathers and description of the individual birds. Circular free.

CHAS. A. SIMMONDS

CAMP POINT, ILLINOIS



290 EGGS
IN ONE YEAR

Mapleside Bred-to-Lay Barred Plym. Rocks

ACKNOWLEDGE NO SUPERIORS AS LAYERS

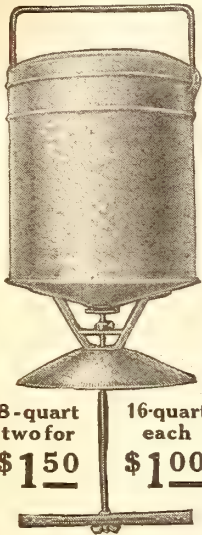
About 2,000 1916 hatch stock, including the grandest lot of *Pedigreed Breeders* I ever offered, having ancestry back of them with yearly egg records up to 297. Circular of **FACTS** Free.

O. F. MITTENDORFF

Box F

LINCOLN, ILLINOIS


Here Are Some Big Bargains



This is the *Faultless Automatic Feeder*

All you have to do is to fill the can of this feeder with wheat, corn, oats or any other kind of feed, either mixed or separate. When the chickens are hungry they peck at the cross bar; this causes some feed to drop to the ground where the chickens can pick it up. No feed spoils or is eaten by rats or sparrows. **You can save enough feed in one month to pay for these feeders.** Besides the saving of feed, you save work.

Here Are Our Low Prices

 This feeder holds $\frac{1}{2}$ bushel of feed. It is made of heavy rust-proof material. It sells regularly at \$1.50—we sell it **for \$1.00** at factory in Chicago, Illinois. It weighs six pounds packed for shipping. Order by **No. 153.**

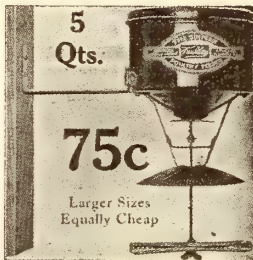
And What is More, we will sell you two 8-quart feeders, same style as above, both for \$1.50 and ship promptly from warehouse in Chicago, Illinois. These two feeders weigh nine pounds and will not be sold singly. Order by **No. 152.**

8-quart
two for
\$1.50

16-quart
each
\$1.00

Here is the Feeder for Your Low Coop Or for Your Baby Chicks

It holds five quarts, will feed any kind of feed, either mixed or separate. It is built on the principle of the large **Faultless Feeder** and is furnished complete with bracket, which can be attached to the wall or side of a coop at proper height. This feeder is beautifully enameled (dark brown) and with ordinary care it will last forever. It is guaranteed to feed your stock perfectly from the time the chicks are able to eat until ready for the axe. We sell this feeder for 75c, f. o. b. factory in Chicago. It weighs $3\frac{1}{2}$ pounds when packed. Get one today and feed your chickens right. Order by **No. 151.**



We carry a full line of poultry appliances and remedies. We also manufacture the well known Simplex Genuine Feather Brooders and Hovers—both heated and fireless. Send for our CATALOG; it will interest you.

SIMPLEX SUPPLY HOUSE, Pontiac Bldg., CHICAGO, ILL.

\$

Where Does the Money Go? Where Did It Come From?

Those are the big questions. Be able to answer them by keeping accurate records in our new, simple,

Poultry Account Book

This book contains space to keep a detailed daily record for one year of Eggs Laid, Value of Stock Sold, Eggs Sold, Eggs and Stock Used for Table, Expenses for Labor, Feed and Miscellaneous. With the aid of this book you can tell where your leaks are, where the profits come from, and it will serve as a guide to making your business more profitable. Printed on good quality writing paper suitable for ink. **Price 25 cents.**

American Poultry Journal Pub. Co., 542 S. Dearborn St., Chicago

\$

WHY DON'T YOU BREED

Winter Laying Leghorns

AND MAKE SOME MONEY?

Dr. Heasley's S. C. Buffs outlaid all Leghorns for January in Missouri Egg Contest—laid 40% above 200 for a customer—won Club Special on shape at World's Fair and Championship at Chicago Colliseum Show. We've proven our claims. Bred for Eggs but Fit to Show. Egg Bred Cockerels and Exhibition Stock now.

DR. L. E. HEASLEY

Box A

HOLLAND, MICH.

A. (5) Being a beginner you will probably get the most satisfaction out of your flocks by hand feeding them; it helps to keep you in closer touch with your birds. Automatic feeders are excellent as labor savers. The cost of feeding will be practically the same whether you hand feed or use automatic feeders. We like to use feeders because they save time and labor and we have to depend on help to do the feeding. The feeders insure more regular feeding and are practically fool proof; as long as feeders are kept filled and working the hens are well fed. You will find advertisements of good feeders in this issue.

Beginner's Chicks.

Q. (1) Will you please explain a safe method for a beginner to use in raising baby chicks? Not the feeding in particular, but the brooder's and necessary equipment.

A. (1) Get a copy of "How to Raise Chicks," which our Chicago Office will supply at 75 cents per copy postpaid.

Q. (2) Expect to start with 1000 in April and never operated any brooder. Should I get a coal burning brooder stove or would it be best to buy several small brooders. Which would cost the most?

A. (2) You can use small outdoor brooders in April. The best ones cost about \$15 or \$16 each. You would need one brooder for each 50 chicks. A good coal burning brooder stove would cost you from \$20 to \$30 and for 1000 chicks you would need at least two of them. You would have to house the stoves. A 10x10-ft. portable house, suitable for use with a coal burning brooder stove will cost you about \$35 delivered. In operation of either stoves or brooders, be guided by manufacturer's directions. In AMERICAN POULTRY JOURNAL for February, 1916, you will find a good article on "Using Coal Burning Colony Brooders"; also an article on "Rearing Chickens with Hen or Brooder." Look them up.

Q. (3) In using an indoor brooder are the chicks fed in the brooder?

A. (3) We feed them just out of hover at first. Later, when they have learned to use brooder, we feed in the exercise run.

Q. (4) Should the room in which brooder is operated be heated?

A. (4) Not necessary in April as a rule. We like to have it at a temperature of about 60.

Q. (5) Will baby chicks of White Rocks and White Leghorns be all right together for a short time?

West Austintown, O. W. S. F.

A. (5) It is best to brood them separately.

Mating—Pullets' Weight—Animal Food.

Q. (1) I have a cock "A" and a hen "B". From them I have a cockerel "C" and pullets "D". To establish my line from the hen "B", what method would be best; use "B" and "D" with "A" or mate with "C"?

A. (1) If the "A" plus "B" mating has given you good results would continue it and give "A" a few of his best daughters "D" also. Take best cockerel "C" and mate with a few pullets "D" most like their dam. The following season try "C" on his own dam. As long as a mating is giving good results, don't

Increase Your Egg Production 50%

Decrease Cost of Feeding Your Flock 30%

Get the Facts About Our Grain Sprouter. Learn What It Has Done for Your Brother Poultry Raisers and What We Guarantee It for You

MAKE three bushels of fresh, green, tempting feed from one bushel of oats, wheat or rye. Turn loafing hens into money-making egg producers—have eggs to sell when prices are highest—get fertile eggs for spring hatching—all at a big saving in feed cost. Every poultry raiser should have a "Successful" Sprouter. Saves its cost in a few days' feeding and then keeps on saving money and doubling up your profits for a lifetime service.

Just what's needed in fall and winter to keep hens laying and needed again in the spring to make chicks grow into lively profit-producing birds. Write at once for complete 1917 offer. Sold on trial and pays for itself before trial runs out.

"SUCCESSFUL"

Grain Sprouter

Practically All Steel

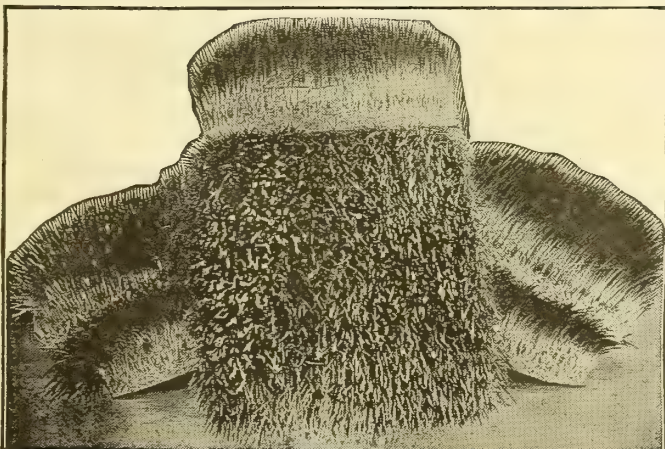
—Made in Sections

Double steel walls—metal trays. There is nothing else like the "Successful" Sprouter. It's a brand new idea. Cannot be compared to wooden sprouters. It is warp proof—shrink proof—swell proof—nothing in it to rot—food cannot mold.

Made with glass doors. Each section a separate compartment. Start with just enough sections for your needs and add more as you need them.

Here is a money maker that proves its worth right at the

20 pounds raw (3 pecks) oats as shown above makes 70 pounds of Sprouted oats as shown below in the "Successful" Sprouter. This in one week's time—the best green egg-making feed obtainable.



SPROUTED OATS



Read These Letters From Owners

Brandon, Vt., March 18th, 1916
Des Moines Incubator Co.

I wish to state that the oat sprouter I purchased from you some time ago is one of the best investments I ever made. It works to perfection and its operation is very simple. The sprouter has furnished my poultry with an abundance of green oats throughout the winter. J. S. Thompson

Is All We Claim For It and Then It Is "Some More"

Madrid, N. Y., May 23rd, 1916
Des Moines Incubator Co.

Last February I ordered a No. 4 Sprouter from your Company and has been in steady use since we received it and we still intend running it longer. It is all you claim for it and then it is "some more." In fact we are well satisfied with it. It is so handy to operate and has nothing to get out of order. I can and will recommend the Des Moines Sprouter for cheap Green Feed for Hens. Ray E. Henry.

start. It has increased egg yields 50 per cent—in some localities more. Takes only 15 minutes a day of your time. Sprouts oats in 24 hours and then grows an inch of crisp green sprouts every day. One feeding of sprouted oats at noon each day is all that's needed to increase the egg yield. And at the same time you cut your feed cost one-third and settle your green feed problem once and for all. Write for full details.

Write Your Name in the Coupon or on a Postal and Mail Today for Circular and 1917 Offer

We could show you scores of more letters like these, but why not show you the "Successful" Sprouter itself and let you see how it can save money and make money for you every day you use it. Famous booklet, "Proper Care and Feeding of Little Chicks, Ducks, Geese and Turkeys," 10 cents.

Write Today

Des Moines Incubator Co.
561 Third Street
Des Moines Iowa

Des Moines Incubator Company
561 Third St.
Des Moines, Ia.

Please send me circulars and your 1917 offer on the "Successful" Grain Sprouter.

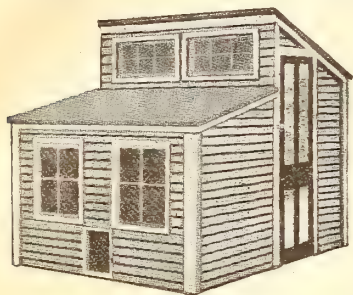
Name _____

Address _____

City _____ State _____

Perfection Portable Poultry Houses

Have Solved the Housing Problem



Thousands of Poultry Raisers have become successful thru the use of these houses.

Write for our illustrated catalog. It will tell you all about Perfection Houses and why we can sell you a high grade house at a price considerably less than you can afford to build one.

Owing to the tremendous increase in our business, it was necessary for us to build a larger factory; same has just been completed and we are now in our new quarters, 4028 North California Avenue and in a position to handle orders quickly and ship promptly.

Enclose postage for catalog.

Perfection Portable Poultry House Company

4028 North California Avenue

Telephone Albany 3833 CHICAGO, ILL.
(In no way connected with any other Co.)

Don't Trapnest

Use My System

Gives daily record of 1 to 1000 hens. Save time, labor and expense. No worry. No risks. Use ordinary nests. Fully guaranteed. Tested 100 per cent efficient at Manitoba Agricultural College.

Postpaid \$2.00; your only expense.

R. R. HUGHES, Charleswood, Man., Can.



Licecil
Kills Lice

Concentrated
1 Bottle makes 1 Gal.

An Insecticide, Disinfectant and Deodorizer

for use about poultry houses, coops and out buildings. A folder, telling of many uses of LICECIL, is yours for the asking.

Bottle 50c; 3 for \$1.25 in U. S.

METZGER MFG. CO. Box 25, QUINCY, ILLINOIS

\$10.00 Now Buys a Red Sussex Cockerel

that will cost you \$25.00 in January.

RED SUSSEX FARM ST. CLAIR, MICH.

WINNERS AT BOSTON 1916 BARRED ROCKS and S. C. REDS

A few choice cockerels and pullets. They will please you.

BEAR BROOK FARM WAKEFIELD, MASS.

break it up. Trap nest your breeders and keep a record of the chicks so that you will know where your best ones come from.

Q. (2) What is the trouble, or do I expect too much, when my pullets of either heavy or egg breeds fall short of standard weight by one or two pounds at 6 or 7 months old, even tho healthy and laying?

A. (2) Would hardly expect them to make Standard weight until 8 to 10 months old. Probably size of parent stock and your method of feeding has much to do with lack in weight. Barred Rocks are apt to run a little under the Standard weights.

Q. (3) I have an Ancona pullet, age 6½ months, comb large and red, shape fine, appearance of laying body, well spread pelvic bones. She has been just like this for two months, singing every day but has not laid an egg. Will she be any good at all or is she a freak?

A. (3) Possibly she is laying in run or on range where eggs may be hidden or eaten. Would watch her for a few weeks longer before passing judgment on her.

Q. (4) I have no milk to use and want to know if calf meal, or milk mash, would help to grow chicks quickly to good size? Also, how fed? I find many questions answered in your columns every month and wish to thank you for the many times you have helped me.

Gardena, Cal. J. S. B.

A. (4) Either calf meal or milk mash should give good results. Feed according to manufacturer's instructions, which they will furnish on application. Personally, we prefer to use a good beef scrap and good fish scrap for growing chicks or adult fowls.

Don't Eat Mash.

Q. (1) I am feeding the Cornell formulas to my laying hens and young stock. I have several of the 8 qt. Norwich automatic feeders and Boston mash hoppers. I have been unable to get good results from my hens. They do not eat their dry mash well, but seem to depend almost wholly upon the scratch grain in the automatic feeders for their living. This, of course, does not give them any animal food and in fact the dry mash might just as well have been taken away and the hoppers used for beef scrap alone. I know you use feeders and hoppers and perhaps you have some system which is quite satisfactory. These feeders are very dependable and save a great deal of time and if I can get satisfactory results I will use them.

A. (1) Believe that the fault is chiefly with the mash. It probably is not sufficiently palatable. Try a mash made of best cut clover, 50 pounds; bran, middlings, corn meal, ground oats, gluten feed and best fine beef scrap, each 100 pounds. For a few weeks regulate the

Poultry Fence



27c.
A ROD

Made of Open Hearth heavily galvanized steel wire. Strong, durable, closely woven. Requires fewer posts no base board or top rail. Not a flimsy netting but a Poultry Fence. Sold direct to user. Write for free Catalog showing many styles of Poultry, Farm, Lawn Fence and Metal fence posts.

KITSELMAN BROTHERS
Box 295 MUNCIE, INDIANA.



A Real Necessity About Poultry Yards and Buildings.

INEXPENSIVE. EFFICIENT. UNIFORM.

EASY TO USE.

KRESO DIP No. 1

will put an end to LICE and MITES; stop loss from contagious disease; CLEANSE, PURIFY AND DEODORIZE.

One Gallon Makes 100 Gallons

of disinfectant solution ready for immediate use.

Spray or sprinkle it about the poultry buildings and runs. Put a little in the drinking water. Dip the birds if they are badly infested with lice.

This is the best possible means of insuring the health and thrift of your flock.

Make all live stock quarters sanitary by using it to prevent contagious diseases.

Scientific tests on live hogs prove that a 2½% dilution of KRESO DIP NO. 1 will kill the most virulent HOG CHOLERA VIRUS in 5 minutes by contact.

Write for free booklets telling how to prevent common animal diseases.

Buy Kreso Dip No. 1 in original packages from your druggist.

PARKE, DAVIS & CO.

Dept. of Animal Industry.

DETROIT MICHIGAN



RAISE the best broilers and roasters in shortest possible time at least expense, for your table or the market. It is a simple matter to put one-third increased weight on birds in twelve days with the ordinary feed by mixing

BLATCHFORD'S MILK MASH

Ask us for leaflet and nearest dealer

Blatchford Calf Meal Factory
Waukegan Dept. A Illinois

MONEY IN HONEY Bees Pay Easy, interesting work. Latest Methods of bee-keeping told in 24 page "Bee Primer." Send 25c for new 3 months subscription, primer, and bee catalogs to **AMERICAN BEE JOURNAL**, Box 28, Hamilton, Ill.

feeders at night so that they will feed very slowly and do not open them to feed freely until about 11 o'clock in the morning. Keep mash hoppers open and for a week or two remove the gratings in mash hoppers. Hens will not use the Boston hopper freely if they have to reach too far thru the grating for the mash. Regulate your mash hoppers so that the mash is easily accessible.

Q. (2) Would a plant using Barred Rocks for winter laying and disposing of old stock during the spring when prices are high, prove up well, handling from 500 to 1000 Rock pullets from September to May?

A. (2) It should.

Q. (3) Do you get a good yield from American class varieties in those months?

A. (3) Yes.

Q. (4) I have always found American breeds easier to rear while quite young than the Leghorns and the meat produced from them is a much greater amount than with the Leghorns. What breeds do you prefer for a plant for eggs and market poultry combined?

Leroy, Ohio. F. W. D.

A. (4) On our farm we are giving preference to White Rocks and Langshans, but carry a house full of White Leghorns also. We were carrying nine varieties, chiefly for experimental purposes and thought we would try to get down to one variety only. We can't make up our mind to discard the White Rocks and we are very much pleased with the Black Langshans. The Leghorns are easily grown, lay well, and their eggs sell well, altho this is a brown egg market, but we cannot in this market get as satisfactory returns for Leghorn stock when thru with them in the laying pens. As pullets and yearlings the several varieties prove about equal as egg producers. In the third laying season the Leghorns have a little the best of it in egg production. There is little difference in cost of feeding, not nearly as much in practical experience as is shown in egg contest records. Were we about to stock a farm for eggs and market poultry, we should consider Rocks, Reds, Black Langshans and a good laying strain of Light Brahmas. The Blacks go a little slow at first as market poultry, on account of prejudice against black legs and white skin, but once customers try them they come back for more of the same kind. Personally, we prefer a heavy fowl that will stand forced feeding for rapid growth and forcing for eggs, and, with us the greatest demand is for big brown eggs. The four breeds named have never failed to "deliver the goods" for us. The ease in handling and yarding heavy fowl is also a big point scored in their favor. To a large extent you will need to be guided by local conditions and local demand in choice of a breed. In our own experience with many varieties we have really found but little difference in the productiveness of different breeds, provided you get the right sort at the start and handle them properly. We get good big eggs and plenty of them from our Leghorns and as broilers they are excellent, but for roasters and fowl for home table and local markets they are not in it with the heavier breeds.

White and Partridge Rocks

Eggs for hatching from World's Fair and Chicago winners. Prices reasonable. Write at once.
P. J. OLLE - Route 4 - RACINE, WIS.



Five good reasons for investigating

Blue Hen Mammoth Incubators

FIRST

They Require So Little Time to Operate

You need take only **3 to 5 minutes** a day to operate a medium size Blue Hen Mammoth as against **1 to 3 hours** a day for operating other mammoth incubators of the same capacity.

SECOND

The Blue Hen Automatic Egg Turner

Turns every egg thruout a Blue Hen Mammoth up to 10,000-egg capacity in **5 seconds**; slightly longer for larger sizes. Greatest time, labor and money-saving feature ever put on a mammoth incubator.

THIRD

Large Capacity in Little Space

Into same space required for 3,000 capacity Single Deck of other makes, you can install either a 4,000 Blue Hen Single Deck or an 8,000 Blue Hen Double Deck, using but one heater.

FOURTH

You Don't Have to "Sit up Nights"

The heat, warm fresh air, and moisture—at exactly the proper temperature for each compartment—are furnished **automatically**—without attention on your part—in every Blue Hen Mammoth.

FIFTH

Easy to Start and Easy to Increase

You can start "small" with a Blue Hen, and then put on additional sections later on, when you wish to increase your capacity. Any handy man can quickly set up a Blue Hen.

Send for 1917 Catalog, Now Ready.

DEALERS and farmer-agents can secure exceptional opportunity to represent us in unoccupied territory. Easy sales and good profits

assured on Blue Hen Mammoth Incubators, Blue Hen Lamp Incubators and the **Blue Hen Colony Brooder**

On Blue Hen Colony Brooders alone, the sales by dealers and farmer-agents have been astounding.

Men without selling experience and dealers who never

before sold brooders, have easily made many profitable sales by showing the Blue Hen Catalog to practical poultrymen.

\$14.50

\$15.50 West of Mississippi River



Shows HOVER RAISED

Curtain removed

Broods up to 750 chicks

Better than ever with the 1917 additions and improvements.

Yet sold at the same low price, possible only by increased demand and larger production.

Watson Manufacturing Co.

Drawer 21

LANCASTER, PA.

Now is the time to get the facts—to investigate our selling proposition. The wide-awake man will get the choice territory and the big sales.

\$19.50 for 1000-Chick Size. \$1.00 More West of Mississippi R.

Royal Blue Orpingtons Black Orpingtons and Speckled Sussex

Winners at Madison Square, New York, Chicago Coliseum, Milwaukee, Greater Chicago, Indianapolis—not years ago, but the season just passed. Our Blues have been the big winners at Chicago Coliseum for two years. We have a fine lot of old and young stock in these varieties to sell—the kind that will help you win highest honors whatever the competition; birds with type, size, superior color, vigor. Write us to day; it will pay you.

RAU & FRY, HAWTHORNE POULTRY FARM

Grand Hotel

Indianapolis, Indiana

FOREST HILL Poultry Farms

Quality White Plymouth Rocks

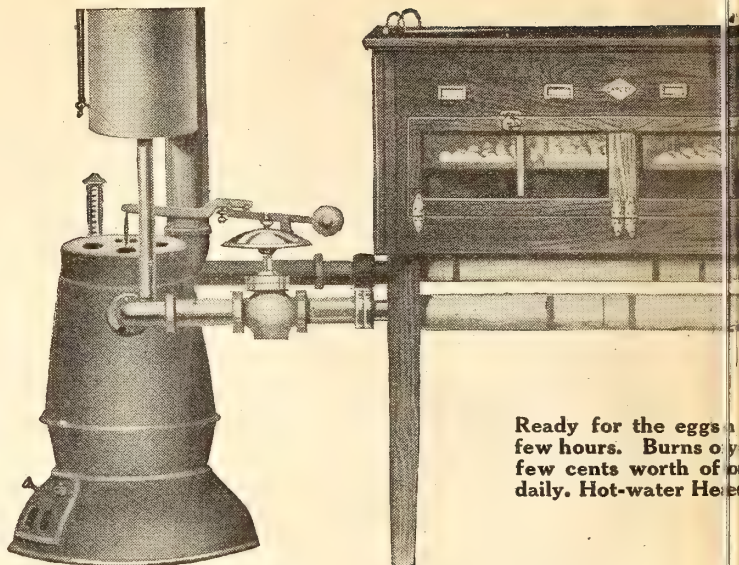
Special bargains in Cocks and Cockerels—write me your wants. We can supply them. Winners wherever shown. Satisfaction guaranteed. **ALBERT G. SPAHR, Box 1240, XENIA, OHIO**

GARNET GRANGE POULTRY YARDS, Breeders of

Barker's R. C. Rhode Island Reds

Winners at 1916 Indiana State Fair.

Fred W. Barker, Westfield, Ind.



Ready for the eggs a few hours. Burns only a few cents worth of oil daily. Hot-water Heat

You Can Make Money Three Ways With a CANDEE Incubator

*Hatch and Sell Day-old Chicks
Hatch Your Neighbors' Eggs
Hatch Your Own Eggs*

The same as H. L. Holsinger, Manager of the Summitt Poultry Farm, Ridgely, Maryland, who started with a 3,000-egg Candee and enlarged his machine each year as his business grew until he now has 25,000-egg capacity. Read his letter:

"Gentlemen:

"In the spring of 1912 we installed our first Candee Incubator with capacity of 3,000 eggs. It proved entirely satisfactory and in an actual test in our own cellar, we proved that eggs could be hatched in it at one-fifth of the cost of hatching them in lamp machines.

"With the first installation we started custom hatching and the baby chick business; and catering to the baby chick trade, we found it necessary to increase our capacity each succeeding year, until now we have a capacity of 25,000 eggs each setting.

Refused Orders for 10,000 Eggs Custom Hatching

"Never has there been a year but that we would be forced to refuse orders for custom hatching. During one week of last year a record was kept for one week of the eggs refused, and they amounted to nearly 10,000. This

year we hatched eggs for 100 different customers, and could have hatched many more had our capacity been sufficiently large.

"We also have observed that the demand for Candee-hatched chicks is a growing demand. This year all our chicks were sold far in advance of the dates of their hatching, and our only regret has been that our capacity was not many times larger.

One Order for 65,000 Baby Chicks

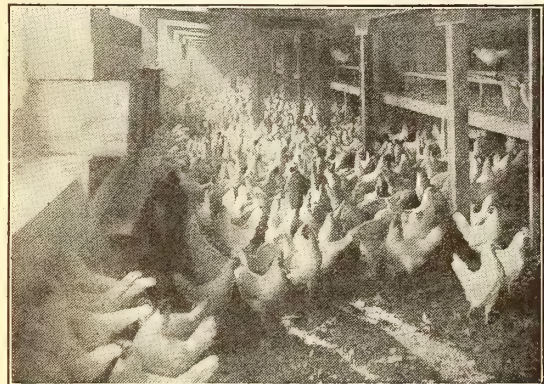
"We refused to enter into agreement to furnish all the chicks we could hatch up to the amount of 200,000, but at the same time partially agreed to supply one individual with 65,000 the coming season.

"When it is considered that these large orders were secured from the customers who have tested the chicks for appearance and vitality, the Candee Incubator cannot be praised too highly, for without it, notwithstanding the vitality in our matured stock, we would have been unable to produce chicks in quantities and chicks to give our customers good satisfaction."

**H. L. Holsinger, Mgr.,
Summitt Poultry Farm,
Ridgely, Md.**

Many other operators of Candee Incubators have built up big businesses, are prosperous and report that they cannot meet the demand for Candee-hatched chicks.

This proves that the hatching business is uncrowded and that there is a money-making opportunity in this business for you.



Picture of some of the vigorous White Leghorns of the Summitt Poultry Farm

Unchanged After Not An Experiment

You will be taking absolutely no chance in hatching with a Candee Incubator, because it is being unchanged in principles of operation of small and large poultry plants, and Experiment Stations in every part of the country. The Candee was right at the start. Incubator Investment.

Automatic Regulator at Each Section
The automatic regulator at each Candee section compels a constant, correct heat, because it automatically shuts off the hot water when the temperature cannot overheat in the Candee and big hatchery.

Automatic Regulator at the Hatchery
There is also an automatic regulator at the hatchery which regulates the temperature of the water in the hatchery.

No Raising or Lowering of Temperature
As it is unnecessary to raise and lower the temperature, all this labor is saved with the automatic stationary trays of the Candee give a roomy compartment.

Start Hatches at Different Times
The automatic regulator at each Candee section starts hatches at different times, as the operation of one section does not interfere with the operation of any other compartment.

Save Expense of Factory Moving
When you install the Candee you will not have to move the machine from the factory to put the machine together in a "knocked down" incubator or one that has been put in a factory. The Candee is shipped in all-built 600-egg sections with partitions installed at the factory. It is an easy matter to set up the Candee section in your own hatchery and save money and delay.

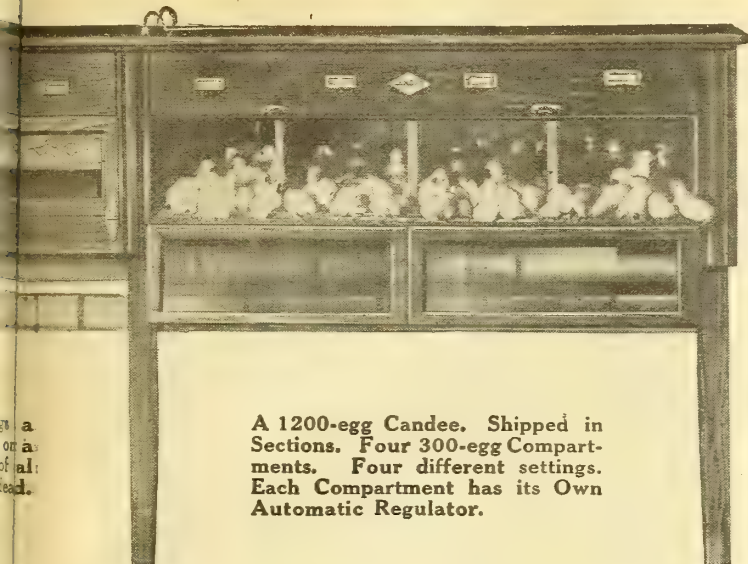
Add More Sections at Any Time
With the Candee you will be able to increase your capacity by simply adding more 600-egg sections when you install a Candee.

Write Your Own Money-Back Guarantee
The only real guarantee is the one that you can give when you attach the guarantees they want to see.

Write today for your copy of the big book of many successful, money-making pictures of the prominent Colleges and Institutions regarding the help these Institutions obtain by installing the coal-burning, self-regulating and the Candee Hot Water Brooding

W. A. SCHLEIT MFG. CO.

Licensors of Candee Incubators



A 1200-egg Candee. Shipped in Sections. Four 300-egg Compartments. Four different settings. Each Compartment has its Own Automatic Regulator.



The Experts Endorse the CANDEE Incubator

Capacity 1200 Eggs and Larger

Here are some of the letters that have been written by Poultry Experts who heartily endorse the Candee Incubator because they have found that it hatches the largest possible number of healthy chicks, is safe and sure in its results and saves much time and labor:

Years of Use But Safe and Sure

chances with your eggs when you use the Candee is not an experiment, after years of use on thousands by all the prominent State Colleges of this country and Canada. It is right now and is the one safe

Compartment

regulates the flow of hot water into the compartment. This means that the eggs of chicks that live.

Heater

Candee heater that controls the drafts and regulating system.

Trays

Trays of the Candee to give the eggs the correct temperature regulator at each compartment. And the nursery for the chicks in the bottom of each

es

Compartment makes it possible to start hatches at any time without interfering in any way with the

anics

to pay the salary and expenses of a mechanic in your cellar, which would be necessary if you had a sectional in construction.

Sections, each section having all its pipes and connections on the legs, and you can install the Candee

e

the size of your incubator as your business grows. You cannot lose on your original investment

Guarantee

Write yourself. We invite all buyers to do this for orders.

See Candee Catalog that contains pictures of plants and hatcheries, together with information on Experiment Stations and poultry raisers. Also describes and illustrates Colony Brooder for up to 500 chicks, etc.

Inc., Dept. 2, Eastwood, N. Y.

Incubator & Brooder Co.

MISSOURI EXPERIMENT STATION MOUNTAIN GROVE, MO.

"We have had splendid success with our Candee Incubator and Candee System of Brooding. We average about 85 per cent hatches of the fertile eggs, and that is all that could be expected of any machine. The brooding system develops strong, vigorous chicks."

Prof. T. E. Quisenberry,
Formerly Director of Missouri Experiment Station, Mountain Grove, Mo.

NEW JERSEY AGRICULTURE EXPERIMENT STATION, NEW BRUNSWICK, NEW JERSEY.

"The special feature which appeals to us is the dual temperature control of the Candee. The regulation of the water in the system is so accurately controlled that it rarely varies from 3 to 4 degrees in twenty-four hours. In addition we find that the thermostatic control in each section acts as a double insurance against the possibility of a variable temperature. This dual system of regulation also maintains a very uniform and constant temperature in all sections. The ventilation system seems to work admirably, and we have no trouble in getting the machine to sweat during the hatch."

Prof. H. R. Lewis, Poultry Husbandman.

THE OHIO STATE UNIVERSITY, COLUMBUS, OHIO.

"During the past three years we have used a 1200-egg Candee Incubator and also a Candee Brooding System with gratifying results."

Prof. F. S. Jacoby.

The students at these Colleges carry on all kinds of experiments with the Candee and yet it gives them fine hatches.

The Candee is the Incubator for the beginner, because it is so simple in construction and operation, and because the regulator at each 300-egg compartment automatically stops the flow of the hot water into the compartment when the temperature is right, so that the eggs cannot overheat.

UNIVERSITY OF MAINE, COLLEGE OF AGRICULTURE, ORONO, ME.

"This institution installed last year a Candee 2400-egg Mammoth Incubator and used the same this year to incubate all our eggs. The machine gave satisfaction in every way, and throughout the hatching period, which was from March 15th to May 1st, the temperature did not vary to any extent, although the outside weather conditions were very variable, as during that period we had some severe cold weather and one or two wind storms that made the temperature of the Incubator room much lower than normal. The two Candee coal brooders that we purchased gave satisfaction, and with them we brooded upward of 750 chicks. We had no difficulty in keeping the fires going under all conditions. We are very well satisfied with the Candee equipment."

Prof. E. N. Boland, Poultry Husbandman.

THE UNIVERSITY OF WISCONSIN, MADISON, WIS.

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Prof. J. G. Halpin, Poultry Husbandman.



Bird's-eye view of Poultry Department of New Jersey Agricultural Experiment Station, New Brunswick, N. J.



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Picture of some of the vigorous White Leghorns of the Summit Poultry Farm

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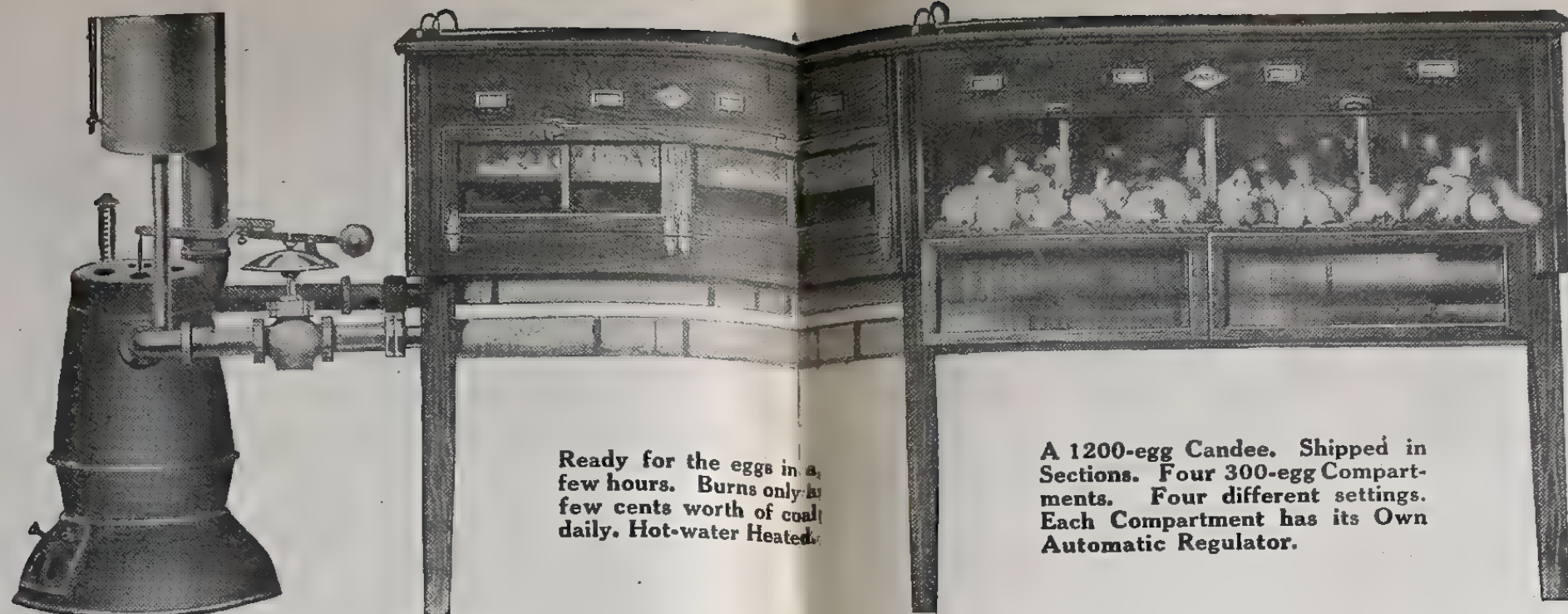
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Ready for the eggs in a few hours. Burns only a few cents worth of coal daily. Hot-water Heated.

A 1200-egg Candee. Shipped in Sections. Four 300-egg Compartments. Four different settings. Each Compartment has its Own Automatic Regulator.

Unchanged After Years of Use Not An Experiment, But Safe and Sure

You will be taking absolutely no chances with your eggs when you hatch with a Candee Incubator, because the Candee is not an experiment, being unchanged in principles of operation after years of use on thousands of small and large poultry plants, and by all the prominent State Colleges and Experiment Stations in every part of this country and Canada.

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Automatic Regulator at Each Compartment

compels a constant, correct heat, because it regulates the flow of hot water into the compartment, shutting off the hot water when the temperature is right. This means that the eggs cannot overheat in the Candee and big hatches of chicks that live.

Automatic Regulator at the Heater

There is also an automatic regulator at the Candee heater that controls the drafts and regulates the temperature of the water in the heating system.

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As it is unnecessary to raise and lower the trays of the Candee to give the eggs the correct heat, all this labor is saved with the automatic regulator at each compartment. And the stationary trays of the Candee give a roomy nursery for the chicks in the bottom of each compartment.

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Save Expense of Factory Mechanics

When you install the Candee you will not have to pay the salary and expenses of a mechanic from the factory to put the machine together in your cellar, which would be necessary if you put in a "knocked down" incubator or one that is not truly sectional in construction. The Candee is shipped in all-built 600-egg sections, each section having all its pipes and partitions installed at the factory. It is an easy matter to set up the Candee sections on the legs, and you can install the Candee yourself and save money and delay.

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SEX CONTROL IN POULTRY BREEDING

(Continued from Page 1191)

What is going to happen to his flock, if he is limited in his choice to a few males, while his neighbor, and competitor has large numbers to discard in his weeding out process of selecting his breeders?

Yours truly,
GLEN MCWILLIAMS,
Des Moines, Iowa."

Upon receipt of this letter, I wrote Mr. McWilliams, asking him what he would do with a flock whose progeny were all males, and he wrote:

"Nature's way is to produce about equal numbers of males and females. The breeder who limits the sex to either males or females heads his strain toward oblivion (as regards any improvement in the strain) to just the extent that he limits the sex."

In the first place, no one has yet attempted to alter Nature's way, but a very strenuous effort has been made to find out just what that way is, and apparently it is for one female to go thru life producing mostly males, while another goes thru life producing mostly females, and still others from a more or less indifferent, or careless line of breeding be-

hind them produce sometimes one sex, sometimes another sex, and then some of the more persistent ones will also transmit to their progeny the traits they themselves have carried thru life.

If it is going to oblivion for any strains bred along these lines, it is somewhat strange that we have not all arrived at that point before now, for positively all forms of live stock have been bred along these same lines since men began to domesticate wild animals.

Finding the method by which sex producing traits have been inherited in the past, simply enables the breeder to make an intelligent choice in selecting his specimens, we can choose between the female or the son of the female, that produces mostly males, on one hand, or the female that produces mostly females, on the other, and it is obvious that a large number of careless breeders will prefer to choose the female that they know nothing about, as she will be for sale for the least money.

The breeder who knows just what a particular line of blood, has been doing will probably be inclined to ask more for the female that will produce mostly females, and also more for her few sons, than for the female he knows is giving him mostly males, and many breeders will sell the all-male producer, with a statement that they know nothing about

her performance, and in this matter the purchaser of dairy stock will have a great protection in his registered pedigrees, that will reveal the all-male producing female unerringly.

Now all improvement does *not* come thru selection, corn breeders have frequently asserted that greater improvement was secured by *isolation* of a few plants from the same ear, than from all the selection that could be brought to bear, thus the seed of a medium ear will produce a better crop of corn than the selected best seeds or seed from the selected best ears from a large field, and in this segregation they are merely forcing the corn to "In-breed"; and the same results have often been noted by live stock breeders, and is readily acknowledged by all breeders who attempt to improve their strains by "Line-breeding," which is segregating.

2nd—"The male is half the pen the first generation." Yes, but he becomes proportionally less, and less, if we mate the son to the dam.

3rd—"We must have quantity in order to do any real selecting for Quality." It is claimed that the Hereford breed of cattle sprang from a single line-bred, white faced bull, that was repeatedly bred to his own mother, then to his own closest female relatives as long as he lived.



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RAU & FRY, Grand Hotel

Hawthorne Poultry Farm,

INDIANAPOLIS, INDIANA

Certainly the Jersey and the Guernsey breeds have not had the advantage of any great numbers from which to make selections, for they are living examples of what has been accomplished, by taking good care of a few individuals and mating close relatives for long periods of time.

As quantity is not necessary to improvement we can limit the number of males very handily, and breed to the few good ones we raise with greater care, because we are not crowded with a lot of poor ones.

And last, having to discard a large number of males one is very likely to discard the best son of his best female, so that the breeder with only a few to bother with will probably run off and leave his too well supplied neighbor so far that the neighbor will never know he was in the competition.

Now let us go together into a flock of 1000 cockerels, all of one strain, and all good ones, line-bred, and generations of good blood behind them, let us carefully go over and handle every likely bird in the flock, till we both agree that we have found the very best and strongest breeding bird in the flock.

You are willing to buy him to place in your flock, he is practically a perfect bird, so let us just glimpse the record

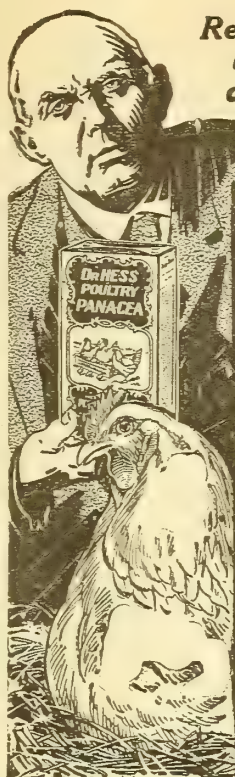


First prize Buff Orpington cock at Illinois State Fair, 1916. Owned by Richard M. Seward, Lewistown, Ill.

that goes with him; his dam produced 50 cockerels, never a pullet, the bird you have selected is $\frac{3}{4}$ the blood of his own sire, and his dam never produced a pullet, in a good bunch of cockerels; now look at this record, know that it stands as a guarantee that if this bird goes into your flock his daughters will never produce a pullet in any flock of 50 chicks.

Will you buy that bird? Without the record he is your choice, but with the record, no one wants him.

The hen that produces 50 cockerels, no pullets, stands just a two to one chance of producing the best looking, best breeding cockerel in any flock, beside the hen that produces 25 chicks of each sex, and just 50 to one with the hen that gives 50 chicks, all pullets but one. So in simply selecting the best looking bird in a flock of even one thousand birds, we stand a reasonably good chance of securing the son of a hen that is producing all males, then if we breed this fellow to his own daughters, his finest son will very likely be the son of a daughter whose inherited characters are very closely similar to those of the male she is bred to, and this gives exactly the outline we have presented above.



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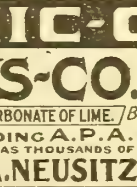
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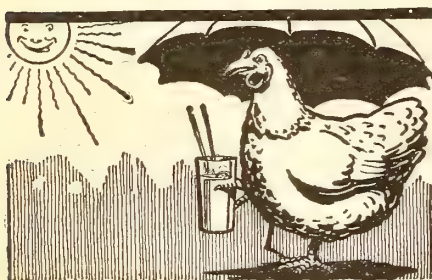
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The Farm Journal

169 Washington Square, Philadelphia

Quite recently my attention was attracted to a magnificent pair of Percheron mares, one of them presented a rather odd appearance, with a very large masculine neck, which required a stallion collar, her hips were very well rounded, and at a first glance she might easily have been mistaken for a stallion, four of her five colts were stallions and all of them fine looking attractive fellows; the other mare wore a collar of normal size for an animal of her weight, she had a very effeminate appearance, tho inclined to show a trifle of flatness over the hips, tho when an arm was thrown across her back her great size became apparent, four of her five colts were mares, but the fifth one was a rather effeminate looking stallion, and this effeminate appearance in males has always been condemned as showing low prepotency, so males of this character are seldom preferred in the breeding yards, and one can hardly avoid the impression that probably many a great sire has been denied a fair opportunity to show his worth, because he was the son of a very powerful breeding dam.

Now if all our live stock has been bred along these lines, what are we going to do? Will we accept the female that is known to produce mostly females, or will we look for the female that is known to produce mostly males, or will we prefer to go forward in the dark with our eyes shut to the truth?

Will intelligent breeders develop a strain of female producers, or will they prefer male producers? Or will they prefer to go on blindly crossing in one line of blood on another indefinitely, without knowing just when they are to meet with an entire herd of bulls, or flock of cockerels?

In the Fifth Chapter of the series was presented a reference to the Guernsey bull, "McDonald's Prince," and his pedigree will furnish a wonderful lesson to those breeders who do not believe in "Line-breeding."

Most breeders care little what is shown back of the fourth generation, and few indeed that are line-breeding ever go further back than that if no close relatives are shown; this bull was never sold as a "Line-bred" bull and it is doubtful if his breeder so considered him; his sire was "Langwater Princeling" and his dam was "Norwood's Makefield," a cow that was not suspicioned to be a relative of "Princeling," and if we take the fourth generation back we find no animal appearing twice, so we would be justified in making this mating, if we were opposed to "Line-breeding," but the bull at the top, "Claremont Westward Ho," was a son of "Loyal of the Hunguets," while the third bull in this list was "May Rose King," sired by "Itchen Jewel," another son of "Loyal of the Hunguets," and the third dam was "Itchen Daisy III.," sired by "May Day," another son of "Loyal of the Hunguets." So much for the ancestry of "Langwater Princeling."

On the side of the dam we find in the fourth generation back, the first dam

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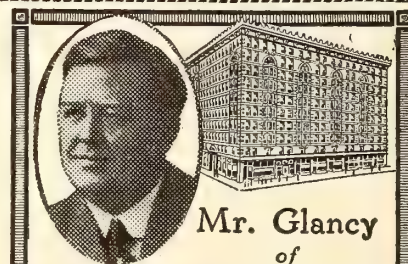
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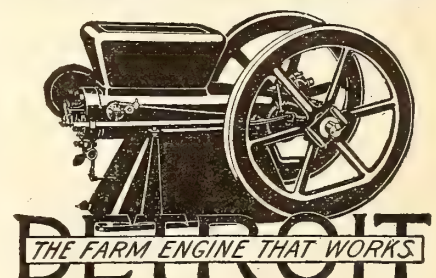
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was "Clatford Gentle," a daughter of "Loyal of the Hunguets," the second sire was "Itchen Jewel," son of "Loyal of the Hunguets," while the second dam was "Itchen Lady," a daughter of "Loyal of the Hunguets," and so the sire and dam of "McDonald's Prince" were very closely similar in their breeding, and yet he would easily present a four generation pedigree and then pass as a cross-bred animal. Now to those who are opposed to the theory of sex control this question can well be put, if "Loyal of the Hunguets" came from a family of female producers, and "McDonald's Prince" has so much of his blood, more than any other animal, will he not be very apt to show it in his daughters?

Such matings as this have been made thousands of times, by men who would never have dared to do it, if they had looked at the generations back of the fourth, and in just this way we are continually bringing to the front the traits and characters of some long forgotten ancestor, and if those traits are undesirable, for any reason, we get them just the same, and if we do not breed in lines that we know are performing in a satisfactory manner, we may bring up one of these ancestors any time, so it really amounts to this: Will breeders follow along lines that are known to produce a majority of the desired sex, or will they risk an unintelligent cross, that may be simply breeding an undesirable line?

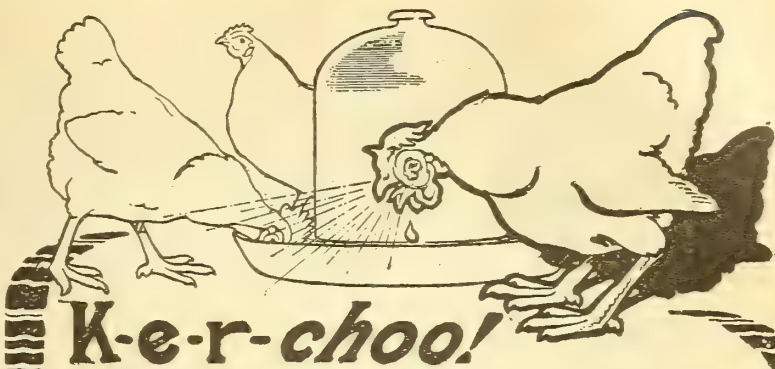
If these conclusions are right, then it was right for me to seek the widest possible publicity for my work; if they are wrong, it should be an easy matter to show the error.

At Detroit, in June, was held what breeders claim was the greatest auction of Holstein cattle the world has ever seen, a certain cow brought \$4,600, the highest price paid for a female at that great sale. When the articles on Sex Control were written, no one knew when any portion would be published, and yet the very next month the AMERICAN POULTRY JOURNAL named that cow, and if her purchaser had read the articles before the sale, the chances are he would not have bid on her, had he kept his money and paid \$4,000 for the opportunity to read that article, he would have still been several hundred dollars better off.

When any breeder can reap a profit of \$4,000 from reading a magazine article the magazine is justified in publishing the article, even tho it requires "considerable space." In the same stable where that cow was raised stood another cow, and if she could have been correctly bred, she would have been worth more than the "Champion" and her two sisters, and all twelve of their bull calves with the one lone heifer they produced thrown in for good measure. The AMERICAN POULTRY JOURNAL is to be honored for presenting this subject to as large a number of breeders as possible at the same time, and the live stock world is to be congratulated on possessing one publication with such men at the head as Mr. Bell and Dr. Woods, and if it lays in their power to make this work of practical value to the live stock world I am certain it will be done.



RAISE BELGIAN HARES FOR US. Big money, stock costs a trifle and we buy all you raise at \$2.00 each; also Cavies, Mink, Skunk, Fox, Squabs, Pheasants, Frogs, etc. Contract, Instruction book, copy of our Pet Stock Magazine for a dime, none free. Address The Belgian Hare, Dept. 3 Holmes Park, Mo.



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YOU will be treating yourself right and serving your own best interests if, before buying White Wyandottes, you write me fully TELLING ME YOUR WANTS. I have by far the finest and largest lot that I ever reared, birds that will be THE WINNERS at America's best shows this Fall and Winter as their ancestors have been for the past twenty-one years.

The World's Greatest Strain. The strain that produces satisfactory results in filling the egg basket, laying as high as 265 eggs a year and the prize winning females are selected from among the layers. Their fine head points, wonderful size and shape, pure white stay-white plumage, broad backs and well spread tails combined with their wonderful laying ability, their power of reproduction and their habit of winning first prizes are the results of twenty-one years of careful, systematic, pedigreed line breeding. The result of my twenty-one years of experience I am offering you at remarkably low prices—quality of birds and breeding considered.

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If you wish to win I can help you. If you wish to breed winners I will mate the birds correctly to produce them. Buy your breeders early. Reserve your show birds NOW for the Fall and Winter shows. All stock shipped on 48 hours approval. New richly illustrated art catalog free for the asking. (5 red stamps appreciated.) SEND FOR IT NOW. It tells the story of my success and may help you to succeed. State wants definitely and address

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My birds this year are simply magnificent. I have never produced so many birds of superb coloring, massive size and correct type. Cannot find words to express my confidence to please the most exacting buyers of Buff Orpingtons for exhibition, breeding and utility, this season. To back this up I offer to pay the express on any stock that is returned as unsatisfactory and will ship C. O. D. if you wish. And don't forget, Satisfaction Strain Buff Orpingtons have been on the firing line for 10 long years and not a dissatisfied customer yet. Catalog free. "The farm with no dissatisfied customers."

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are selling large, stylish, broad backed and heavy boned cockerels at low prices.

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We won all of the *five first ribbons*, all seconds except cock; also third cock and 4th cockerel and best display. On account of Mr. Rawnsley judging the class, we did not exhibit any

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These late winnings added to our great record at Madison Square Garden and Chicago Coliseum, places our birds second to none. If you want quality birds at reasonable prices, write

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Monthly Prize Contest Department

The American Poultry Journal offers the following prizes monthly for the two best articles received on or before the fifteenth day of each month: For the best article, a prize of Three (\$3.00) Dollars will be awarded; for the second best article, a prize of Two (\$2.00) Dollars will be given. Articles intended for the Contest must be written on one side of the paper only and should not contain less than 1,000 nor more than 2,000 words. The articles may be written on any subject pertaining to poultry culture. We reserve the right to retain all articles submitted and to publish such as we deem worthy of space. Send all articles plainly marked to Contest Editor, American Poultry Journal, Lock Box 4, Silver Lake, Mass.



RAISE MORE GUINEAS.

There Should Be More Guineas Raised On Farms.—They are Profitable, Easily Raised, Good Layers and a Most Delicious Food.—First Prize Article American Poultry Journal Monthly Contest.

By BERTHA M. TYSON, Rising Sun, Md.

GUINEA fowl are becoming more and more in demand in the best markets. They are healthy; prolific layers and breeders, easy to raise, great foragers, bring a good price in the market and everywhere acknowledged to be a delicious healthful food. Why are there not more guineas raised on farms?

Each season we produce great flocks of guineas at slight expense, being ideally situated for this purpose on a grain farm. We have kept all varieties, but now only the Pearl and White African. As we allow them absolutely free range, the White African variety is kept on a neighboring farm to prevent the breeds from mixing.

As layers, Guineas are hard to beat. In the wonderful records given of great layers in the egg laying contests, probably none can eclipse the never-miss-a-day record of a guinea hen during her laying season. The eggs are slightly smaller than a hen's egg and beautifully marked with dark brown spots. The flavor is unexcelled. The laying season lasts from April until September. If, however, the eggs are not gathered, the hens become broody after laying a goodly number of eggs. I have known

guinea hens to lay eighty or ninety eggs in one nest and becoming broody attempt to cover that number. The hen usually hollows out a grassy spot on the ground where there is shrubbery, weeds or tall grass to hide it from view. Sometimes, if undiscovered, the laying will continue day after day until the nest is filled, and all about it, with attractively spotted eggs.

When I first began to raise guineas I never attempted to set the hens, but allowed the hen to become broody by not collecting the eggs from her nest, at least only a part of them, but experience no difficulty in setting the guinea mothers now. Each day the egg is removed from her nest until she shows signs of broodiness by remaining on the nest. I then gently remove her and place the eggs in the nest and the hen over them. They sit well and seldom fail to bring out a fine brood. Early in the season I use chicken hens for hatching and brooding guineas so as to keep the guineas laying. After the hay and grain are cut the guinea hens are allowed to hatch and raise their broods and thus late in the season they are not handicapped by tall grass and grain when foraging about.

Naturally Guineas are of a wild nature and many people object to their peculiar call which may be heard at all hours of the day and evening and often during the night, especially if there is any disturbance about the premises. If reared with other poultry, they soon become tame and consequently make much better breeders. They are also more apt to stay about the farm buildings and there is usually not the same difficulty in

S.C. WHITE LEGHORNS

Blue Ribbon Winners

Chicago, 1915-16

Illinois State Fair, 1915-16



1st Cockerel, Ill. State Fair, 1916



1st Pullet, Ill. State Fair, 1916

Better birds than ever, have resulted from my matings this year. If you are looking for birds that have standard type and egg production bred into the bone, come to me and I will sell you birds that have these desired qualifications at a more reasonable price than you can obtain anywhere else. They have won first prizes at Chicago Coliseum, 1915, and also at Greater Chicago Show, 1916. Last month they were returned

Sweepstakes Champions

at the Illinois State Fair, where they won in strong competition: 1st old pen, 1st cock, 1st and 2nd pullet, 1st young pen, 1st, 2nd, 4th hen, 2nd, 4th, 5th cockerel. Write me today. I guarantee satisfaction.

MEADOW LARK FARM

J. W. Taft, Prop. Box 83, Elgin, Ill.

LAYERS

PAYERS

locating nests, as in the case of guineas reared away from other poultry by guinea mothers.

In hatching, the fertility of guinea eggs is a surprise to those who have hatched other kinds of poultry. Practically every egg hatches and when the time comes for the guinea chick to escape from the shell, it fairly jumps out and is ready for business from that time on. They require very little food and should be fed but a little at a time. Small seeds are relished by them, millet seed and finely cracked wheat making a fine food. They should have a constant supply of fresh water. They are very bright and intelligent from the start and soon know their attendant, calling for water if the fountain is empty or food is neglected. They never eat heavily, or scratch out plants, vegetables or grain as do chickens. As soon as freed from their yards after the dew is dried off, if the grass is high, they search for a large share of their living and consume large quantities of bugs, insects and destructive worms. They become valuable aids to the farmer by protecting his crops. They grow rapidly and when half grown closely resemble the Bob White or Quail and are equally as good eating.

The brood coop for young guineas should be placed on a plot of grass that has been cut very short and a little outside run constructed for them. At first they are so small as to be easily lost in the grass, but after a week or ten days old may be allowed on range with their mother.

The sexes are easily determined by the call, that of the female being a two syllable call, interpreted by some as "good luck" and by others as "buck-wheat," while the males use but one syllable, sounding something like "click."

There is always a good demand for guinea broilers, weighing from one and a quarter pounds to two pounds each. The flesh of the White African and Pearl varieties is light golden yellow and very delicious, the only dark meat being the legs and slightly dark under the wings. I consider the meat of these varieties superior to that of any other fowl. It has a fine flavor and is never dry, is equally as good roasted as broiled. They are in constant demand by all first-class hotels and in all reliable markets. They cost less to rear than any other variety of poultry. I have heard objections made to them on account of "their incessant racket," but I have learned to love their cheerful, busy note and would miss it as I would that of the birds' notes, frogs or crickets in the country where we are free from the jarring noise and distraction of the city.

Very little, if any shelter is required for Guineas. If housed at all, the building should be entirely open-front. In mating, I use four hens with one male and find the eggs always fertile. The male is always most attentive to his mates, escorts them to the nest when laying, and keeps close at hand at hatching time. He also assumes his share of responsibility in rearing the young, sometimes fathering four broods at one time and giving the mothers and young Guineas each their share of attention. The little Guineas are most constant in their love for the Guinea mother or foster mother and will continue to follow her about as long as she is about the farm. I have known a mother to bring

YESTERLAID

TRADE MARK REG. U.S. PAT. OFF.

Dusty Town

REG. U.S. PAT. OFF.
Sire has sired over
50 pullets that laid
200 eggs yearly.
Dam 475 egg in 2
consecutive years.



Heavy laying is a character inherited thru the sire. All Yesterlaid sires carry blood lines of hens that have laid 400 to 475 eggs in two years—as high as 261 eggs in one year.

Free range makes a vigorous sire. Yesterlaid cockerels are all range-raised. That is why they pass on to their daughters the character of their mothers—early maturity, heavy laying and long life.

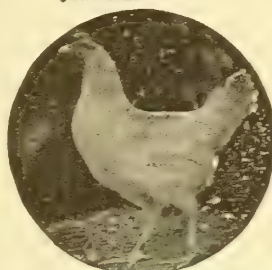
Pullets sired by Yesterlaid cockerels mature early; lay at 4 to 4½ months; and average 200 eggs each, yearly, in flocks of 50 to 100, with reasonable care. And they have the constitutional vigor to withstand long, continuous laying—two, three, four, even five years.

Yesterlaid are made in America; developed in Missouri, U. S. A., by more than a decade of purposeful, intelligent line breeding. They breed true—the blood does not "run out".

We have hundreds of Yesterlaid Breeding Cockerels descended from the same blood line as Lady Laymany, at \$5.00 up. Yesterlaid Egg Farms Co., Dept. 5, Pacific, Mo.

Lady Laymany

REG. U.S. PAT. OFF.
261 eggs as pullet—
214 eggs as two
year old.



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PLAINS, N. J.

As we made all the Orpingtons it is natural that we are recognized headquarters for the best, all varieties. Over 15,000 first prizes won by us. Established 1873, means that for 43 years we have been giving satisfaction, a convincing conclusion where to place your next order.

Send for our new annual CATALOG, giving origination of all the Orpingtons and hints on poultry keeping. Several thousand stock birds for sale. Ornamental land and water fowls for sale.

World's Best S. C. Blk. Minorcas

Canadian National Exhibition, Toronto, and Western Fair, London, are Canada's two greatest fall shows. I won at Toronto September, 1916, 3rd Cock, 1-2-3-4 Hen, 1-2-3-4 Cockerel, 1-2-3-4 Pullet, 1st Pen. At London every 1st, 2nd and 3rd. My cock birds were in full moult. All my winners for sale at reasonable prices. Please send for sale list.

T. A. FAULDS

LONDON, ONTARIO, CANADA

Rhode Island Reds, Both Combs

At the Industrial Exposition and Fair, September 2-9, 1916, Cleveland, Ohio, I won on Single Comb Reds, 4 first and 4 second prizes. At Lorain Co. Fair, Elyria, O., won every first and second prize on both varieties. This in connection with my winnings at the last two big Cleveland Winter Shows, surely will convince you my Reds are as good as the best. If you want quality, write me.

B. M. BILLINGS, ELYRIA, OHIO

MINORCAS Giant S. C. BLACKS

Again prove their superiority. A sweeping victory at Ohio and Indiana State Fairs. Mediterranean special for best pullet in Ohio Show. Buy a \$10.00 cockerel now that would cost you \$20 to \$25 next December. Good breeders \$3 up, from a strain that does win and produce. JOHN L. BROWN, 1515 W. 7th St., Anderson, Ind.

OUR NEW POULTRYMAN'S ACCOUNT BOOK will help you keep a daily record of your flock for one year. Price 25c. American Poultry Journal, 542 S. Dearborn St., Chicago.



Fall Houstonia Sale of Red and Light Sussex

"The Colder the Day the Better they Lay."
America's foremost winners at Madison Square Garden, Chicago Coliseum, Pittsburgh and Buffalo.

Won at New York State Fair, September 11-16, 1916

Red Sussex—1st, 3d cock; 1st, 2d, hen; 1st and 2d cockerel; 1st, 2d and 3d pullet; best display.

Light Sussex—1st cock; 1st and 2d hen; 1st, 2d and 3d ckrl.; 1st, 2d and 3d pullet; best display.

February, March and April hatched birds are up to size; bred from Madison Square Garden and Chicago Coliseum winners and without doubt the finest ever produced.

Bargains in Trios at \$10.00 and Pens at \$15.00 while they last.

Exhibition stock that can win anywhere, at reduced prices. Must make room for May and June hatched chicks. Let us quote you on your needs. Get the best at the best price.

HOUSTONIA POULTRY FARM
Dept. A South Charleston, Ohio

out three separate broods during the season and have all of them about with her. When the mother starts to lay after brooding a flock of young Guineas, the little Guineas follow her to the nest and linger about until she has deposited her egg and is ready to go with them.

In season there is always ready sale for stock and eggs of any of the varieties of Guineas. Any poultry lover with sufficient land and who is within access of the large city markets will find Guinea rearing profitable.

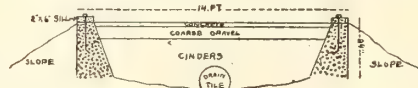
SUCCESS IN HANDLING LAYING HENS.

Record of a Flock of Barred Plymouth Rocks.—Second Prize Article American Poultry Journal Monthly Contest.

By JULIUS L. SCHMIDT, St. Cloud, Minn.

IN THE fall of 1914, I had on hand about 240 Barred Rock layers. After dusting them thoroly for lice and carefully white washing and cleaning the poultry houses they were put into winter quarters.

These pullets had before them at all times a laying mash of my own composition, consisting of two parts wheat bran, one part ground corn, and one



End elevation of poultry house floor.

part each of meal alfalfa and a good grade of beef scrap. There was also a constant supply of crushed oyster shells, ground charcoal and water before them. Floor of coop had a litter of straw about twelve inches deep in which wheat was fed about seven-thirty each morning. At noon they were given table scraps, potato and apple parings, mixed with ground green bone, which I grind myself. This mixture was fed on boards made expressly for the purpose. At



Cross section of floor in laying house.

this time I also gather the eggs and give a light feed of oats in the litter, and after scraping the boards of any left over food, replace them on the wall where they belong. Late in the afternoon I give them a mixture of wheat and barley, again change the water, and gather the remainder of the eggs. Before six o'clock the water is removed from pails and the coops locked for the night. The locking is probably unnecessary, as the windows are muslin and any one wanting chicken could have entered without difficulty. I was not bothered, however.

In January these birds were laying first rate, averaging about ten dozen eggs a day—about a fifty per cent yield. This may not have been anything to talk about, but I seemed to be about the only one in town that was getting eggs, judging from the way customers came flocking to my door. I sold the eggs during this time for forty-five cents per dozen, which was a little in advance of



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All you can seek in swift, silent, capable railroad service is yours on the Alton. Here you meet your railroad ideal.

Frequent trains, a threefold factor of safety, solicitous yet unobtrusive attendants, all combine to make you "at home," whenever or wherever you travel.

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More Comfortable,
Healthful, Convenient

Eliminates the out-door privy, open vault and cess-pool, which are breeding places for germs. Have a warm, sanitary, odorless toilet right in your house. No going out in cold weather. A boon to invalids. Endorsed by State Boards of Health.

ABSOLUTELY ODORLESS

Put It Anywhere In The House
The germs are killed by a chemical process in water in the container, which you empty once a month. Absolutely no odor. No more trouble to empty than ashes. Closet absolutely guaranteed. Write for full description and price.

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Ask about the Ro-San Washstand—Hot and Cold Running Water Without Plumbing

WHITE LEGHORNS

"With The Lay Bred In Them"

FALL SALE—SPECIAL PRICES

Cocks—Were used in our own breeding pens. That's proof they are *right*.
Cockerels—Bred from generations of 200-egg record layers. Healthy, husky hustlers.
Hens—Selected from thousands of pullets because of quality, vigor and performance.
Pullets—Early-hatched, well-grown birds of great promise. All bred for business.

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in ten fadeless colors. The strongest and best made. 25-25c; 50-45c; 100-70c; 250-\$1.50; 500-\$2.75; 1000-\$5.00.

PHITALL ALUMINUM LEG BANDS

with large number buttons. White, blue, red, yellow, green. Sure lock, the best band for trapnest and pedigree work. 12-35c; 25-65c; 50-\$1.20; 100-\$2.15; 250-\$5. Made by M. BAYERDORFFER, Huguenot Park, N.Y.



Have you read the Poultry Doctor?

IF NOT, you should have a copy of this valuable booklet. Thousands of poultry people are following the instructions of the *Poultry Doctor*. This booklet contains sixteen different formulas of remedies for diseases common among fowls. It is yours free of charge. Just drop a postal with name and address to

The Licene Company
1500 Pontiac Bldg. Chicago, Ill.

NOW IS THE TIME for you to place your order for that

"Narrow Bar" Cockerel

A limited number of excellent breeders at \$3.00 to \$5.00 a piece. Grand exhibition cockerels. GRANT STURMAN MT. CARMEL, ILL.

BARRED ROCKS

We have some extra young stock in cockerels and pullets fit to show and win in strong competition. We feel safe in saying the best we ever raised. Write me your wants. G. A. WALKER POLO, ILL.

S. and R. C. WHITE MINORCAS

GOLDEN CAMPINES America's Champions. If you we can furnish you stock at the right prices. Thomas Brogden, Specialty Breeder, Box C, Rush Lake, Wis.

Mention American Poultry Journal when writing to advertisers.

the retail price. I marked all eggs, "sterile eggs—guaranteed less than forty-eight hours old." A local hotel has a standing order with me for a case of thirty dozen a week and the rest I dispose of to private families and occasionally a few to soda fountains.

For the month of January, I got over three thousand eggs—3,682 to be exact. My receipts for what I sold over and above those used at home amounted to \$128.00 for the month of January alone. I cannot say positively just how much the grain fed cost, as I had considerable on hand from the fall before, but as near as I can calculate and placing the rate over high, they did not consume fifty dollars worth of grain, which, if they did, would leave me a net profit of about two dollars and a half per day for my labor, besides a liberal amount of fresh eggs for the family table. February I did as well, and March much better, owing to the fact that I had advertised eggs for hatching from a pen, the sire of which had won wherever shown. From this source I realized more than I had dared to expect. The coming year I hope to run a larger ad.

I have made it a practice to powder thoroly for lice the entire flock, every two weeks, and to remove the old straw from the pens. In two weeks' time I find the straw placed in as litter becomes short and heavy and I am glad to be able to replace it with clean fresh straw before it gets in a filthy condition. I am very fortunate in being able to get the straw for nothing at a farmer's stack next to my place. I also am very careful to change the nesting material once in two weeks or oftener if it becomes soiled. This I consider of great importance in producing first quality table eggs. Of course a dirty egg may be washed, but it never has the same appearance as a clean egg from a clean nest and no other kind should hope to be served upon a clean table. A washed egg not only loses its bloom of freshness, but it renders the shell porous and ready to absorb all odors with which it comes in contact.

My laying house is 14x60, built with double boards over 2x4 in. studding, with tarred felt between. It is 7 ft. 6 in. front by 6 ft. 6 in. back, built with the steep pitch of roof to the south and the long pitch to the north. It sets upon a concrete foundation and has a concrete floor which is absolutely sweat proof.

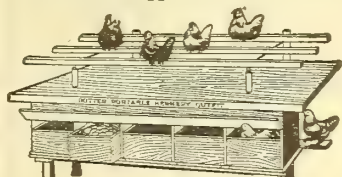
In building this house after the foundation was laid, I excavated to a depth of 2 ft. and laid a line of drain tile thru the center and then filled with cinders, which I procured at the local R. R. yards. On top of this I put a layer of coarse gravel, followed by a coarser layer of concrete. After it was set, I gave the whole thing a coat of tar and let it dry and then put on a finish of more cement. The floor is easy to keep clean, contrary to general opinion. The floor really seemed warm in the winter and did not wear off the birds' toes and I kept plenty of straw on it at all times.

In conclusion let me say I have only a few lots in the suburb of a city of 15,000 inhabitants and only have a little money invested, but am getting fine returns from the money and effort put into it.

Personally I prefer the Barred Plymouth Rock, but every man to his own liking in the matter of breeds. I feel that any one can succeed with poultry if sufficiently interested to put forth the right effort.

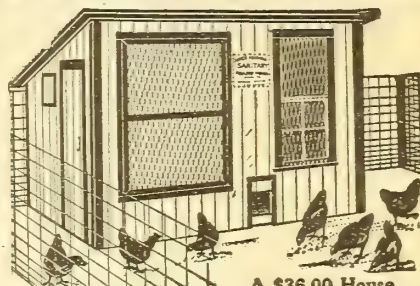
Don't Build—It's Cheaper to Buy Potter "Redybilt" Poultry Houses

Don't build—you can buy better, cheaper (ready built) hen houses, roosting and nesting fixtures, coops, hoppers, etc. We buy No. 1 high grade cypress lumber in carloads, cut and fit all parts perfectly in our big factory and deliver the complete house, coop or fixtures in convenient sections, all ready to be set up better and cheaper than you can build them yourself. Potter Poultry Houses, Roosts, Dropboards, Nests, etc. have been sold for over 10 years. Used by thousands of poultrymen. You start right when you buy them and save money, too. A clean, sanitary hen house means healthy hens and lots of eggs.



A \$6.60 Hennerly Outfit

No. 19, Style "A," 6-foot 3-perch, complete Potter hennerly outfit for 30 hens. This same style made in 12 sizes.



A \$36.00 House

No. 5, Style "D" Potter portable open front fresh air, scratch shed house, equipped with No. 17, Style "A" 3-foot 3-perch complete hennerly outfit for 30 hens. Price of complete house, \$36.00.

Big 112-page Catalog FREE

Shows over 150 pictures of Potter Portable Houses, Coops, Hennerly Outfits, Feed Hoppers, Brooders, Hovers, etc. Send two red stamps to cover postage.

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We Make

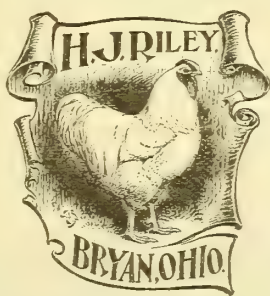
Runways	Portable Henneries
Trap Nests	Fireless Brooders
Brood Coops	Exhibition Coops
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Write for Our Free Catalog of these coops, nests and many other articles. You will save money and get the best.

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Riley's White Wyandottes

are the kind you want. Winners at Chicago, Toledo and Ohio State Fair. They are bred right, they look right and are right. Can please in breeding and exhibition birds. A fine lot of Cockerels and Pullets from \$3 up, also Cocks and Hens for sale. Write your wants and for catalog. Will surprise you in quality and price. Satisfaction guaranteed.

H. J. RILEY

Box A

Bryan, Ohio

Single Comb White Leghorns

Trapnested

"Satisfaction Always"

Range Raised

Memphis Tri-State Show, 1914. 356 in class, won 2, 3 Cock; 1, 2, Hen; 4, Cockerel; 1, 2, 3, Pullet; 3, 5, Pen; Best Display. Again in 1915, 215 in class, won more prizes than any other breeder in class, and Best Display. Arkansas State Fair, Hot Springs, Ark., 1914—won 1, 2, 3, Cock; 1, 2, 3, Hen; 1 Cockerel; 1 Pullet; 1 Pen. Best Display in show. No show held in 1915. Not a bird shown was washed or conditioned. Our best business comes from former customers. See free Catalog and Mating List. Seventh year. Largest farm in State. Completely equipped.

FOURCHE MOUNTAIN POULTRY FARM

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(Cummins Ratcliffe, Owner)

LITTLE ROCK, ARKANSAS

Single Comb White Leghorns

We have purchased the Applegate Poultry Farm, formerly owned by W. B. Tyrrell, Delavan, Wis.

The stock includes QUEEN (263), Basket Bess (260) and several other 200-plus birds. We still have some dandy cockerels at attractive prices for Oct. and Nov. Write for particulars.

TILDEN POULTRY FARM

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For Sale: White Plymouth Rocks from Bella Vista Farms

that won trophy for winning
greatest number of points in
any one class at

PALACE SHOW
New York City, 1915-16

I can sell you
stock just as

GOOD

Write me your wants and
where you expect to exhibit
Exhibition Stock Only

LEWES P. DOERHOEFER
Anchorage, Kentucky

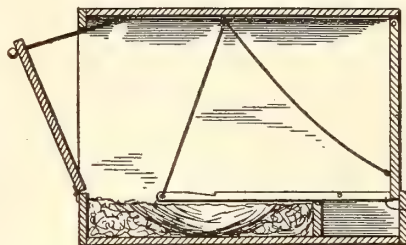
BABY CHICKS; 10 Varieties

400,000 for 1916

CLEVELAND HATCHERY
7916-18 W. Madison Ave. Cleveland, Ohio



WINFIELD S. THOMPSON, of Lewes, Delaware, has devised a novel trap-nest constructed to cause the hen to signal the poultryman after an egg has been laid, by partially opening the exit door. The nest has opposite hinged doors connected by a cord, one of the doors having a cut-out portion. In consequence the opposite door overbalances the other. A pivoted trigger mounted on one side of the nest is arranged to hold the trap door in an open position until the hen enters the nest,

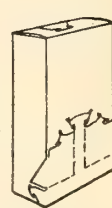
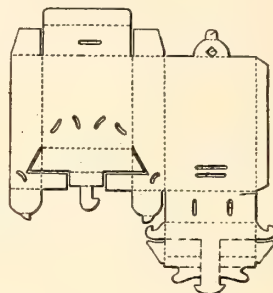


Trap Nest, patented by Winfield S. Thompson, Lewes, Del. Patent No. 1,187,793.

when the door is sprung shut. At the same time it closes the opposite door, to which it is connected by the cord. The hen, as poultrymen know, always seeks after laying to escape from the end of the nest where the light enters. In consequence she pushes against the door having the cut-out portion, causing it to partially open to the extent that the slack in the cord permits. The poultryman can ascertain, at a glance, where a number of these nests are in use, in just which ones the hen is ready for release. The device saves him much time in examining the nests and makes the keeping of an accurate egg record a simple matter. Patent No. 1,187,793.

A Combination-Feed Hopper and Poultry-Food Carton has been devised

by **Walter A. Becker**, North Chattanooga, Tenn. The carton is stamped from a single blank and folded to form a poultry-food carton. By tearing away two flaps along perforated lines, the car-



Combination Feed Hopper and Poultry Food Carton, patented by Walter A. Becker, North Chattanooga, Tenn. Patent No. 1,189,779.

ton is readily converted by the user into a poultry feed hopper. A half interest in the patent is owned by **S. Russell Dow**, Chattanooga, Tenn. Patent No. 1,189,779.

An Incubator-Brooder Combined System has been invented by **Harry Charlesworth** of Mt. Kisco, N. Y. There is a series of brooder compartments, the heat for each of which is supplied from a single heater at one end of the structure. Each unit has independently operating valves and an independent thermo-

CHICAGO 1915-'16
winners



Unretouched Photograph

SAN FRANCISCO
winners

BETTER BARRED PLYMOUTH ROCKS THAN MINE DON'T GROW

THEY have won first prizes at Chicago at the greatest Barred Rock show ever staged. At San Francisco, where the cream of the country was on exhibition, in competition with the world's best, my birds won first and second on cockerel mated pens. In England, Canada, South America, and Cuba, they are winning regularly in the hands of my customers. There's a reason. Years of consistent line breeding for quality of color, type, size and egg production and scientific mating of the breeding pens has made my flock a prize-winning strain that we believe is second to none in reproducing the desired standard qualities.

SHOW BIRDS AT MOST REASONABLE PRICES

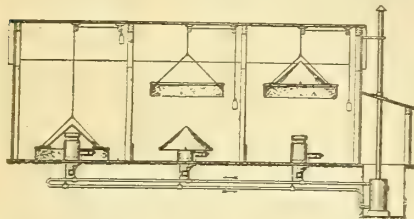
Right now I have over 1,000 youngsters that are positively the best I have ever had. They simply cannot be excelled in type and color for the price I ask for them. I can furnish winners for any show and give quality that cannot be duplicated for the money. A trial order will convince you that I have the goods. Satisfaction guaranteed.

LUTHER J. HALL

Box 7

KENNEY, ILL.

stat for regulating the operation of the valves. Heat may be applied to one compartment and turned off from another, as desired. Each brooder has a hover curtain suspended by a cord that is mounted on pulleys which are fastened to the roof of the brooder chamber.



An Incubator-brooder Combined System, patented by Harry Charlesworth, Mt. Kisco, N. Y. Patent No. 1,197,343.

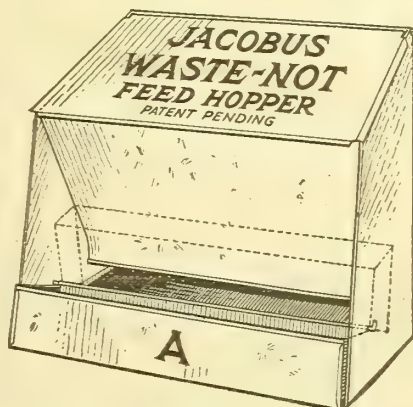
ber. This hover curtain may be raised or lowered at will. The curtain shades the brooder completely when lowered, so that the chicks will remain distributed around the heater instead of crowding into a corner or shady side, as they naturally do when such a curtain is not employed. The device may be transformed into an incubator. The eggs are placed on a pan which is placed in the brooder compartment, the only change in the structure being the addition of an auxiliary curtain, to prevent draughts, and of a pan of moistened sand to supply the moisture necessary in all incubators. Patent No. 1,197,343.

A Combination Egg Testing machine invented by John F. Pfeifle, Youngstown, Ohio, has a funnel-shaped reflector surrounding an incandescent lamp. Above this lamp is arranged an endless belt on which trays of eggs may be placed and passed thru the cabinet within which the lamp is contained. In the upper portion of this cabinet an elliptical eye-piece and lenses are provided thru which the operator may look down upon the eggs as they are moved over the reflected light. By this means it is possible to handle a quantity of eggs rapidly. Patent No. 1,198,477.

Edward J. and Emery T. Boehm, of Neenah, Wis., have jointly invented an egg tester, the novel feature of which is an amber colored sheet of glass arranged between the observer and the eggs as they are passed over the incandescent lamp within the candling cabinet. Inventors claim that altho other colors of glass were tried none gave such distinct views of the contents of the shells as did the amber colored. Patent No. 1,197,335.

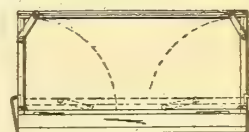
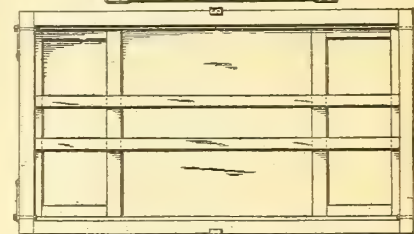
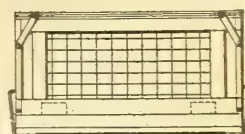
An Egg Packing and Testing Device combined has been devised by Alex L. Anderson and Wm. V. Purdy of Beatrice, Nebraska. It consists of an egg carton having slotted portions above each separate egg compartment. For candling purposes the carton is inverted so that all the eggs in it may be candled simultaneously, then packed away in the crate, without any labor being expended in re-packing because of the candling. Patent No. 1,197,996.

A parkway structure for brooder coops jointly invented by Charlie S. Wiggins and James J. Lanque of Kankakee, Ill., has been patented to the James H. Watson Co. of Bradley, Ill. It is a portable,



The new "Waste-Not" feed hopper invented by M. R. Jacobus, Ridgefield, N. J.

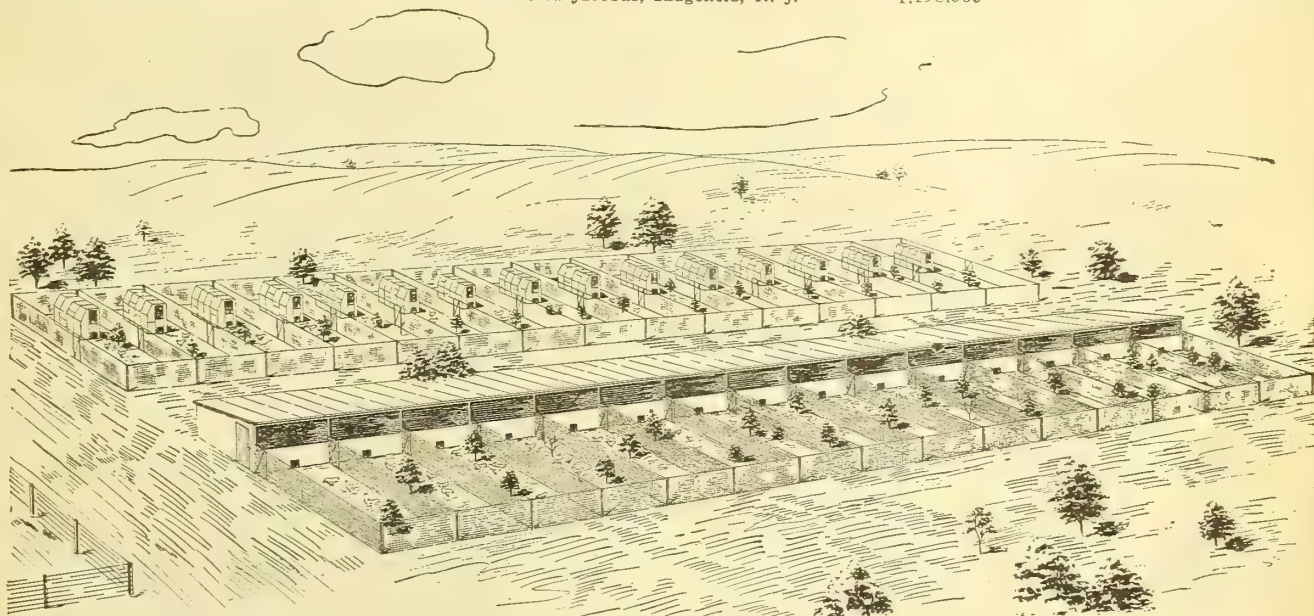
knock-down structure. A novel feature of its construction are ears projecting from the top of the frame and constituting hinge members, within which co-



Collapsible Chicken Crate, patented by Geo. L. Yingling, Winston-Salem, No. Carolina. Patent No. 1,198,305.

operating hinge members attached to the coop engage. This makes it possible to swing the parkway structure from its normal position on the ground to an elevated position resting on top of the coop during the day when it is not desired to confine the chicks to the limited area of the parkway. Patent No. 1,196,483.

A collapsible chicken crate has been patented to Geo. L. Yingling, Winston-Salem, No. Carolina. The side panels of the crate may be folded inward on the floor when the crate is to be collapsed for shipment back to the wholesale dealer after the chickens have been removed from the coop. Patent No. 1,198,305.



The above cut represents the 30 breeding pens of F. S. Smith, Hamilton, Ohio, the world's largest breeder of S. C. Buff Leghorns. Note the fifteen piano box houses in the rear, that he mates one male and one female in each year. From December 1st, 1915, to May 31st, 1916, the 15 hens' average for the six months was 134 2/3 eggs.

Partridge Rocks

Stock and Eggs for sale. Send stamp for Turkey or Chicken catalog giving price of Stock and Eggs and our great Madison Square Garden Prize Record

AMERICA'S
PROVEN
CHAMPIONS

Bronze Turkeys

MEYERSDALE, PA.

Poultry Patents Pay

Your invention if protected and developed may bring big returns. I make a specialty of poultry patents. Submit drawings or model. New booklet out soon.

LESTER L. SARGENT
Corner of G and Ninth Streets
WASHINGTON - - D.C.

Whys and Wherefores of Fall Spraying

is the title of a little booklet, giving seven reasons, official and non-official, why it is the best time to spray. This booklet will be sent out by the B. G. Pratt Co., 50 Church St., New York, manufacturers of the well-known "SCALECIDE" at a very early date. If you are not on their mailing list, send them a postal today giving the number of your trees and your dealer's name and you will receive a copy free. Address Dept. 47

Buckeyes

Winners of the Blue. Write for prices on high class exhibition and breeding stock. Satisfaction guaranteed.
DEEM'S BUCKEYE YARDS EATON, OHIO
Mention AMERICAN POULTRY JOURNAL when writing to advertisers.



Weight of Leghorn Eggs.
VETERAN I. K. FELCH in the October number of the AMERICAN POULTRY JOURNAL states that eggs should be sold by the pound. This, we believe, would be fair to all. But why fire a broadside at the Leghorn breeders? I'm quite sure it is no fault of theirs that eggs are not being sold by the pound.

When Mr. Felch says that "150 Brahma eggs, 168 Plymouth Rock eggs and 213 Leghorn or Wyandotte eggs all weigh the same," it is time for the Leghorn and Wyandotte breeders to get out their pencils and figure a bit, and, furthermore, to use their scales and see if Mr. Felch is correct in his statements. Here is another one: "Whoever saw a small egged variety producing eggs weighing more than twenty-four ounces to the dozen?"

We have seen on all sides and in our own yards, a so-called small egg variety producing eggs that weigh from twenty-four to thirty-two ounces per dozen. We weighed eggs today, October 5, from a small variety that weighed twenty-eight ounces per dozen, and we figure that this same small variety produced these eggs on fifteen per cent less grain and

much less floor space than the larger breeds would have done.
Better look up an October number, Sunday issue of the Philadelphia North American, and I believe it will appear that the Leghorns as a whole lead in egg production all other varieties.
Cheer up, Brother Felch, price of grain is high, as is also price of eggs. The war is still on across the water, and we want none of it.
Punxsutawney, Pa. F. M. Hoover.

Speaks for the White Orpington.
That the White Orpington is one of the most beautiful birds bred today few dispute. Their great size, stateliness of bearing, beauty in type, and pureness of color, captivate all who see them. They are as much at home in the show room as a duck is in water. It is not an uncommon thing for a White Orpington specimen to carry off the championship honors at our best shows. At St. Louis Coliseum Show, 1913, the champion bird of the entire show was a White Orpington cockerel. At the same show in 1915 the championship went to a White Orpington pullet. They also have been among the leading winners at Madison Square Garden, Chicago and Boston.



"SUNLIGHT"
POULTRY FARM S.C.W. LEGHORNS

Best Known Layers. Young Strain.

LOOK HERE!

Have you purchased that cockerel, cock-bird, trio or pen? If not, right now is the time to prepare for next year; get your birds now while the prices are low; you will undoubtedly pay more next year. Let me furnish you with some exceptionally good birds that have been bred for type, color, and above all for heavy egg production. My absolute guarantee is given to all; write and tell me your wants today, please.

SUNLIGHT POULTRY FARM E. N. LEMON, Owner Lynchburg, Ohio

S.C. White Leghorns—Silver Campines

Exhibited by me or by my customers won in September at The New York State Fair, The Trenton N. J. Fair, The Memphis Fair, The Interstate Fair.
I now have 1000 S. C. White Leghorn Cockerels.
Hatched from my pens of 1912, 1913, 1914 and 1915 Chicago, Coliseum, winners. Prices: \$2.50, \$5.00, \$7.50, \$10.00.



S. C. White Leghorns
I won the Sweepstake Championship at Chicago last December, in competition with the foremost breeders of the East and West.
If you want Leghorns that will lay and win, write me.

Silver Campines
I won the Sweepstake Championship at Chicago last December, against the leading Campine breeders of the world. My Green Sheen Strain of Silver Campines unsurpassed as layers. Fowls from trap-nested matings a specialty.



Coliseum Champion

Exhibition stock furnished for any show in the country. Write me to-day.
Frank E. Hering Desk B South Bend, Indiana

Coliseum Champion

A few years ago the best specimens were very scarce, only the very large breeders who bred them in great numbers could boast of many superior specimens, but not so today. White Orpingtons now are as white as any breed of fowls. They very often carry off the color specials at our leading shows. At all of our smaller shows, specimens may be found that a few years ago would have won easily at Chicago, Madison Square and Boston.

The popularity of the White Orpington grows every day. There is scarcely a poultry show today but that you will find them among the largest entries. The old Barred Rocks that are so common have to get a hustle on them to keep up with them. At the great Panama-Pacific Poultry Exhibition there were in the S. C. Red class 297, White Plymouth Rocks 253, White Leghorns 251, Barred Rocks 228, White Orpingtons 220. The catalog of the Chicago Coliseum Show, 1915, gives the following classes: Barred Rocks 292, R. C. Reds 219, S. C. Reds 211, White Orpingtons 173, which gives an idea of their great popularity as an exhibition fowl.

The one thing that will always determine the lasting popularity of any breed of fowls is its usefulness. Just as long as they will lay lots of eggs, just so long that breed will be popular in the show room and no longer. Nothing else will keep them at the top. We Americans love beauty, but we are also intensely utilitarian.

At the Missouri Experiment Station egg laying contests they have carried off their part of the prizes. They won over all breeds in the month of February,

1913. The Missouri Experiment Station is now conducting its fifth annual contest, and the Orpingtons as a breed have won every cup for February, except February, 1916. A pen of White Orpingtons consisting of ten hens in the 1914



Dam's record 261 eggs first year, 214 eggs second year. Sire's dam 229 eggs first year, 214 eggs second year. An example of what Yesterlaid Egg Farms is doing in their trap-nest line breeding pens.

contest during the month of April laid as follows: 18, 19, 22, 24, 26, 25, 19, 23, 24, 20, which is an average of 22 eggs for each hen. For the year 1914 in this contest, three hens in the same pen laid 195, 196, 199 eggs each.

In the National Egg Laying Contest at Mountain Grove, Mo., a White Orpington pullet laid 200 eggs in nine

months and 20 days, leading every hen in the entire contest. This pullet died at the end of the nine months and 20 days, or I am sure she would have made a record of which her owner would have been exceedingly proud.

All these records prove conclusively that the White Orpingtons are there with the eggs, and especially the winter eggs. Speaking of winter eggs, reminds me of a little incident which happened during the winter of 1914. The writer had a nice flock of White Orpingtons which were doing some extraordinary good laying. A bushel basket was piled high with the fresh hen fruit, a bed was also covered with them. My little two-year-old boy entered the room and in his babyish language said, "I love de hens that laid dem eggs," and so do we all. We love their beauty, but utility satisfies.

Mountain Grove, Mo. O. S. Tallent.

Experience—"Writ Sarcastic."

EDITOR AMERICAN POULTRY JOURNAL:

Knowing that at this season of the year you, as well as others, are short of eggs, I take the liberty to send you by parcel post a mess of eggs for your breakfast.

You see, last fall, I, for experimental purposes, made a purchase of three pullets of Tom Barron's world record layers; consequently I have plenty of eggs now, and would have had more, but unfortunately owing to strange climatic conditions prevailing in this district, one of the pullets turned into a rooster, which was a great loss to me, as these eggs are readily selling for \$10 per 15.

"sefton" your produce



If you consider Sefton Corrugated Fibre Shipping Boxes with the idea of what you *get* from them, you'll never use anything else; greater efficiency and neatness in your packing and shipping; the reputation you'll get for high class service; and the important saving in lower costs, breakage and loss.

The main fact about Sefton boxes from your point of view is that they're as good as knowledge and skill can produce; knowledge of *your* needs, and skill in the mechanical operations,—the result of long years experience in making the best boxes.



Ask your paper jobber; and look for the Anchor Brand trade mark

The Sefton Mfg. Co.

1329 W. 35th Street

Chicago, Ill.



The eggs in above picture were sent us by M. C. Wilson. The two small eggs in center are from a prolific laying Barron Wyandotte and the six large eggs are from Rose Comb White Leghorns. See "Experience—Writ Sarcastic" in Readers' Experience Department.



The eggs in above picture were selected from a lot sent us by M. C. Wilson. The large eggs are from R. C. White Leghorns and are clear white; the small eggs are reported as from heavy laying Barron strain Wyandotte pullets and these small eggs vary from cream to a light brown tint. See "Experience—Writ Sarcastic" in Readers' Experience

(Yes, I said for you to eat them, Oil people are noted for their liberality.) But I really could not afford to give you a full mess of these high priced eggs, so I put in a few of my common R. C. White Leghorn eggs to fill in. Please note the great superiority in the flavor of the imported eggs. We have imported many things from England that have been subject to universal public comment and, we believe, that after they have become well known these imported Wyandottes will be fully as well thought of as the English sparrows that were imported some years ago. We should give the originator all the credit due him, for you know that some of our exports have been of the morganic type and of doubtful utility, some having to be returned to us shorn of their fine

feathers. We also should offer due thanks to Professors Quisenberry, Stoneburn and Turner for the share they, by their unswerving neutrality, have had in the introduction of these heavy laying birds that surely shows in all its points that most painstaking pains have been put forth by the originator to produce a strain of birds capable of laying 300 eggs without straining their constitution and by-laws.

Oil City, Penn.

M. C. Wilson.

NOTE—Accompanying the above epistle was a box of 15 eggs, one broken in transit; eight whole, small, tinted eggs which were marked T. Barron Wyandotte; six large, white eggs from R. C. White Leghorns. We took two photographs of selected eggs from this collection, which appear herewith. We also measured and weighed the eggs. Mr. Wilson's letter is "writ sarcastic" and recites his experiences with two special pullets only. We do

not infer that he criticises all heavy laying specimens, whether American or English, but that he desires to present his personal experience to our readers, they to draw their own conclusions. Here are the egg measurements:

Circumference in Inches. Weight in Long Way. Middle. Ounces.

T. B. Wyandotte....	5 1/2	3 1/2	1 1/2
T. B. Wyandotte....	5 3/8	4 1/2	1 1/4
T. B. Wyandotte....	5 1/2	4 3/4	1 1/2
T. B. Wyandotte....	5 3/8	4 1/2	1 1/4
T. B. Wyandotte....	5 1/4	4 3/8	1 1/4
T. B. Wyandotte....	5 1/4	4 1/4	1
T. B. Wyandotte....	5 3/8	4 1/4	1 1/4
T. B. Wyandotte....	5 1/4	4 1/4	1
R. C. W. Leghorn..	6 1/4	5	2
R. C. W. Leghorn..	6 1/2	5 1/4	2 1/4
R. C. W. Leghorn..	6 1/2	5 1/2	2 1/2
R. C. W. Leghorn..	6 3/4	5 1/4	2 1/4
R. C. W. Leghorn..	6 1/2	5 3/8	2 1/4
R. C. W. Leghorn..	6 1/2	5 3/8	2 1/4

The figures and photos we can vouch for, since we personally took weights and measurements and also arranged groups and photographed them.—Editor A. P. J.

CAUTION: Any Bone Cutter claiming to be MANN'S without F. W. MANN CO. cast on its surface, is an imitation. The genuine MANN'S is made only in Milford.



Make Hens Lay

WE publish a book which gives the secret that all fowl raisers are most interested in—the secret of making hens lay when eggs are high as well as when they're cheap. The quick and easy way. Goes into the why of the subject. Makes you master of the poultry and egg business. Opens up a new line of thought on the best feed for poultry—the ideal egg-producing food, viz., ground raw bones with the meat and gristle that adheres to them.

MANN'S LATEST MODEL BONE CUTTER

prepares raw, green bone and gristle into a fine mash, four times richer in protein (the egg-making, body-building element) than corn. It supplies the animal food that chickens must have. Easily digested. Saves grain feed. Fowls relish it. Makes them grow, keeps them well, makes hens lay.

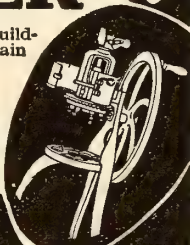
We Sell This Machine On Ten Days' Trial

No money down. Try it and note the improvement in the egg yield. If you like it, then buy it. If not, send it back at our expense. Send today for the book and read it. It is free. It will make you want the machine and the machine will add greatly to your profits.

F. W. MANN COMPANY

Box 56, MILFORD, MASS.

A FREE BOOK FOR YOU ON MAKING HENS LAY



Latham's Barred Plymouth Rocks

EXHIBITION FEMALE LINE EXCLUSIVELY

Strictly Choice Stock Only For Sale

In single birds, or in pairs or trios correctly mated to produce high-class stock. The selections and mating of the same will receive my personal care and attention, and will get the benefit of my 30 years' successful experience in breeding Barred Plymouth Rocks, which has placed the

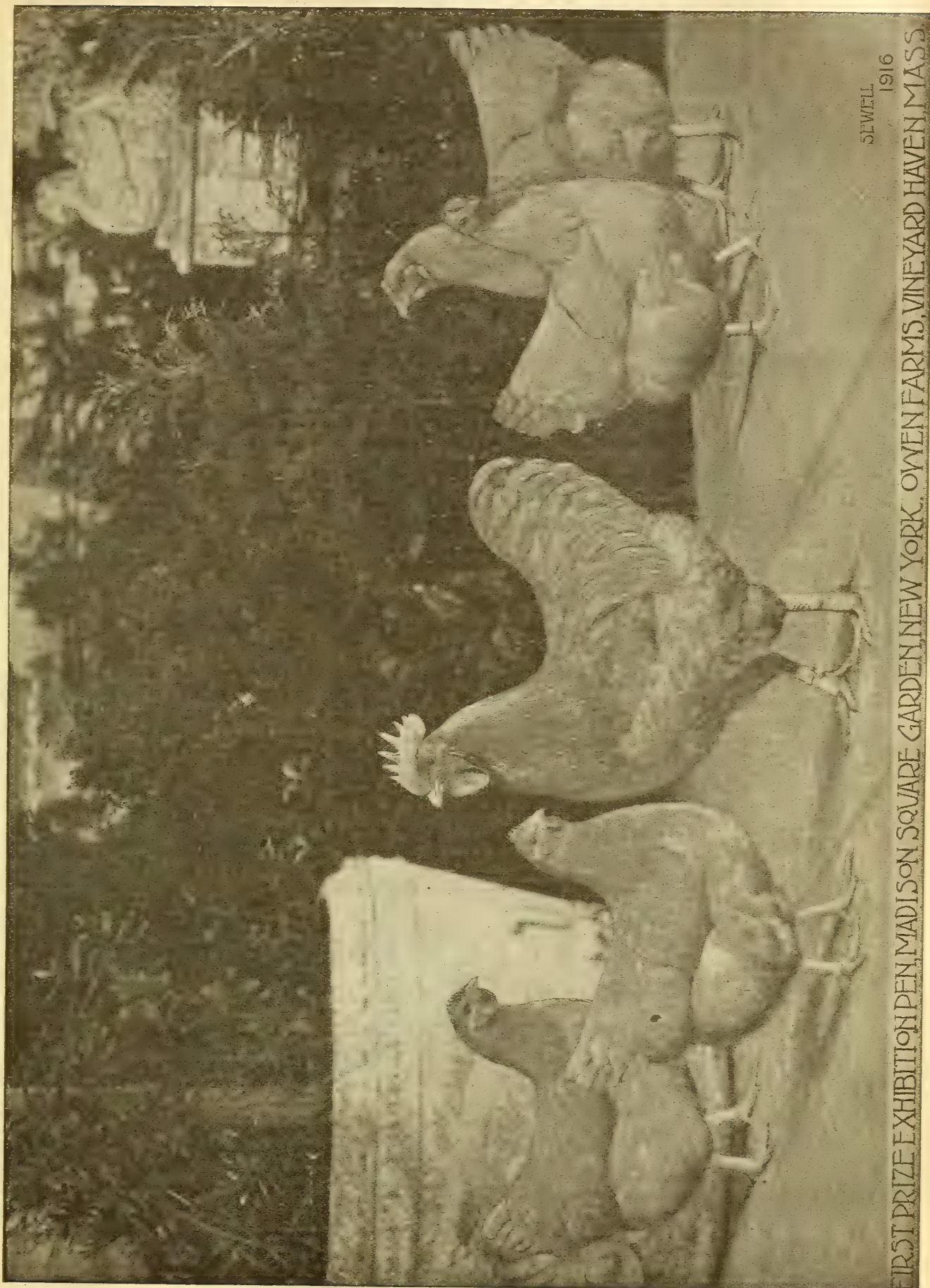
Beauty and Utility Strain

ahead of all others as producers of *Exhibition Females* of the highest quality. All orders will be filled exclusively with birds of my own breeding. Better service can be given in orders booked now instead of waiting till just before the breeding season next spring. *Be wise*—order your breeding birds now.

C. H. LATHAM, Box 145, LANCASTER, MASS.



2nd Prize Pullet Bred Cockerel, Palace Show, 1915



SEWELL
1916

FIRST PRIZE EXHIBITION PEN MADISON SQUARE GARDEN NEW YORK. OWEN FARMS, VINEYARD HAVEN MASS.

Smith's S. C. Buff Leghorns

I Have No Other Breeds

The Largest Breeder
of Buffs in the World

Winners at fifteen of the big shows and the world's best winter layers. I have nearly 8000 young birds for sale. I can please you and sell you cheaper than small breeders with small flocks.

F. S. SMITH
Box C and D Hamilton, Ohio

FREE Trial Offer on O-K Chicken Waterers SANITARY — NON-FREEZABLE

The O-K increases egg yield. Prevents diseases and frozen wattles. Keeps water warm and sanitary in 40 degrees below zero weather and cool and sanitary on the hottest days. Lasts a lifetime. Will pay for itself in a short time. A real money-saver and time-saver for every chicken raiser. Inexpensive to operate. Easy to clean. Guaranteed. Made in seven sizes. Low in price.



We also manufacture a full line of guaranteed coops and feeders. Write for full particulars and free trial offer.

PHILLIP BERNARD CO.,
2501 Floyd Ave., Sioux City, Iowa.

Idealize YOUR Flock. Wellcome's Famous "Ideal" TRAP NEST

Shows which hen laid the egg. Highest efficiency, least attention, lowest net cost. Write NOW for prices and proof.

F. O. WELLCOME, Box J, YARMOUTH, ME.



A Ride With the Hunters' Moon.

A CLEAR, cool night in October, a comfortable motor car, fur-coats and robes, the hunters' moon casting its glamour over the landscape, and one hundred and fifty miles before us!

At five-thirty in the evening, we touch the button and are off, first gliding smoothly over familiar country roads and on thru the clear frosty air to towns and villages beyond. The sun sinks in a maze of glory behind the western horizon, leaving innumerable pink streaks against a grey sky. Over the hills to a rambling farm house come the last straggling farm hands from their work in outlying corn fields. Belated teamsters urge homeward, tired overworked horses. Half grown boys in jumper and overalls, creep "like snail" unwillingly toward saw and axe in the wood shed. Uniform-sized cans, filled with early-milked, quickly-cooled milk stand in single cans, and up to a dozen and several lots, on platforms, awaiting the trolley express to be carried in town. Half in the valley, a thick volume of black smoke curls upward against the hills from a factory chimney, and, coming nearer, a volume of weary humanity emerges from one entrance, the day shift going off duty, while just beyond at another gateway, the surging mass of a night shift goes forth eagerly to their all night toil. Here and there, herds of cattle are driven in from pastures, a market team is loaded with great precision in readiness for an early morning start; groups of happy children in the reckless abandon of the day's last play, laugh and shout in shrill voices, while they race madly, apparently without purpose, in all directions. Down the road comes a returning farm wagon, setting up a deafening rumble as the horses quicken their steps nearing home. Here and there, lights shine out from distant farm house windows, while in nearby

roadside cottages families are sitting down to the evening meal or gathering about the reading table with newspapers and magazines to learn of the day's doings in the world at large.

One by one the stars shine out, clear cut and brilliant against the unmatched background of the heavens, studding it with marvelous beauty. The moon, great, round and full, cool as the frosty air, looks on in placid glory. From a village church issues a pleasing chorus of the congregational singing of psalm tunes with the deep notes of an organ accompaniment. "Oh, give thanks unto the Lord, for He is good, and His mercy endureth forever!" In the half shadow of banked shrubbery leading to the church entrance, lovers linger a moment hand in hand, as they have since the world began and will continue to do thruout time.

As the night wears on, lights gradually go out from windows, houses sit silent and moon-glamoured, devoid of life—as tho painted on a canvas. On and on the motor whirs thru towns and villages, wood lined roadways and wide open stretches of country. Broad, flat stone fences outline the curving roads and pastures, picturesque in their natural relation to the boulder cropped meadows and hillsides, majestic in their century or more of service. A hound howls dismally across the hills and others take up the cry. What a night for a fox hunt as participated in by hunters of other days!

A town clock tolls the hour of midnight, and soon the cocks in various farm yards burst forth in competing voices, running the entire scale in a long series of exciting and vain-glorious "cock-a-doo-dle-do's". A semi-circle of Lombardy poplars lining a hillside driveway stand out in bold relief against the skyline. A midnight flyer, connecting distant metropolis with seaport city roars by, leaving a trail of black smoke and the



BEAUTIFUL PROFITABLE U. R. FISHEL'S WHITE PLYMOUTH ROCKS

have again proven their superiority at the Great Interstate Fair, South Bend, Indiana, September, 1916.

1st, 2nd, 3rd, 4th, 5th Cock.
1st, 2nd, 3rd, 4th, 5th Hen. 1st, 2nd Display.
1st, 2nd, 3rd Pen—Fowls.

1st, 2nd, 3rd, 4th, 5th Cockerel.
1st, 2nd, 3rd, 4th, 5th Pullet.
1st, 2nd, 3rd Pen—Chicks.

This unequalled record with our winnings at Six International Expositions, Ten State Fairs and Expositions, Great Hagerstown, Md., Chicago and other leading poultry shows is proof positive there are no better White Plymouth Rocks.

Exhibition Birds
that can win anywhere.

Selected Breeders
that will reproduce.

Utility Fowls
that will give you results.

Bred in line for over twenty years. Farm reared, strong, vigorous birds. Write me your wants, please. Price List Free. Eggs for Hatching. Baby Chicks.

U. R. FISHEL

Box A

HOPE, INDIANA

reverberation of shrill whistles between the hills.

A strange deep silence falls over all as the night wears on. Every building, tree, bush, rock, stream of water, church spire and hilltop clearly defined and wonderful to look upon, each fulfilling its destiny, marvelous for what it is—and God only knows what and why it is—spread out in a stupendous panoramic display for man to behold, to enjoy and to make use of. On and on we travel thru the great silent night. Here, at least, man sleeps and nature awaits his awakening. Roadways and village streets are deserted—no sound save the soft whirr of the motor breaks the solemn wonder and stillness of the night.

Coming into the city at one in the morning, we find a different world. Groups of gaily chatting men and women loitering along the streets as tho it were mid-day. Street cars, well filled, jarringly rattle around curves and up main thoroughfares. Motor cars rush in and out of garages. Men sit in groups in hotel windows idly chatting and puffing at cigars. Shop windows display in alluring fashion all the wealth of modern merchandise.

The hotels are full. We take a front parlor on the second floor and cot beds are hurriedly carried in. Scrub women are noiselessly cleaning corridors and stairways.

We prepare for bed in a dreamy sort of way, half intoxicated with the wonders of the night and of this period of the world's history. The great heretofore unsolved problem of closer communication with our fellows which is marking a period of unprecedented progress, now solved by modern methods of transportation—chiefly by means of the motor car. Once considered merely a pleasure vehicle and owned by the wealthy few, now a necessity among practically all classes of people and in all lines of trade. The time draws near when no one can afford to be without one and this innovation must bring about no end of changes in the line of progress in the business world and the home life of the people.

A great broad fertile country stretching from ocean to ocean, a country of homes, a people of hope, of imagination unlimited, possessed of the courage of their convictions—who can fail to see their unmatched opportunity and great future in the encouragement, the succor, the brotherly kindness meted out by them unstintingly to the battle-ridden, war-impooverished nations across the sea? We have sometimes been down in the fog-dimmed valleys, blinded by egotism, nationalism and self interests, but we are reaching the heights, where the ozone is clear and pure, where the vision is world wide and where the hope is for

High Yielding
Egg Strain

Buff Wyandottes White Leghorns

Bred for large egg yield: handsome stock, winners at Madison Garden and Boston shows. Best Winter laying hen at fourth Storrs' Egg Contest, 246 egg record at third Storrs' Contest. Maturing pullets and cockerels now ready to ship, for breeding, winning, and laying! Circular for asking.

DR. N. W. SANBORN

924 South Road Holden, Mass.



Around your car, in
the garage—a can of

Old Dutch

comes in handy



Use Less Feed, Less Labor, And Get More Eggs

Don't worry about high feed bills. Use Norwich Automatic Appliances. These machines prevent all waste, supply feed when the birds need it, increase the efficiency of the ration, provide exercise, increase the egg yield, and practically eliminate the labor of feeding. Official laying competitions have proven that *Norwich-fed layers regularly average 20 eggs more than hand-fed stock.* To make and save money, secure greater results with less effort, adopt the Norwich plan of feeding.

Make the test on one pen and compare results. Buy one or more Apaco Poultry Feeders from your dealer—or order direct from us if necessary—and let your birds prove that the Norwich way is right. Now is just the time.

The Apaco Feeder is sold under our guarantee of complete satisfaction. It holds 12 quarts and costs but \$1 delivered east of the Mississippi River—\$1.30 beyond. Order today. We will ship immediately.

The Poultry Fountain That Never Freezes

provides a constant supply of fresh, clean water regardless of temperature. Operated last winter in the extreme north at 32, 47 and 60 degrees below zero. Recent official investigations have shown water to be as essential to winter egg production as feed. The Norwich Automatic Air-Lock Fountain supplies water at just the right temperature, and eliminates the worry, annoyance and labor of frozen water.

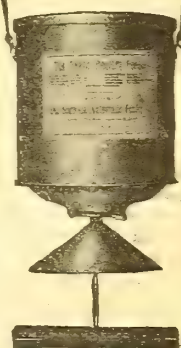
Five gallon capacity. Price \$3, F.O.R. New London, Conn.

Write for all the facts—FREE

THE NORWICH AUTOMATIC FEEDER CO.

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Why?

64 Page 6 x 9 inch BOOK that explains everything you will ever want to know about CAPONS. 50 pictures from life that show each step in the operation. List of Capon Dealers' addresses. Tells how to prevent "Slips," where to get the best and cheapest capon tools. Capons are immense eaters. Big profits realized. (Get wise. This book tells how. Copyrighted new and revised 1916, 5th edition. Regular 50c copy, prepaid to your address (a short time only), for a Dime in coin or stamps.

GEORGE BEUOY

R. R. No. 7

CEDAR VALE, KANS.

BARRED PLYMOUTH ROCKS

A few yearling cock birds and yearling hens at very low prices if you will write us.

W. H. GODDARD & SONS

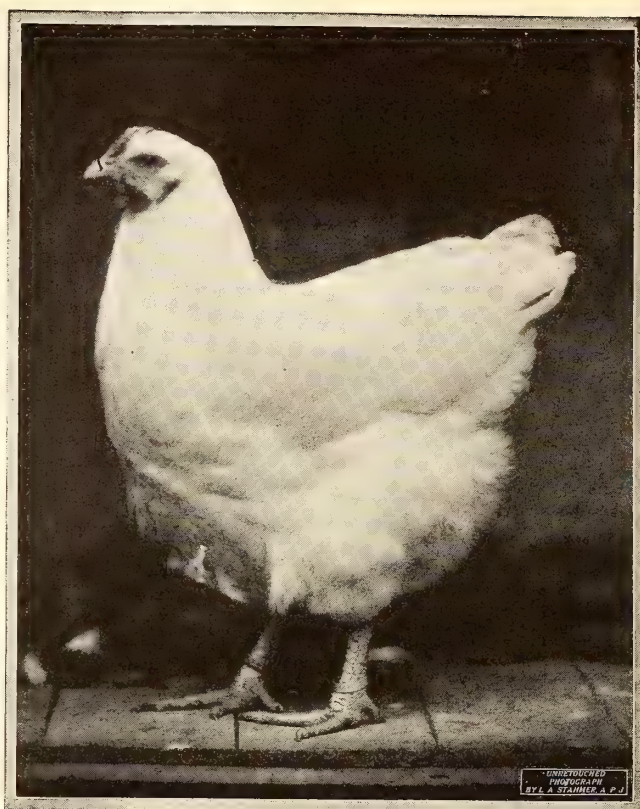
Orchard Place

RIVERSIDE, MUNCIE, IND.

Poultryman's Account Book, Price 25 cents. For Sale by American Poultry Journal.



4th prize Red Sussex pullet at Club Show, Chicago, December, 1915.
Bred and owned by A. and E. Tarbox, Yorkville, Ill.



First prize White Wyandotte hen at Springfield, Ill., September, 1916.
Bred and owned by L. J. Demberger, Stewartsville, Ind.

humanity. And from the hearts of the people from all corners of the earth shall well that time honored song of Thanksgiving "Oh, give thanks unto the Lord, for He is good, and His mercy endureth forever!"

* * *

BAKED PEARS.

By J. R.

Select good sound pears, pare and core and place in a covered baking dish. Add one-half cup molasses to two quarts of pears and a little spice if desired. Serve hot or cold.

APRICOT SOUFFLE.

By J. R.

Beat the yolks of five eggs for three minutes or until lemon color and add five teaspoonsful of sugar. Put one cup of stewed apricots thru a potato ricer and add to the first mixture. Beat the whites of the eggs stiffly and fold in. Pour into a baking dish and place the dish in a pan of hot water in a quick oven. Brown and serve immediately with whipped cream.

* * *

GREEN CORN GRIDDLES.

By J. R.

Cut from the cob sufficient green corn to make two cups and put thru a meat grinder. Add two eggs, two cups flour, three teaspoons baking powder, 1 tea-

spoon salt, 1 tablespoon melted butter and sufficient rich milk to make a griddle cake batter. Bake on a hot griddle and serve immediately.

* * *

BAKED STUFFED TOMATOES.

By J. R.

Mix one-half cup dry bread crumbs with a teaspoonful of butter, a half teaspoonful salt, a little sugar and a bit of grated cheese and a sprinkle of pepper. Select smooth ripe tomatoes, wash and cut a slice from the stem end, scoop out the insides, taking care to keep the shell firm. Mix the pulp with the other ingredients and fill the shells. Add a few bits of butter, replace the tops and bake in a buttered dish with a little water about forty minutes in a medium oven.

Rockdale
White Plym. Rocks
Better Bred for 16 years.
DEYOE'S, Station 1, Dodgeville, Wis.



Sunswick Buff Orpingtons

Have been bred for years to produce type, color, size and great egg production. Sunswick's grand quality and worth are shown by their hundreds of winnings at America's leading shows. Sunswick's flock of Buff Orpingtons has been proved to be among the world's best, by its show record and satisfied customers. Sunswick has won a reputation for moderate prices and upright dealings. Sunswick can supply winners for your shows, also breeding birds to produce quality stock. Sunswick offers some wonderful exhibition birds for the early shows—birds that should win in any competition. Order early. Send a postal today for large catalog—it's free.

SUNSWICK POULTRY FARM, Rufus Delafeld, Owner.

Box J, SOUTH PLAINFIELD, N. J.



Young's Strain S. C. White Leghorns

I HAVE NO OTHER BREEDS

Acknowledged thruout the world as being the standard of all the Leghorns of all America, and the leaders of heavy layers. Eggs at half price remainder of breeding season. I have hundreds of yearling hens for sale. Why not come to headquarters and get the best. Mating list free.

D. W. YOUNG

:::

Box E12

:::

MONROE, N. Y.

DR. WOODS' NOTES AND COMMENT

(Continued from Page 1202)

If you have a corn crib, put by a selected stock of well-seasoned ear corn to be kept for making chick food next spring. There is no food that will quite equal good corn, well-cribbed and ripened on the cob. Dent corn is good, but the flint varieties are, we believe, best for poultry feeding.

* * *

On cold afternoons a full feed of whole corn and buckwheat, in time to fill up before going to roost, will be relished by the birds and will help toward better results.

* * *

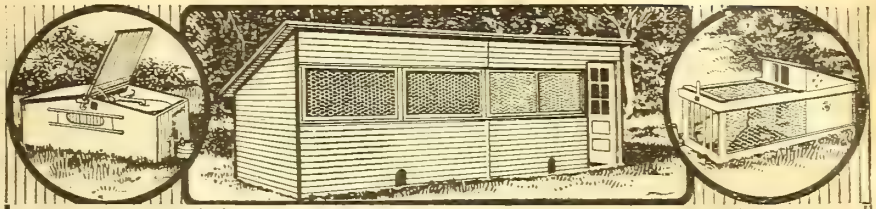
If you have neglected to store your winter supply, there is still time to put plenty of sand, gravel, loam and dried peat under cover for poultry use during the coming winter. The sand will be useful for floors of brooders, coops and poultry houses; the gravel will save more expensive grit; the loam and dried peat are needed as absorbents under roosts and on floors, and also in the dust bath.

* * *

We have read some editorial matter lately that makes us think of the one time popular song: "I don't want to play in your yard. I don't love you any more." When adult males take to childish pouting it is apt to give observers that "tired feeling."

* * *

If the American Poultry Association continues to work along the lines established at Cleveland Convention for harmonious co-operation, progressive development of the whole poultry industry, and better team work among all real poultrymen for the benefit of all poultry interests, it should receive the hearty support of every man and woman interested in poultry, able to see beyond the inside of their own pockets. An international organization, divorced from the selfish personal interests of a few and devoted to promoting the greatest amount of good for the whole poultry industry and all persons interested in



Brooder for 50 to 100 chicks

No. 3 Poultry House for 60 hens—2 units

Setting Coop

HODGSON PORTABLE HOUSES

The various models of these houses are arranged after the most scientific methods of raising poultry. Years of experience have proved this. The brooder can be operated outdoors in zero weather. The poultry house is made in sections than can be quickly bolted together by anyone. The setting coop keeps a hen by herself while setting. All neatly painted. Send for illustrated catalog.

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Wyckoff's S. C. W. Leghorns

Acknowledged Everywhere the World's Greatest
Laying Strain—Unequaled in Standard Qualities.

REMEMBER that we are the originators and for thirty-five years specialty breeders of the justly celebrated **Wyckoff Strain of S. C. White Leghorns**—the most profitable strain of poultry in America today. Place your orders at headquarters and make no mistake.

We are now offering hundreds of fine

yearling hens, yearling cocks and April, 1916 hatched free-range-reared cockerel and pullets, all a grand lot of birds that are sure to please. As the demand is very great, we advise that you place your order early. Send for catalog and testimonials from satisfied customers from all over the world.

Address,

C. H. WYCKOFF & SON

AURORA, CAYUGA CO., N. Y.

WANTED

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Freight or Express

White **EGGS** Brown

Returns Day of Arrival. No Commission.

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References: Broadway Trust Co.; Chatham & Phoenix Nat'l Bank; All N. Y. Com. Agencies.

HARNLY'S Quality WHITE ORPINGTONS

Officially awarded Championship male two years in succession and 127 prizes one season.

Eggs : Chicks : Breed-to-lay Breeders : Show Birds : Free catalog.

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Learn How To Speed Up Your "Egg Factories"

These 2 FREE BOOKS Tell You How

THEY give you proof after proof where remarkable results in egg production have been secured by the use of Cyphers Balanced-Ration Poultry Foods. Also the facts about *why* they will hurry up your young pullets and quickly round out the early show birds.

Now is the time to begin to speed up your "egg factories." The high prices of eggs will give you big profits. *Cyphers Laying Mash*—a balanced ration of sound grains, blood meal and alfalfa ready mixed for feeding, and *Cyphers Scratching Food* are two essentials at this time of year.

These books will post you, too, regarding the many other Poultry Supplies you will need, including Incubators, Hovers, Remedies, Lice Paint and Powder, etc., etc. By following the "Cyphers Way" you will assure greater poultry success. Write tonight for these two Free Books and our latest lowest prices on Poultry Foods; also name of nearest agent.

CYPHERS INCUBATOR COMPANY, Dept. 30
Home Office and Factory: BUFFALO, N. Y.
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The "Cyphers Way"

"Like so many other successful poultrymen, our best layers and show birds for several years have been hatched in Cyphers Incubators, reared in Cyphers Brooders and fed on the egg to Poultry Foods from the egg to the showroom. By long personal experience we know your entire line of Poultry Supplies is so far superior to all others we would not think of making any changes. The Cyphers represents the standard of excellence with us."—**JOHN S. STEERS, Breeder of Rocks, White Orpingtons and White Wyandottes, Dry Ridge, Ky.**



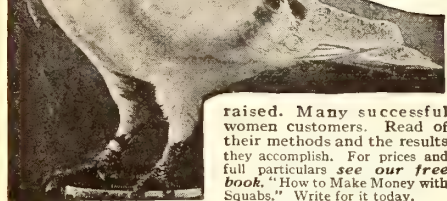
This S. C. White Leghorn—hatched and raised the "Cyphers Way"—Laid 288 Eggs in 365 Days as a Yearling.

Use **Cyphers Co's**
Profit Producing

POULTRY FOODS AND SUPPLIES

SQUAB BOOK FREE

for 1916, telling how a Mich. hired man now works for himself breeding PR squabs and selling for \$5 doz., how an Ind. man sold 4652 PR squabs for \$1265 in 1915 and cured himself of desire to leave the farm, how a S. C. man ships PR squabs 125 miles to city hotel by parcel post at \$4.25 doz., how another earned one thousand dollars with PR stock from start with only one pair, how a Texas judge bred 8 pigeons until they amounted to a flock of 164 in one year, how a Vermonter bred 25 pairs to 800 pairs in two years. You can do the same. More money-making experiences. **Write today for this big free book.** How to get six dollars a dozen, how to start small and grow big. We ship breeders everywhere, safe delivery guaranteed. Read how one of our customers gets as high as \$9 a dozen for squabs in Pittsburgh and makes a net profit of ninety dollars a month. Note his selling methods. Reading matter which is alive with selling as well as breeding ideas. Squabs well sold are easily



raised. Many successful women customers. Read of their methods and the results they accomplish. For prices and full particulars see our free book, "How to Make Money with Squabs." Write for it today.

PLYMOUTH ROCK SQUAB COMPANY,
321 Howard St., Melrose Highlands, Mass.

Founder of the Squab Industry in America

I COULD DIE EATING RAT SNAP

says the rat—and he does! He prefers it to all other food and it is the last he eats. **RAT SNAP** chemically mummifies the carcass. Prevents all odors. Does not dry up, soil, decay or blow away. Not mixed with other food. Ready for instant use. Surest, quickest, safest, cleanest, most convenient and sanitary method of exterminating rats and mice.

Get rid of rats! It is economy. Buy ten big cakes prepaid, for a dollar. Send today. Protect Your Chicks and Feed Supply.

MERCHANTS DRUG COMPANY
Easton, Maryland



CORRECT Coal-burning HOVER

(Patent Pending)

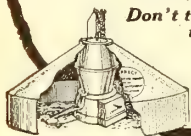
\$10.75 Prices quoted are F. O. B. Factory
41 INCH CANOPY
Costs Less to Buy—Less to Run
\$11.85 You can pay more—but can't get more. Capacity 50 to 1500 chicks. Self-feeding and regulating. Gas and spark tight. Portable and everlasting. Coal only once in 24 hours. Costs but 5 cents a day to run.

Don't take an imitation. This is the only BIG value.
Write for circular.

CORRECT HATCHER CO.

Dept. 3

Leesville, Carroll Co., O.



Crown Bone Cutter

EASIEST run, **Fastest** Cutter, **Strong**, **Substantial** build. Bone scrap means more eggs, higher percentage fertility. Only a "Crown" Cutter and have fresh bone for every feed. Dry Bone, Grain and Shell Mills. Hand and Power sizes. Free illus. catalogue. Est. 36 years.
WILSON BROS., Dept. 6 Easton, Pa.

Best Made-Lowest in Price



Mention the AMERICAN POULTRY JOURNAL when writing to advertisers.

the many branches of poultry keeping, can grow wonderfully, and rapidly, and accomplish much that is really worth while.

* * *

We understand that the International Baby Chick Assn. is to hold a big meeting at the Palace Show, New York City, next month and that the educational program is to be a feature. Every one interested in the baby chick industry, and in allied branches of the poultry business, should secure membership in this organization. Information can be obtained of Secretary H. D. White, Saugatuck, Michigan.

* * *

When you find time to sit by the fire and look over the new seed catalogs that will soon be with us, just bear in mind that it pays to buy good seed, even though the price does seem a bit high. In this part of New England, owing to a cold, wet, and generally unsatisfactory growing season, it was a poor potato year. On a dry southerly slope we put in a barrel of seed, costing us \$5.50, and got 37 bushels of fine quality marketable size Early Rose potatoes. We are wintering about 14 bushels and sold the rest at prices ranging from \$1.25 to \$2 per bushel. Two bushels of native seed, White Mountain potatoes, gave us only four bushels of marketable crop. Five pounds of Plymouth County Farmer potatoes, supplied our boy by the County Agricultural Agent, gave sixty pounds of good potatoes.

* * *

A few months ago we mentioned a poultryman who uses a phonograph to help him to forget his troubles and to help establish a frame of mind that would enable him to attack his poultry problems with a clearer vision and greater determination. He finds that "canned music" supplies him with just the mental relaxation and rest that he needs. We got to thinking about that poultryman and his success and Edison's saying that he hoped to "see a phonograph in every home," and it occurred to us that maybe it might be well to take a little of the same medicine. We live pretty much in the back woods and thirty miles from a good theatre, so that amusements are expensive and take time. Result was that a modern phonograph and supply of records arrived at our home on the Better-half's birthday. It is one of those purchases that you continue to feel good about. All summer long it has furnished entertainment and enjoyment for family and friends on most evenings at home. As the days shorten, it affords still greater pleasure and by making careful selection in purchase of records and buying on the library plan of trial at home before purchasing outright, the machine is yielding worth while educational value for every member of the household.

* * *

If you are not using trap-nests and keeping a record of your best matings, better plan to do so the coming season.

140 EGG INCUBATOR CHICK BROODER

Both are made of Both \$10
Calif. Redwood for

Incubator is covered with asbestos and galvanized iron; has triple walls, copper tank, nursery, egg tester, thermometer, ready to use 30 DAYS' TRIAL—money back if not O. K. Write for FREE Catalog Now.

IRONCLAD INCUBATOR CO., Dept. 49 Racine, Wis.

STILES' COLORED Leg Bands

PROVIDE IDENTIFICATION

Identify birds as far as you can distinguish colors. Tell which are yearlings and which are two year olds without handling. Made in Red, White, Blue, Amber, Green, Black, Pink, Light Blue and Ruby. Mention variety when ordering.



ECONOMY BRAND—Single coil for adult fowls. 12 for 15c; 25-30c; 50-50c; 100-75c; 250 \$1.80; 500-\$3.50, postpaid.



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THE VICTOR BAND
Has large printed numbers, bright and clear colors—Red, white, blue, green and yellow. Adjustable. Made of celluloid and aluminum. 12 for 35c; 25-65c; 50-\$1.25; 100-2.25; 200-\$4.00, postpaid.



ALUMINUM BANDS

THE CAPITAL BAND
Has raised figures. Adjustable, strong, smooth edges. 12-15c; 25-25c; 50-40c; 100-65c; 250-\$1.50; 500-\$2.75; 1000-\$5.25.



THE FAVORITE BAND
Made of heavy aluminum with smooth edges. Large raised numbers, locks with double clinches. Prices same as The Capital.

CHAS. L. STILES

232 N. Third St. COLUMBUS, OHIO

Wendell's
SANITARY POULTRY SUPPLIES

INCUBATORS, BROODERS, NON-FREEZING FOUNTAINS, FEEDERS, OAT SPROUTERS AND 60 MORE LABOR SAVING ARTICLES FOR THE PRACTICAL POULTRY MAN

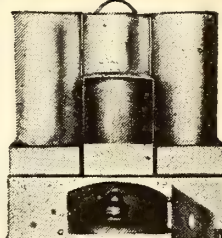
GET OUR BIG FREE BOOK ADDRESS

AN EGG is 73% WATER

Your Hen

Must have warm water in the winter

This fountain will warm the water and keep the grain warm, it also will keep the frost out of small sized hen house. We have **FIRELESS FOUNTAINS** that keep the water warm without a lamp, get our **FREE BOOK HOW TO GET EGGS IN WINTER.**



WENDELL INCUBATOR CO. HOLLY, MICH

Natural Hen Incubator \$3

No freight to pay. Actual hen controls everything. No lamp, no costly mistakes. Best hatcher in the world. Over 750,000 in use. J. M. Fayle, Ill., writes: "It is the best thing I ever saw for hatching chicks." Another: "I got 507 chicks from 540 untested eggs." Thousands of other testimonials. Agents Wanted. To reach the million mark in 1916 we will send you a Special Introductory Offer with our Free Catalog. **Natural Hen Incubator Co., Sta. H, Dept. 4, Los Angeles, Cal.**

Mention the AMERICAN POULTRY JOURNAL when writing to advertisers.

At least select one best pen, carefully mated, and take time to trap-nest them. Keep a record of the eggs and the chicks—use a chicken punch to mark web in chick's foot and record the marks—so that you know just what you are getting from your best breeders. With carefully kept breeding records you will be able to breed more intelligently and to get ahead much faster than on the old hit or miss, "hope the mating nicks" plan. It takes a little more time to use trap-nests and to keep records, but it pays big returns on the time expended.

* * *

Be sure to attend the poultry shows this season and urge your friends to do likewise. You can get more first hand knowledge of the different varieties of poultry by attending a good show and comparing the birds, than you can by reading printed descriptions. Take along a Standard and compare the specimens exhibited with the requirements in the different sections. Talk with the breeders about their favorites. If you are interested in poultry and wish to become a successful breeder you will find the up-to-date poultry show a good practical school. Exhibit at your local shows if you have good birds and can show them. Don't feel hard hit even if you don't win. It does make one feel good to make a win, but it takes a real man or real woman to be a good loser. The good loser takes his losses quietly, without fuss, whine, or excuses, and makes up his mind to do better and to win next time. Don't be a poor loser, and don't be a "quitter."

* * *

At this season the daily press begins its crusade of "Do your Christmas shop-

ping early." If you take the advice and attempt to follow it, you will find the experience is interesting but not productive. At most of the small and big stores, you will learn that "the Christmas stock has not yet arrived" or that "we haven't begun to open and display our Christmas goods yet." About all you will find is left overs. There ought to be a little co-operation on the part of the dealers in this "do your Christmas shopping early" campaign. There are firms, however, that are nearly always stocked with fresh goods and where you can "shop early" and as often as you please, get new goods and obtain good values. These are the big concerns that do a large and reliable mail-order business. You can generally do your Christmas shopping early by mail and get really satisfactory results.

* * *

Speaking of Christmas and presents, why not give a few lasting and interesting Christmas gifts to some of your boy and girl friends? One dollar will pay for a subscription to AMERICAN POULTRY JOURNAL (36 issues) for three years, outside of Chicago: in Chicago the price is \$1.50; in Canada, it is \$1.75; and in foreign lands it is \$2.50. The expenditure of a few dollars in AMERICAN POULTRY JOURNAL subscriptions would furnish worth-while and lasting Christmas gifts for several boys and girls and provide them with an incentive to become interested in poultry keeping and with a large fund of helpful instruction. It pays to help the youngsters, and there are a lot of oldsters who would enjoy and benefit by the same sort of Christmas gifts. If you can afford to dig deeper into your purse for a gift for the

boy and girl, why not give them a pair, trio, or pen of pure-bred fowls and so start them in worth-while productive work?

* * *

While we are on the subject, we wish to call your attention to the advertisements which appear in this issue of AMERICAN POULTRY JOURNAL and to those which will appear in our December number. You will find therein presented a great variety of offerings from which useful and desirable Christmas gifts may be selected. You can "shop early" with our advertisers, get prompt service and satisfaction, and you can do your Christmas shopping by mail. Be sure to mention the fact that you saw the ad in AMERICAN POULTRY JOURNAL, it secures special attention for you and it helps us.

WHITE LEGHORNS 258 and 282 OFFICIAL RECORDS	READ'S Pedigreed Leghorns, Reds and Wyandottes We have the Best High Rated Cocks and Cockerels Hens and Pullets In America Be sure to write us before placing orders, stating your wants fully. Prices reasonable. WRITE TODAY	WHITE LEGHORNS 248 and 288 CYFHERS' RECORDS
RHODE ISLAND REDS 231 and 251 OFFICIAL RECORDS	THE READ POULTRY FARM Watervliet, N.Y.	WH. WY. ANDOTTES 274 and 282 OFFICIAL RECORDS

WIN AT THE FALL FAIRS AND SHOWS

WITH MY

S. C. WHITE LEGHORNS SILVER CAMPINES

5,000

head of young stock are now on my 15-acre poultry plant awaiting your pleasure. My incubators were set last November and were continuously in service until the middle of June. I had 50 separate pens, each headed by some male that has won for me at the Coliseum, Chicago, the Illinois State Fair, the Interstate Fair, etc. The foremost judges in the country pronounced my matings the equal of any they had ever seen. I absolutely guarantee to satisfy all customers.

TWO SWEEPSTAKE CHAMPIONSHIPS The Coliseum, Chicago, December, 1915



S. C. WHITE LEGHORNS

Cocks, 1-3 Old Pens, 2-3
Cockerels, 1-4 Young Pens, 1
The Coliseum Sweepstake Cup
Total Points - 66
Nearest Competitor - 43

SILVER CAMPINES

3 Hens in Single Class
3 Pullets in Single Class
2 Cockerels in Single Class
3 Old Pens 3 Young Pens
Coliseum Sweepstake Cup
American Campine Club Challenge Cup



EXHIBITION STOCK furnished for any show in the country. Write for Mating List. Drop me a postal card stating your wants and I will send you literature.

FRANK E. HERING

Desk B

SOUTH BEND, INDIANA



Winners

Madison Sq., 1916

My Rose Comb Brown pullets of 1915 breeding were never beaten, winning firsts and seconds in Allentown, Philadelphia and Madison Square. Also first and second hens. Eight firsts by customers in Canada. Sons of these winners \$15 to \$25. Utility line, 242 to 256 records, \$1.50 up. They won an egg contest in western Canada.

S. C. Browns—266 egg line. The greatest egg line and ckris, out of 1st Palace pullet, 1914.

S. C. Whites—288 egg line cockerels, 1 or 100. Also hens. A great chance.

R. C. Whites—244 egg line. Winners. All my Leghorns good size and lay large eggs.

S. C. Reds—248 egg line. Extra fine.

Barred Rocks—270 egg line. Extra lot.

W. Wyandottes—228 egg line.

Fair treatment. Send for catalog.

W. W. KULP

Box 70 Pottstown, Pa.

TENACRE

Exhibition Birds { **S. C. WHITE** } Utility Birds
That Win! { **LEGHORNS** } That Lay!

Write for catalog and mating list.

Tenacre Poultry Farm

R. F. D. No. 3 - PRINCETON, N. J.

Ives' Langshans

WHITE—BLACK

Champions of record for many years. Consistent winners at New York and Boston. Bargains in breeding stock NOW.

IVES, IVES & IVES GUILFORD, CONN.

John Schabell's Single Comb

White Leghorns

Breeding hens and cockerels, May hatch. All breeders trap-nested.

JOHN J. SCHABELL

3331 W. Cuyler Avenue Chicago, Illinois

BELLA VISTA

S. C. White Leghorns

We won two firsts, second and third at Purdue University Egg Show. We breed for layers of many choice table eggs. Can spare 500 pullets and yearling hens, and cockerels at \$2.00 each. Circular free. Correspondence solicited. Address

BELLA VISTA FARM KIMMSWICK, M. ISSOUR
Reference: Bank of Kimmiswick.

WOOD'S BUFF ORPINGTONS

WHITE HOLLAND TURKEYS, EMBDEN GEESE
Large type exclusively. State Fair winners. Describe your wants. Honest goods at honest prices.

H. M. WOODS R. F. D. 1 CARLINVILLE, ILL.

Three Oaks Columbian Wyandottes

Breeding and exhibition stock at reasonable prices. Write wants. Address

Ralph Woodward, Box 200, Grafton, Mass.
Pres. National Columbian Wyandotte Club.

Sears' Barred Plymouth Rocks

Are sure winners. Breeders for sale now.
Howard O. Sears, L. Box 6, Garden Prairie, Ill.

S. C. BUFF ORPINGTONS

Pens, Trios and Single Birds, both in old and young stock at rock-bottom prices for this month. Some very nice March hatched pullets and cockerels both in utility and show birds.

SUNSET POULTRY YARDS, C. F. Siegel, Prop., Olneyville, R. I.

Red and Speckled Sussex Silver Wyandottes

Stock for sale at all times. Eggs in season.

A. & E. TARBOX Box A, Yorkville, Ill.

OUT OF THE EAST

BY P. K. WHITE

Yesterday has passed—forget it, there is no tomorrow—so don't worry, today is here—use it.

At this writing, I have covered the first lap of my "round the East" trip and have visited so far about three hundred plants. These include some of the largest and smallest, not to mention some of the best and poorest.

You are well aware that there are some mighty big poultry plants in this country and while I have not visited all of them, I have been to a good many and it is my personal belief that Pittsfield Farm is the largest. It is a wonderful place in number of buildings and incubator capacity. In naming this as what I think is the largest plant, it is but fair that I mention that so far I have not visited Owen Farms, who are also noted for the large plant they have.

As to what I consider the cleanest plant, both in houses and yards, I shall name Homestead Campine Farm, Wayland, Mass. If you doubt this statement, ask any one who has ever been there and I am sure they will tell you the same. There are a large number of breeders who pride themselves on how clean they keep their poultry houses, but the "Homestead" is in the lead.

In my travels I make it a point to call at every poultry plant; none are too small, for after all it is the small man who grows. His views of the other fellow is a great education, and as William Barry Owen once said, it is the field man whom they unload all of their troubles on. In conducting this column I say what I really think; it may not agree with the views of some of the other advertisers, not to mention ye "editor and managing editor," yet they are honest views as I see them.

Thru error I omitted from Syracuse write-up the wonderful win made in Buttercup class by Mrs. Hattie D. Reed of Marcellus, N. Y. Here it is: Special for best display, special for most points on pen, 1-2-3 pen, 3-4 cock, 5 pullet.

All hatching at the Read Poultry Farm, Watervliet, N. Y., is done by electricity and the birds after coming from incubator are placed in electric brooders, then taken from there on a range of asparagus, which makes ideal shade for growing chicks.

Some people do not agree with Dr. Woods on his open-front house, yet in traveling around I have found hundreds of them and the owners were praising them to the skies.

Rumor has it that Schenley Heights Farm have sold all of their S. C. Reds to Harlo J. Fiske of Pabst Farms.

Have long had a desire to see the plant of E. B. Thompson, Amenia, N. Y. Well, it is a real plant in every way, birds, acreage and buildings. If the other breeders would use his system in regards to the office end of it, they would have more sales.

You know this is the home of the Barred Rocks and while I have not been to all of the plants, let me add that in the "Hall of Fame" as regards good plants in every way the following have a place: Bradley Bros., Lee, Mass.; C. H. Latham, Lancaster, Mass., and Grove Hill Poultry Yards, Waltham, Mass.

The farm of Gilbert Bros., Haverhill, Mass., adjoins the birthplace of Whittier, the poet. No, I know of no reason why this makes their Columbian Wyandottes any better.

Hickory Farms, R. C. Blake, Mgr., have purchased all of the stock, together with name, etc., of the well known McLean strain of Nonpareil Reds. McLean made a good record thruout New York, Connecticut and Massachusetts as regards winners, so we will, no doubt, hear more about the Hickory Farms. They are located just a few miles from the New Hampshire line at Townsend Harbor, Mass., and have a mighty fine plant.

To my mind Massachusetts has the best and poorest poultry plant in the entire country. But taken as a whole, there are some mighty fine plants.

WINNERS in all Egg-Laying Competitions :

English 200-Egg Strain

S. C. White Leghorns **White Wyandottes**
S. C. Rhode Island Reds **Buff Orpingtons**

"World's Champion Layers"

Our Certified Contest Records are PROOF

Leghorns—Highest Award North American Egg-Laying Contest, five hens laying 1139 eggs. 100 pens competing. English cockerel sired hen with official average of 314 eggs.

Reds—Highest Award in their class, North American Contest, five hens laying 1043 eggs, 209 average. Highest official Red record we know of.

White Wyandottes. Missouri Contest, our ten laid 2006 eggs, one laying 265 eggs.

Write today for Free Book, "The Story of the 200-Egg Hen," full of valuable information.

THE PENNA. POULTRY FARM
Box A, Lancaster, Pa.



The home of

Heavy Laying LEGHORNS

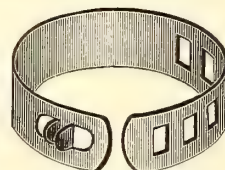
BRED to "Shell Out" Eggs, in Winter, and do it.

One flock of 200 paid us \$5.62 each per year. You can do as well.

Guaranteed fertile hatching eggs and stock at let-live prices. Illustrated catalog. Write.

OSEE C. FRANTZ FARMS
ROCKY FORD COLORADO

ADJUSTABLE CLINCH BANDS



None better made. 25-20c; 50-35c; 100-65c; 200, \$1.00; 500, \$2.25. Numbered as desired. Also colored **CELLULOID RINGLETS** 25-25c; 50-40c; 100-70c; 200, \$1.25. Mention breed.

FRANK CROSS

Box 506, Montague, Mass.



CAMPINES SILVER GOLDEN

The Egg and Money Makers

A number of real classy birds for sale at bargain prices. Write me your wishes. I sure can please you. My book, "Campinology," and two color-plates for ten cents.

J. FRED N. KENNEDY

Box F Birch Cliff, Ont., Can.



WHITE WYANDOTTES

Choice winners for any show in the world. Breeders of the same quality. You'll be pleased if you invest with Nixon. A quarter century experience.

CHAS. NIXON, Judge and Breeder, Box 2, Washington, N. J.



70 EGG INCUBATOR \$5.50 FREIGHT PAID \$5

Here's the best incubator offer on the best incubator. Guaranteed to hatch equal to any \$15.00 machine.

1916 RELIANCE Incubator

Best built—double walls, hot water heat, copper tank. Full equipment—lamp, regulator, thermometer, etc. Freight Paid. Order today on Satisfaction or Money Back Guarantee—or write for literature. We make Brooders, too. **RELIANCE INCUBATOR CO., Box 50 FREEPORT, ILL.**

RED SUSSEX EGGS HALF PRICE

Single setting rate May 1. Write for mating list.

W. F. FRASE
Route 21 East Akron, Ohio

Mention AMERICAN POULTRY JOURNAL when writing to advertisers.

Always thought that these leg band people had their goods manufactured, but find I am wrong. Called on all three of the following and find that they buy their aluminum in rolls, but the real making of the bands is done in their own plants. Here they are: Bourne Mfg. Co., Melrose, Mass.; M. M. Bruorton, Wakefield, Mass., and A. P. Spiller, Beverly, Mass.

The honor for greatest number of new buildings being erected goes to the Lord Farms, formerly known as "Everlay," Methuen, Mass. By the way, Mr. Lord informs me that right now he has more than fifty per cent more orders than at this time last year, so it shows what I have preached for some time. We are going to have the best year since 1910.

If some of the breeders would let their wives handle the office end of the business, there would be more sales at less expense. In nine out of ten cases they can write a better letter and more to the point.

Small advertisers do not mean small plants, as proven in the case of Mr. Roach, the Barred Rock pullet breeder, known as Bear Brook Farm, Wakefield, Mass.

Had the pleasure of meeting Mr. Bailey, the White Rock man of Wakefield, Mass. He has one of the coming plants of the state.

Called at Cornell Farm, Great Barrington, Mass. They were not at home, so did not get opportunity to see the place.

Regret that I did not get a chance to see "Uncle" I. K. Felch and Arthur Duston, two of the old guard.

Foxhurst Farm, Lime Rock, Conn., have a big surprise for our readers. It will no doubt appear in our February issue, so look it up, as it is real news for the poultry world.

Spent a pleasant Sunday with Chas. Hubbard of Lime Rock, Conn., and he showed me three (sport) Black Silkies. Asked friends Atherton and Drevenstedt about same, and they inform me that they are very rare.

At Buffalo, N. Y., visited the feed people, Globe Elevator Co., Chas. Cyphers, the incubator man, Dold Packing Company, meat scraps and feed, also Model Incubator Co.

Had the pleasure of going thru the big factory of the Hall Mammoth Incubator Co. at Little Falls, N. Y.

Have not fully covered Connecticut as yet, but so far the largest Red Farm is that of Payne Bros., Portland, Conn. This is another plant that is hollering prosperity.

Besides three small houses, the Rock Ledge Farm, Red breeders, of Southboro, Mass., are building a brooder house of one hundred and twenty-eight feet length.

Two real bred-to-lay farms that I have visited on this trip are: Miss L. C. Galbraith, Southboro, Mass., and Pinecrest Orchards, Groton, Mass., both of whom really trap-nest.

There is a movement on foot to elect W. H. Saart of Mirimichi Farms, Foxboro, Mass., president of White Rock Club, with Wm. Halbach of Waterford, Wis., secretary.

Here in New England we claim that the real fanciers of the country are our neighbors. There are some others around the country, but most of them reside here. There are so many that it is impossible to give all of their names, but I really think that these two are deserving of especial mention, for you find them exhibiting at every show. They are: Willow Tree Poultry Farm, H. P. McKean, Jr., Beverly Farms, Mass., and White Wyandotte Poultry Yards, H. J. W. Fay, Westboro, Mass.

The following people have been kind enough to extend me a very urgent invitation to visit their plant and I trust that by next issue I shall have a chance to do so, so that I may give my views: W. B. Atherton, Randolph, Mass., Rev. W. Berberich, Groton, N. Y., Bird Bros., Meyersdale, Pa., Sprecher Bros., Rohrerstown, Pa., Mrs. Hattie D. Reed, Marcellus, N. Y., Rosemount Farms, Franklin, Pa., J. W. Parks, Altoona, Pa., Sunny-side Poultry Farm, Bristol, Vermont.

If your yards are short on shade, take two pieces of wire netting seven feet long and five feet high, nail same on wooden frame, set up in form of house and cover with several thicknesses of corn stalks. You will find it proof against sun and rain. The idea was originated by Harold Tompkins, the Red breeder of Concord, Mass.

Champion Gladstone Strain

S. C. Rhode Island Reds

Gladstone
Strain
Winners
Madison
Square
1915-1916
Boston, 1916

We Have the Stock You Want.

Type, Color, Shape and Vitality

Cockerels and pullets ready to ship. Describe what you want. We will refund money without red tape if not satisfactory.

ROCK LEDGE FARM, SOUTHBORO, MASS.

Winner
of
Champion
Challenge
Cup
Boston
1916

Victory in the South At the great Memphis Tri-State Fair, Sept. 25 to 30, in one of the strongest and best filled Orpington classes ever cooped in the South

The Middlemarch Champion Strain of Buff and Black Orpingtons

adds another name to its long list of winnings at shows of National reputation, such as Chicago Coliseum, Birmingham, Memphis, Milwaukee Auditorium, Sioux City, Minneapolis and Fargo, where only supreme quality and expert conditioning can stand even a chance. I have never had such beautiful specimens to offer as I have for the present show season. Negotiate early, and I will win for you.

JESSE F. GORDON Box 536, Spring Valley, Minn.



Rancho Del Martino—Winner of Every First Prize, Panama-Pacific

SINGLE COMB WHITE LEGHORNS

Our Birds are Winning for Our Customers Wherever Shown.

Breeding Cockerels from Trap-nested Hens.

Exhibition Birds for the Fall and Winter Shows

Write for free Illustrated Catalog and descriptive Price List

MRS. E. B. MARTIN

P. O. Box N

DOWNEY, CALIFORNIA

BAWDEN'S Buff Plymouth Rocks

Sunlight Strain. Send \$5, \$10, \$15 for Cockerel on approval. Write me your wants. I can please and satisfy you.

J. BAWDEN, Box 20,
Ridgetown, Ontario, Canada

You Can't
Beat 'Em

Lee's Columbian Wyandottes

Win highest honors at Illinois State Fair, Northern Illinois Fair, and Lake Forest Fair, 1916. Selected breeders and guaranteed winners for sale in Cocks, Hens, Cockerels and Pullets reasonable. Write me your wants—I will satisfy.

LEO A. LEE

4840 Belle Plaine Avenue

CHICAGO, ILLINOIS

White Leghorns

SPECIAL prices on Cockerels and Yearling Hens. Choice Light Brahmas and Rouen Dux. Mention American Poultry Journal.

C. C. NYE, Box A, Harristown, Illinois

American Dominiques

Bred to lay—and bred from birds which won Blue Ribbons at Boston, 1915 and 1916. Write for prices.

C. W. BESSE, JEFFERSON, MAINE

Imperial Buff Wyandottes

Prize Winners. COCKERELS—farm reared—PULLETS. Winners for any show. High class breeders.

W. F. SCHULTZ, Box 97, Cuyahoga Falls, Ohio

New York and
Chicago First

Lack of space will not permit me to go into details with all plants, but of the many I have visited, the following are really worth mentioning: C. F. Webster and E. A. Lichtenwalter, of Girard, Penn.; J. F. Van Alstyne, Castleton, N. Y.; B. G. Mac Candie, Canastota, N. Y.; also A. Fisher of the same place; H. Dufrane, Cohoes, N. Y.; Geo. W. Tracy, Kinderhook, N. Y.; W. J. Wallace, Westfield, Mass.; A. F. Tilton, Rockland, Mass.; J. Van Holten, Pittsfield, Mass.; Morey Bros., Milford, Mass.; Plymouth Rock Squab Co., Melrose, Mass.; Spring Farm Poultry Co., Littleton, Mass.; J. H. Jackson, Hudson, Mass.; Lester Tompkins, Concord, Mass.

Are you prospering? Are your efforts bringing results? If not, perhaps American Poultry Journal can help you in the way of preparing your advertising copy and sales letters.

SEEN AND HEARD IN THE MID-WEST

BY SHEPARD STRONG

We have recently visited a number of the more prominent fairs of the Middle West and are pleased to note that they were a decided success. It is especially gratifying to note that American Poultry Journal advertisers report the demand for their stock to be ex-

of the show. However, it must be said that there was a falling off in some of the less popular varieties, due largely to an arrangement of the premium list, which was admittedly ill-advised. This unfortunate circumstance, we are given absolute assurance, will be corrected next year and our information comes from the highest authority that this show, which has adopted for its slogan, "It's great, let's go," will add still greater laurels to its already high reputation. Chas. McClave, New London, Ohio, who has set the rather remarkable record of having exhibited for thirty-eight years in succession at Ohio State Fair, had the honor of winning on his first prize Dark Brahma cock the special offered for the best male in the show, any variety. He was not satisfied with this, however, as he won also the largest number of regular prizes of any exhibitor of the show, among which may be mentioned 1st hen and 2nd old pen in an exceedingly strong



FIRST AND SECOND PRIZE WHITE ROCK HENS, NEW YORK STATE FAIR SEPT. 1916
BRED AND OWNED BY WILBURTHA POULTRY FARMS TRENTON JUNCT. N. J.

Do you give your manager credit for what he does? History teaches us of the great soldier, who, using his "trustworthy sword," heaved down the foes and made way for his armies' victory. His courage, strength and purpose was indeed heroic. But do we hear anything of the poor "blacksmith" who made that trusty sword, so keen and strong that it would not dent or break? Your manager is the big cog in your success, don't forget to give him credit for what he does.

Once more we say, answer you inquiries on a typewriter.

ceedingly heavy and that request for increased space for the ensuing year is practically universal.

The 66th annual Ohio State Fair was held August 28th to September 1st. The weather was most auspicious; this, coupled with the most excellent publicity campaign conducted under the direction of Manager W. H. Kinnan, resulted in the largest attendance in many years. The quality in the more prominent poultry class was of a high order and competition was keen. The fine condition of feather of the old birds and the finish of the young in a number of varieties was the talk

class of Barred Rocks, 1st R. C. Rhode Island Red hen, five firsts on Light Brahmas and four firsts on S. C. Brown Leghorns.

The White Rock class furnished one of the sensations of the show, being strong in numbers, with quality simply great. U. R. Fishel, of Hope, Indiana, in competition with a number of well known breeders, won all firsts and seconds in the single bird classes and first on old and young pens, his first prize cockerel and pullet being awarded the specials for the best cockerel and pullet respectively in the American class. Important winners of balance of White Rock awards were: A. G. Spahr and Pierce and Cushion;

The Kellerstrass Crystal White Orpingtons

AND OUR
Buff Orpingtons
R. C. R. I. Reds
S. C. R. I. Reds
White Wyandottes
White Leghorns
White Rocks
Barred Rocks
Turkeys
Water Fowl

Make the Greatest Win in History at the Iowa and Nebraska State Fairs

The Big Iowa State Fair of 1916 brought out 2,600 of the best fowls of Illinois, Indiana, Ohio, Missouri, Nebraska and Iowa. In the best of competition our birds won 39 first prizes, including five out of six firsts on White Orpingtons, 2 firsts and 2 seconds from four classes in Buff Orpingtons, and four first prizes on Reds. Our 1st White Orpington pullet was the silver trophy champion female of the whole English class.

At Nebraska State Fair, with 3,162 fowls actually on exhibit and in competition, our winning record was even better than at Iowa. We made practically a clean sweep on Buff and White Orpingtons, White Wyandottes and S. C. Rhode Island Reds. Our record on White Holland and Bronze turkeys at both fairs was never equalled. Our first and second prize hens in White Leghorns were the wonder of the show room. Free catalog and special fall price sent on request. Hundreds of birds for sale at reasonable prices. Every fowl guaranteed to please, or no sale.

THE 1733 RANCH, Russell F. Palmer, Manager

R. R. 6, Box 2, KEARNEY, NEBRASKA



a number of exhibitors failing to get a place because of the keenness of the competition. Buff Wyandottes were another quality class. B. M. Owens winning five firsts, one second and two thirds, and Dan C. Meek receiving four seconds. Partridge Wyandottes came out strong, Mrs. Donna Hanley being a heavy winner. The balance of American class was strong especially in Barred Rocks, Rhode Island Reds and White Wyandottes.

S. C. White Leghorns were extra fine. J. W. Friesner & Son, Bremen, Ohio, won 1st cock, 1st cockerel, 1st pullet and 1st and 2nd young pens, the first prize cockerel being awarded special for best cockerel in Mediterranean class. Louis H. Perry, of Clay, N. Y., sent in a great string of R. C. White Leghorns, which won all firsts, excepting pullet, which went to Chas. McClave. S. C. Black Minorcas were grand in quality. John L. Brown, of Anderson, Indiana, being the heaviest winner. His first pullet won the special for best pullet in the Mediterranean class. R. C. Black Minorcas were unusually fine, Dan C. Meek, of Coshocton, Ohio, winning three of the five first prizes.

Golden Campines were few in number but of fine quality, winnings principally going to C. M. Battles. Orpingtons were extra fine, the first prize Black Orpington hen owned by Carl E. Schmidt, of Oscoda, Michigan, was awarded the special for best female any variety, in the show. Turkeys and water fowl, as is usually the case at this show, were extra good.

The Newtown Giant Incubator Company had an attractive display of incubators in charge of P. S. Martin, the manager of their service department.

Special mention should be made of the extensive and instructive Ohio State exhibit consisting of models and drawings of the most useful types of all kinds of poultry houses and equipment for same, which was in charge of Prof. Jacoby.

The writer spent Labor Day visiting the poultry department of the Cleveland Exposition held at Edgewater Park. We found a really good quality show of about 500 birds. H. C. and C. W. Sixt, of West Park, Ohio, showed a strong team of White Wyandottes and S. C. White Leghorns and made a strong winning. Their birds are evidently bred to lay as well as to win, as their first prize pen of White Leghorns laid three eggs the day we were at the show. E. M. Billings, of Elvira, Ohio, ran into strong competition in S. C. and R. C. Reds, but cleaned up nicely by winning 6 firsts and 4 seconds. J. O. Somers, Bedford, Ohio, was a consistent winner in Anconas. Chas. McClave lined up a strong team of land and water fowls and was awarded 75 first and 26 second prizes.

The poultry show at the Indiana State Fair, Indianapolis, Ind., was one of the largest and finest of the season. The poultry building was filled to overflowing and was one of the main centers of attraction on the fair ground. The Plymouth Rock classes were large and quality very fine for the season of the year, notably the White Rocks, in which the grand team of U. R. Fishel was distinguished by its brilliant winning. White Wyandottes constituted one of the grandest classes ever seen at any show. L. J. Demberger, Stewartsville, Indiana, and J. C. Fishel & Son, Hope, Indiana, making heavy winnings. Balance of American class very good.

There was a strong class of Light Brahmas. Black Langshans were numerous and of high quality, notably the fine team shown by Mrs. Bernice Barrett, of Fortville, Ind.

Brown, White and Buff Leghorns were large classes of good quality. A superb string of S. C. Black Minorcas was shown by John L. Brown, Anderson, Indiana.

Buff Orpingtons, numerous and of good quality. The Woolery Farm, Bloomington, Indiana, made a great win in a strong class of White Orpingtons. Black Orpingtons not so numerous but winners of fine quality.

Indiana seems to be quite a hot-bed for Sussex and there were good classes of Red and Speckled. There was a big showing of both Game and Ornamental Bantams. We regret that lack of space prevents us from publishing full awards in this issue.

At the Kentucky State Fair, Louisville, Ky., the well-staged poultry show attracted much attention and we found here a high grade quality show. The judging was done by Henry Dipple and H. A. Pickett, who handled their classes in a highly creditable manner.

The Barred Rock class was one of the best we have seen this season. Pope & Pope, Louisville, Kentucky, set up a grand string of birds and won 5 firsts, 4 seconds, 5 thirds, 1 fourth, 1 fifth and special for best display of this variety. White Rocks, a wonderful class, and it was an honor to receive even a place, so keen was the competition. Among the more prominent winners was L. P. Doerhoefer, Anchorage, Ky. Buff and Partridge Rocks were nice classes. S. C. Rhode Island Reds were of high class quality. Chiles and Company, of Mt. Sterling, Ky., exhibited a small string only, but won 1st cock, 2nd hen, 1st cockerel and 4th pullet. Balance of

American classes and also Asiatics were good. White Leghorns were out in great numbers and quality. Special mention should be made of the wonderfully fine 1st cockerel and 1st pullet shown by Glory Anna Poultry Yards, Louisville, Ky.

We attended quite a few other fairs, but owing to lack of space allotted us, can make no comment in this issue. At one of these which, for obvious reasons we will not mention, we found there was a clause in premium list limiting each exhibitor to competition in eight varieties. This was done, so I was informed, in order to keep out big string exhibitors and so improve (?) the quality of the show. The result of this policy was that three exhibitors with miscellaneous birds, mostly of third class quality, saw their opening, as they judged rightly, that stringing with birds of good quality would stay away and that, as the entries didn't close until the first day of the fair, they would take the chance of showing and persuading the officials to remove the eight variety rule or else to show their whole string by entering eight varieties in each of their sisters' and cousins' and aunts' names. Well, the rule was rescinded and another show, that might otherwise have been good, was spoiled simply for the reason that the competition was not free and open to all. If it had been, the exhibitors whose birds constituted a good part of the show would never have taken the chance of showing.

At another fair, there was a rule stating that no entries would be received from hucksters or anyone else not a regular breeder. We asked the superintendent as to who was responsible for the writing of the poultry premium list and he claimed full authorship of it. This same gentleman happens to be the owner of the local poultry and bird store and he seemed quite proud of the fact that he had sold for \$2.50 the male that won special for best male bird in the show. Doubtless he even made a profit by the transaction even at this price or I over-

estimate the ability of the man as a dealer. Now, I do not want to cast any discredit on this gentleman, as he really handled the show in fine style and showed every courtesy to the exhibitors and visitors, but the point is, what is the definition of a "huckster" or "huckstering" as applied to poultrydom?

The Ohio Leghorn Club has recently been organized and already has a membership of over twenty of the most prominent breeders of the state. It has for its object the fostering of the best interests of Leghorns, all varieties, and besides its regular officers, is to have a vice-president for each variety. The officers are: C. W. Sixt, President; D. D. Whittaker, Cuyahoga Falls, Ohio, Secretary-Treasurer; and Vice-Presidents, Dr. R. H. Lindhorst (Black Leghorns), C. G. Moore (White Leghorns), J. E. Gault (Brown Leghorns), and G. J. Gable (Buff Leghorns).

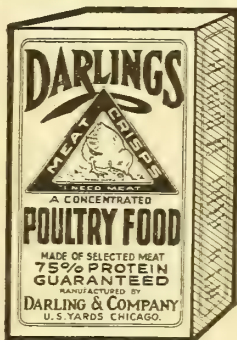
There is room for nothing but facts in the advertising columns of the American Poultry Journal. READ THEM!

LEG BANDS

10 Different Colors
Samples Free

Last life time. **Best! Cheapest!** 100 for 70c. State breed. **No-More-Lice** keeps roosts free of mites and lice whole year without spraying. Guaranteed or money back. 50c postpaid. **PERFECT POULTRY SUPPLY CO., Box 5465, LYNBROOK, N.Y.**

FREE



Here Is the Secret of Winter Egg Profits!

"Get the pullets started to laying before cold weather. When they go into the winter houses, make them eat all they possibly can; have dry mash and high grade meat feed always before them; the more they eat, the better, just so long as the meat feed in the ration is high in protein and is clean and digestible." The most perfect and economical form of meat feed is

DARLING'S MEAT CRISPS

This feed is made from selected meat trimmings collected daily in the Chicago markets. It is cooked the same day at 350° Fahr., thoroughly removing all grease and foreign matter. After drying it is ground into uniform particles. It is a sweet, clean, odorless concentrate of fresh meat. We guarantee it to contain 75% digestible protein. Packed in moisture proof cartons and wooden pails.

Poultry Book FREE

This book, entitled "Feeding Secrets of Famous Poultrymen", will give you more information about **Winter Egg Production**; Pushing Late Pullets; Making Eggs that Hatch; Feeding for Exhibition, etc. It tells the cause and cure of common poultry diseases, and in addition contains a lot of other valuable information. It describes Darling & Company's other poultry feeds. Write for your free copy today.

DARLING & COMPANY, DEPT. 2 U. S. YARDS CHICAGO



GOLDEN PENCILED HAMBURG

The Fancier's Fowl. Won the Principal, Regular and Special Prizes at Madison Square, Boston, Palace. A few birds for sale. No eggs.

JOHN A. GAMEWELL :: Box 2 :: LITTLE SILVER, N. J.

ROSE AND SINGLE COMB RHODE ISLAND REDS

Are you going to show this season? Do you want to win? If so, buy your Reds from a breeder of experience. Never had better youngsters than this year. We will ship anywhere on approval upon the receipt of 40% of purchase money. Remember, I have no other breed. Write your wants.

RED TOP POULTRY FARM, John G. Spencer - Route 2 - SHARPSBURG, PA



BARRED PLYMOUTH ROCK YOUNGSTERS OF 1916.
FROM FIRST PRIZE PANAMA PACIFIC EXPO. AND CHICAGO WINNERS
BRED AND OWNED BY LUTHER J. HALL, KENNEY, ILLINOIS

Barred Plymouth Rocks before they are matured seldom show up to any advantage in pictures. Once in a while, however, when the birds are of exceptional quality, it is possible to make pictures that really do full justice to the breed. The above unretouched photographs of Luther G. Hall's, Kenney, Ill., birds speak for themselves and further comments are unnecessary.—L. A. S.

Single Comb and Rose Comb

White Leghorns

We have several hundred Single Comb pullets for sale at reasonable prices, all of the same blood as our Wisconsin State Fair winners. Also a few S. C. and R. C. cockerels. Write me your wants.
MRS. H. C. ROGERS, Riverside Poultry Farm, R. F. D. No. 6, Oshkosh, Wisconsin

Gassmann's White Orpingtons

Eggs for hatching from Chicago and Illinois State Fair Winners. Mating list free.

HENRY GASSMANN

502 S. Fair St.

Olney, Ill.

The Ohio Valley Poultry Association Co. will hold its annual show at Marietta, Ohio, January 22-27, 1917. J. E. Gault, judge. For premium list and full particulars write the secretary, T. N. Fenn, Marietta, Ohio.

The Wabash County Poultry Association will hold its third annual show at Mt. Carmel, Ill., December 4-9, 1916. Geo. H. Northup, judge. Dr. R. C. Bell, sec. Mt. Carmel, Ill.

The National Black Langshan Club of America offers handsome club ribbons at all state and county shows upon request and a handsome silver cup to show in each state that has ten or more members. All Black Langshan breeders are urged to join. Dues \$1.00 per year.—H. A. Reasner, sec'y, R. R. H-2, Box 283, Indianapolis, Ind.

The National White Wyandotte Club will hold its annual club meet in connection with the annual show of the Michigan Poultry Breeders' Association at Detroit, January 9-14, 1917.

WHITE LEGHORN EGGS

From pens headed by Chicago and St. Louis winners. Place your order today. Free catalog.

G. J. Gerber, Box 188, Dalton, Ohio

A. C. WILLIAMS, Ravenna, Ohio

Speckled Sussex and Buff Orpingtons

BUFF ORPINGTONS

The Great Prize Winning Strain

Highest honors won at America's leading shows including Madison Square Garden, Chicago and Panama-Pacific Exposition. Do you want to win? I can furnish you with grand birds that will win for YOU at fair prices. Write me for particulars. O. M. ABBOTT, Box 10, Whiteland, Ind.

DID YOU READ the editorial on page 1128 October A, P. J. Carrying out the idea of this editorial, we make the following offer to the breeders of Massachusetts and Connecticut: We have several rebuilt and second hand typewriters, fully guaranteed in every way. You can have your choice of the following makes:

Underwood, Oliver,
L. C. Smith, Royal.
All rebuilt machines are

All second hand machines are Remington, Blickensderfer, Smith Premier.

\$35.00

\$15.00

No notes to sign, no mortgage, just fill in the coupon below and return to us with \$5 and your typewriter will be shipped at once. Be sure to state if you want rebuilt or second-hand machine.

COUPON

New England Typewriter Exchange,
847 Main St., Hartford, Conn.

Please ship me a..... (State if rebuilt or second hand) (Make of typewriter)

Typewriter, for which I agree to pay you..... I enclose first payment of \$5 and agree to send you \$5 each month, until the full amount is paid. It is understood that the title to said typewriter shall remain in your name until I have paid the full amount of the purchase price.

Name.....

Address.....

City..... State.....

ESTABLISHED 1913

Don't Feed Green Food!

Do away with the bother by using
Succulenta Tablets

They are better, cheaper and more relished by all fowl. Simply dissolve one tablet in one quart drinking water for fowl. A full egg basket is assured. Can of 100 large tablets by mail, \$0.50
" 250 " " " " 1.00
" 500 " " " " 1.75
" 1000 " " " " 3.00
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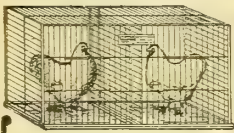
Write for particulars, giving your dealer's name, to the
SUCCULENTA CO., P. O. Box 405-1, Newark, N. J.



45 Varieties

LAND AND WATER FOWLS
Send for free illustrated catalog, which tells you much you should know. Stock and eggs at all times. Mention A. P. J.

S. A. HUMMEL
Box 52 Freeport, Ill.



COOPS

Clean, handy, vermin-proof, galvanized wire electric welded. Standard at all exhibits. Shipped by parcel post. Outfits rented to bench shows.

KEIPPER COLLAPSIBLE COOPS
Write for illustrated catalog and attractive prices.
KEIPPER COOPING CO., 1401 First St. Milwaukee, Wis.

SCHUMACHER

Scratch Grains

Rich in Protein and Carbohydrates—makes hens lay better.

Chick Feed

Contains Oatmeal—makes big, healthy, fast growing chicks.

THE QUAKER OATS CO. CHICAGO, U.S.A.

HAPPENINGS of INTEREST

in the POULTRY WORLD



Five double-deck Newtown Giant incubators, having an aggregate capacity of 102,000 eggs, will be installed on The Niagara Poultry Farm at Ransomville, N. Y., by the Newtown Giant Incubator Corporation of Harrisonburg. The order, which is the largest single contract ever placed with any manufacturer for hatching equipment, was closed recently with the W. R. Curtiss Company, proprietors of the farm, by G. R. Spitzer, sales manager for the incubator corporation. The price of the equipment is \$11,020.

The cellar on the farm, now in course of construction to house this gigantic hatching equipment, will be forty-eight feet wide and 170 feet long. Only half of this space will now be required, but it is the intention of the purchasers to increase the hatchery as their business demands.

Each machine when erected will be seventy-five feet long and consist of an upper and lower deck. The hot water heating system, with which each of these large incubators is equipped, will be of sufficient capacity to comfortably heat a large dwelling in the coldest weather. Each machine is operated by a coal-burning, self-regulating heater.

SILVER WYANDOTTE ANNOUNCEMENT.

Silver Wyandotte breeders have been more than active during the fall shows, exhibiting at the Fairs many a bird that would have been a prize winner at the larger winter shows, and this season will see some wonderful birds on exhibit. The Silver Wyandotte Club of America is pushing the Club and State shows and the list of premiums offered at the Chicago Show, December 13-18, will undoubtedly equal that ever put up, running probably to fifth and sixth places, and including many cash premiums. For the state shows the club is offering beautiful silk ribbons and handsome lapel buttons in three colors, to be competed for, of course, by club members, who should send their application or renewal, with \$1 membership fee, to the secretary, Clara E. Hoffman, Allegan, Michigan.

The annual National meeting of The American Single Comb Brown Leghorn Club will be held in connection with the St. Louis Show, Thanksgiving week, November, 1916. The president of the club, Mr. Tormohlen, will again judge at the National meet. The Western members of the club have promised to show true Western hospitality to all breeders whether members or not and it is predicted freely that this will be a record breaking event.

The fourth annual show of the Gloucester County Poultry Association will be held on December 8th and 9th, 1916, in the Town Hall, Woodbury, N. J. All of our shows so far have been better than the preceding one and all present indications point to a larger and better one this year. Entries close Wednesday, November 29th, 1916. Address all communications to L. Cheesman, Show Sec'y, P. O. Box 22, Sewell, N. J.

CURTISS UT CLOVER

Free from long caky stems so prevalent in all other green foods; 75 per cent heads and leaves; sifted thoroughly to take out waste. ACTUALLY CHEAPER THAN EVER BEFORE. Feed it; increase your egg yield, reduce your feed bill and MAKE MONEY.

Baby Dux and Choice Breeders
Yearlings and young. Prices right.

BABY CHIX—3 Weeks Notice
For soft meat roasters and winter broilers.

Eggs for Hatching
Leghorns, Wyandottes, Rox and Reds, Pekin and Indian Runners and White African Guineas. 32 years in poultry business.
W. R. Curtiss Co., Niagara Farm, Ransomville, N. Y.

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The Phenomenal Egg Producer

Panama-Pacific International Exposition

FOUR FIRST PRIZES

Exposition Sterling Silver Cup and Championship for Male and Female.

Eggs and Sock for Sale

A. Schwarz Box 421 Burlingame, Cal.

GEM Exhibition COOPS



Endorsed and used by Ohio, Ia., Wis., and other state colleges. Made of wood and canvas with pat. sliding front. Light weight, sanitary and collapsible. Used for a quarter of a century by breeders and associations. Water cups free with every coop. Coops for show associations a specialty.

Gem Mfg. Co., Box 38, Greenville, Ohio

Illinois Pigeon Lofts

My Jacobins, Pouters, Fantails and Record Homers have won at the leading shows in the West. Thirty-five varieties, several hundred birds for sale. Write me your wants.

CHARLES A. BARTLING
108 E. Mason Street, Springfield, Illinois

Special Introduction Sale of Fountains

Price will be advanced to 75c each, Dec. 1st. We offer the best 2-gallon Metal Poultry Fountain made, for each, postpaid, East of Miss. 60c. This low price is made possible by up-to-date methods of manufacture. The cut herewith gives some idea of our fountain which is easy to fill, carry and clean, and will not burst from freezing.

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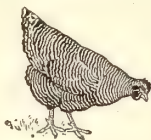
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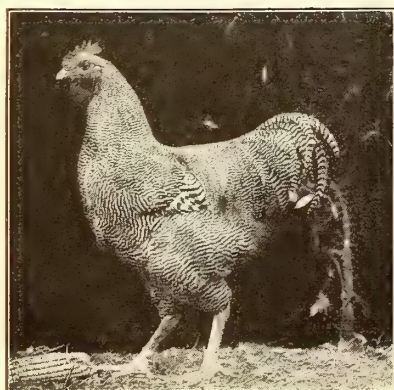
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Associations and Shows

Secretaries are Requested to Send in News Items of Interest About Their Shows for This Department

JUDGES' SECTION OF THE AMERICAN POULTRY ASSOCIATION.

The forty-first annual convention of the American Poultry Association, held at Cleveland, Ohio, August 7-11, will go down as one of the best meetings in its history. A new feature was the department meetings, where permanent organizations were launched, and great good is sure to be the outcome. Over fifty poultry judges were present, when ways and means were devised to form a Judges' Association, and never has there been so much real enthusiasm at any previous meeting where a judges' club or association has been talked of. A permanent organization, known as the Judges' Section of the American Poultry Association, was organized on Wednesday, August 9, with a charter membership of thirty. The officers are as follows: President, Charles McClave, New London, Ohio; vice-president, J. H. Drevenstedt, Buffalo, N. Y.; secretary and treasurer, W. C. Ellison, Elma Center, N. Y.; board of directors, Edith L. Masten, Pleasant Valley, N. Y.; Mrs. Florence Forbes, New Decatur, Ala.; D. T. Heimlich, Jacksonville, Ill.; O. L. McCord, Peoria, Ill.; J. E. Gault, Chippewa Lake, Ohio. With such an efficient set of officers, backed by the association to a member, there will be no such word as fail. The objects of this club are many. Primarily, to secure a more uniform system of judging; to help the inexperienced judge to become proficient and able to secure his license; to get together once a year; have heart to heart talks and in this way work for the good in general,—handle as a body any matter pertaining to judges or judging—that is, in a form of complaint or adjustment, and many other things will be featured; but, above all, the object of the association is to weld the friendship of all the judges and promulgate fraternalism and closer alliance. Poultry shows, fairs and expositions will be supplied with the association list, and also other information given that is desired. Great good will be the ultimate outcome and we predict wonderful benefits for our brother fanciers and poultrymen thru our closer co-operation and fellowship. There are over three hundred licensed American Poultry Association judges, composed of men and women that have devoted the better part of their lives to this work, and who, we feel confident, will all be ready and willing to join, so as to help boost this good cause. All judges who have not joined should get in touch with the secretary at once.—W. C. Ellison, secretary, Elma Center, N. Y.

ILLINOIS STATE FAIR POULTRY SHOW.

The Illinois State Fair Poultry Show, which was held September 15th to 23rd, maintained its usual high standard both in quality and in the number of birds exhibited. The Illinois Poultry Exhibit has been for years the acknowledged leader among the Western fairs and under the able management of Judge Jerome Leland of Springfield will undoubtedly continue secure in its hold on first place. The entries were even larger than ever this year and it was necessary to house several hundred of the fowls in tents adjacent to the poultry building.

Rumor has it that the State Fair management has appropriated \$25,000 for an additional poultry building or the enlargement of the present structure. It is to be hoped that this has been done, for there has been a crying need of it for many years. We understood that it was necessary to refuse

many additional entries this year owing to lack of space. Next year with more exhibition room there is no reason why the Illinois State Fair Poultry Show should not rightly claim the title of the "Hagerstown of the West."

A large number of prominent fanciers exhibit from year to year at the Illinois Fair and it is always a show where competition, particularly among the popular breeds, is unusually keen and quality exceptional for the time of year. In this connection we can give concrete examples by naming the S. C. White Leghorns, Barred Rocks, White Wyandottes, Columbian Wyandottes, Rhode Island Reds and Orpingtons at this year's fair. Many among the above named varieties were in mid-season form.

To delay increasing the poultry show accommodations at the State Fair will, to a certain degree, retard the advancement of poultry culture in the State of Illinois, for it is at the State Fair you reach the farmer in person and thru the excellence of the poultry exhibit impress him with the advantages of the pure bred fowl over the mongrel.

CARD OF APPRECIATION.

The Allentown Fair Poultry Show, thru its superintendent, W. Theo. Wittman, wishes to express its hearty appreciation of the uniform courtesy and fancier-like spirit of its exhibitors and patrons as shown at its show September 19-22, 1916. The volume of entries was remarkable and this mark of confidence in Allentown was especially appreciated. Never in its history have the birds arrived so early or so promptly or been in as good physical condition as this year or the quality been better. There was absolutely no kicking on the judging, emphasizing the good sense and courtesy of the exhibitors. And lastly, the dozens of letters received from exhibitors expressing satisfaction with the prompt way the birds arrived home, correctly and in fine condition, was duly and fully appreciated after we had again succeeded in starting all birds home Friday and without the misshipment or loss of a single specimen.—(Signed) Great Allentown Fair Poultry Show, W. Theo. Wittman, Supt.

Every exhibitor within reach of Fort Wayne who plans to make a showing of his stock this season will do well to send his name and address at an early date to J. C. Howenstein, the secretary-treasurer of the Great Triangle Poultry Show, which will be held from the 17th to the 21st of January, 1917. Last season's Triangle Show at Fort Wayne was one of the best in the country, and exhibitors who placed their birds on exhibition are loud in their praise of the treatment they received from the men who are giving Fort Wayne a good name thruout the poultry world. This season's show promises to eclipse last year's event, which means that the men in charge will have to work mighty hard. The judges are H. A. Pickett, George H. Northrup and C. E. George, J. C. Howenstein, the secretary-treasurer, states that the premium list will be ready for mailing December 10.

In connection with the New Orleans National Farm and Live Stock Show, there will be held, November 16-19, a poultry exhibition of high quality. They are offering \$1,400 in cash premiums and nice line of cash specials and silver cups. For full particulars write R. E. Bruce, Supt. of Poultry, New Orleans, La.

SHOW BIRDS GALORE!

More than 2500 Aristocrat Barred Rocks are now growing up into superb, magnificent show birds. The Aristocrats are those wonderful birds which made such a truly

SENSATIONAL SWEEP OF VICTORIES

thruout all America last season—from Brooklyn, N. Y., to San Francisco, and from the great shows of Canada down to the Gulf—capturing **FIRST PRIZE** at such shows as Chicago, the World's Fair, Philadelphia, Norfolk, and scores and scores of other shows. This is one of the most **Victorious Campaigns** ever made by any strain in a single season. This great record gives force and power to the thought that

The Aristocrats Are Sure and Guaranteed Winners

Now—I ask you: Do you want to win this Fall or Winter? If so, sit down and write me, and we will make a deal that will safe-guard you absolutely.

W. D. HOLTERMAN, Fancier Box A **FORT WAYNE, IND.**
P. S.: This season the Aristocrats are even better than last year.

A BIG SHOW IN A BIG TENT.

The chicken fever is raging in the Tri-Cities and in order to accommodate the patients so afflicted, the Mississippi Valley Fanciers Association is going to pull off the biggest show at Rock Island, Ill., November 27th to December 3rd, ever held in this part of the country. This show will be held in a large tent, beautifully illuminated and well heated, located on Market Square, which is in the heart of the city, where thousands of people will pass daily. This idea is attracting attention of many breeders, as is shown by the number of inquiries already received. The attendance is bound to be large, which will assure many good sales. Fanciers will do well to get in on this big show, adequate help will be at your disposal at all times. The services of James A. Tucker and D. E. Hale have been secured to do the judging. Prepare your birds for this big show in the liveliest town in the Middle West, and write for premium list, which is now ready. Address M. O. McDannell, Sec'y, 1430 24th Ave., Moline, Ill.

THE BIG BOSTON SHOW.

Seldom has such strong interest in the Boston Show been shown so early in the season, and it indicates another big show for the Hub. The Cornish Club is coming strong and the American Barred Plymouth Rock Club is out for a topnotch entry that will make people sit up and take notice that this old favorite is still on the band wagon. The Hamburg Club is out to break their record of last year and the New England Bantam Club say that more room will be needed for the little birds. The American Light Brahma Club has selected Boston for their annual meet and plans are being made to make it the greatest event in the club's history. As usual, an attractive list of prizes will be offered, and the utility, egg, and dressed poultry division will receive the same generous support accorded it in the past years. Plan to be at Boston January 9-13, 1917.—W. E. Atherton, sec'y.

OF INTEREST TO BUFF WYANDOTTE BREEDERS.

The Illinois State branch of the American Buff Wyandotte Club will hold their meeting in connection with the Colliseum Show, Chicago, December 13th to 18th. There is a fine list of each and special prizes offered. Mr. Charles V. Kessler, Winamac, Indiana, will award the prizes in this class. There will be two classes of breeding pens, old and young. Fanciers who are interested will please send in their name for premium list at once. This list is now ready for mailing. Entries close November 25th.—Theo. Hewes, Secretary, 25 West Washington St., Indianapolis, Indiana.

The Quincy Poultry Association's next exhibition will be held November 28 to December 3. They have three of the best judges in the country and it is well known that more birds are sold at Quincy each year than any show in the state. They will again distribute both marked and official catalogs free, and will entertain every visiting exhibitor at a banquet and dance at Hotel Quincy. Catalog will be ready October 20. Write to A. D. Smith, Quincy, Ill., for copy.

The 11th annual show of the Unadilla Valley Poultry and Pet Stock Association will be held in Sidney, N. Y., December 4-8, 1916, and promises to be the best in the history of the association and they have had ten good ones. The entry fee is 50 cents, and the prizes \$1.25 and 75 cents, besides a long list of valuable cash and merchandise specials. For premium list ready in November, write the secretary, Archie E. Vandervort, Sidney Centre, N. Y.

The Chicago Pet Stock Club held a reorganization meeting with 32 members on Saturday, September 30th. The following officers were elected: President, J. E. Young; 1st Vice-President, L. F. Grafius; 2nd Vice-President, E. G. Condon; Secretary, George Eckert, 3224 N. Central Park Ave., Chicago. Watch us grow. Those interested should send one dollar to the secretary and become a member.

The Lanark Poultry Association are making plans for the largest show ever held in Northwestern Illinois. Judge F. H. Shellabarger will place the awards. Send your name for a premium list at once. Remember the date, December 4-9, 1916.—Mrs. J. A. Shaner, sec'y-treas., Lanark, Illinois.

The ninth annual show of the Fond du Lac Poultry and Pet Stock Association will be held January 4-7, 1917. D. E. Hale, judge. For premium list and full particulars address E. A. Sommerfeld, sec., Fond du Lac, Wis.

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Rich Mahogany Chickens

with all-purpose qualities—standard bred.

Elton C. Mahon, Norwood, Tenn.



Dirt Breeds Disease

You can scrub your poultry houses with soap and water till they shine like a new pin, but the germs that cause disease in your flock—the lice and mites that sap its vitality—will still be there. You can kill these germs and parasites and at the same time, without extra cost or labor, paint your building a snow white by using

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a snow-white mineral paint combined with a germicide 20 times stronger than pure carbolic acid, but neither caustic nor poisonous. Comes in powder form; ready, when mixed with water, to put on with brush or sprayer. Will not blister, flake or peel off.

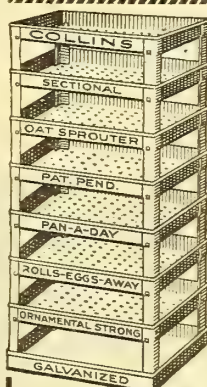
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in poultry houses, dairies, barns, cellars, pig pens, etc. Used and recommended by experiment stations, agricultural colleges and many of the largest poultry, dairy and breeding farms. Will not spoil by standing. Satisfaction guaranteed.

10 lbs. (10 gals.) for \$1 plus postage. 20 lbs. (20 gals.) for \$2 delivered free.
50 lbs. (50 gals.) for \$4 delivered free.

Your dealer will supply you. If not, send us his name and your order. Trial package, enough to cover 250 sq. ft. and booklet "The Disinfectant That Paints" for 25 cents.

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AT HALF THE USUAL COST

A Collins Oat Sprouter Sells for only **\$3**

but saves its price almost every day on the average feed bill. The only way that you can afford to keep hens this Winter is by buying a COLLINS SPROUTER and feeding sprouted grain. You provide at less than half usual cost, Fresh, Sweet, Green Feed, full of protein, the egg forming element. For lots of eggs feed the Collins way, and

MAKE YOUR HENS HEAVY WINTER LAYERS

I am the inventor of the most satisfactory, low-priced, quick-sprouting grain sprouter on the market. Hundreds now in use everywhere. Made of all galvanized steel. Knock-Down, Fireless. Three sizes; the Popular Size, 8 pans, 11x15 in., at \$3; small Back Yard Flock Size, 5 pans, 11x15 in., \$2; the big Breeders Size, 8 pans, 11x32 in., \$8. Delivered free East of the Mississippi River. West of River add 50 cents. West of Rockies \$1.

My sprouter must give complete satisfaction or I refund money after 10 days fair trial. J. A. Goodfellow, Flint, Mich., writes: "Your Oat Sprouter is certainly fine. I sprouted oats in 4 or 5 days. Last winter we had from 35 to 45 eggs per day from 54 pullets." **DEALERS SPECIAL PROPOSITION**—I'll send any responsible dealer, all charges prepaid a sample sprouter, with show card and printed matter. Display it. Make Sales, Order More. If unsold at the end of 60 days return to me. Customers supplied through their dealers or direct. Write for circulars and prices in quantities.

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PALMER'S BARRED ROCKS

By their thirty-four years experience and being line bred since 1882, by their record of almost as many first, regular and special prizes as any three competitors combined at Chicago, together with the fact that we have sold either winning show birds or breeding birds to almost all fanciers of note in America, outside of the extreme East, by our record at the last Illinois State Fair, where we won FIVE FIRSTS and best display, besides selling winners for many other state fairs and early fall shows, and the fact that this season we have hundreds of show birds of EVEN better quality than EVER before gives us the right to the claim of not only one of AMERICA'S OLDEST but one of AMERICA'S BEST STRAINS OF BARRED ROCKS. Do you want to win or get breeding birds at bargain prices that can produce winners? Then write us at once, stating fully what you want and we can furnish it. We know we can, for we have done it hundreds of times. We guarantee you satisfaction and know we can please you with birds to win in almost any show in any numbers. Catalog free. Write today stating fully what you want, and price you care to invest to D. F. PALMER & SON, Box 35 Yorkville, Illinois



S. C. White Leghorn Winners

Grand Cockerels and Pullets for sale. Bred direct from my Chicago Winners. Write today; every bird guaranteed to please. Free catalog.

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Rose Comb Black Minorcas

Some fine May-hatched cockerels for sale. No females of any kind to spare.
PHILIP J. MINCH, 1907 E. 97th St., CLEVELAND, OHIO

GLORY-ANNA S. C. WHITE LEGHORNS

Some extra choice exhibition and breeding cockerels to spare. Write for catalog and prices
547 South 4th Avenue G. E. SCHULZ, Prop. Louisville, Ky.

SUSSEX CLUB MEETING CHANGED.

During the Cleveland meeting of the American Poultry Association, the officers of the Sussex Club and prominent Sussex breeders got together and discussed the coming Club Show and Meeting. It had been decided to hold the annual Sussex meeting at Buffalo, Thanksgiving week. However, Buffalo has had to change the dates of its show to the second week of December. That means that Buffalo will conflict with the Coliseum Show

ing and every breeder is urged to enter at least one bird at the club show. In doing this, we can be almost certain to have a larger entry of Sussex than any other variety in the show.—F. L. Platt, Sec'y Sussex Club of America, Swanton, Ohio.

The 7th annual show of the Michigan Poultry Breeders Association will be held January 7-14, 1917, at Detroit, Michigan. The National White Wyandotte Club meet,

overlook this great show to be held January 10-16, 1917. It is going to be the largest and best show ever held in Chicago. Four National Club meets, viz., The S. C. White Leghorn Club, Partridge Wyandotte Club, Partridge Plymouth Rock Club, American Bronze Turkey Club and several state club meets. The best of judges in the best lighted hall in America. Send your name for premium list right now to D. E. Hale, Sec'y, 930 Monon Bldg., 440 So. Dearborn St., Chicago, Ill.



The main brooder house at Pittsfield Farms, 190 Main St., Holliston, Mass.

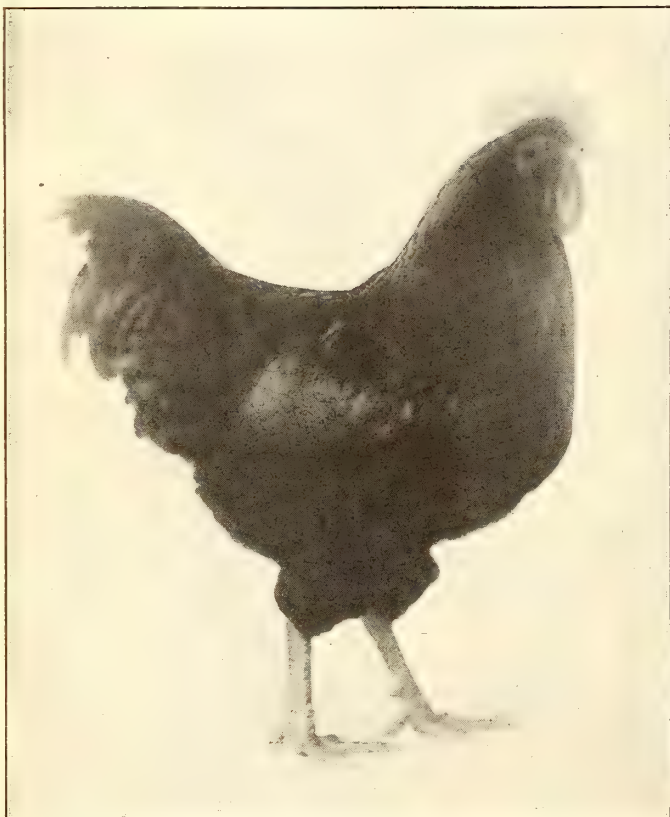
in Chicago. Several of the largest exhibitors of Sussex have entered at Chicago each year, and with Buffalo conflicting with Chicago, it looked like a difficult matter to get out a big class at the Club Show. Nothing is more important than a big enthusiastic Club gathering, and it has therefore been decided to hold the Club Show in connection with the Madison Square Garden Show, New York City. If possible, some specials will be offered at Buffalo, so that the small breeders who counted on showing there will not be disappointed. Three years ago the Sussex Club had a meeting at Buffalo, then went to New York and last year to Chicago, and in selecting New York again this year, the officers of the club have done what they believe to be the very best thing to do under the circumstances imposed upon us by the change in the Buffalo dates. Every breeder of Sussex is invited to attend the club meet-

which will be held during this show, promises to bring out a very large class. The Michigan Poultry Breeders Association offers \$170.00 and the National White Wyandotte Club offers \$100.00, making a total of \$270.00 in cash to be placed on White Wyandottes. This Association has also secured the State meet of the B. P. Rock Club and will, no doubt, have a large entry of B. P. Rocks. For full information write the secretary, F. M. Crowe, 923 N. Washington St., Owosso, Mich.

The premium list of the Greater Chicago Show will be ready November 15th. Don't

THE BIG WESTERN SHOW.

Prospects at present point to one or the largest exhibits ever cooped in the West. A cup for every variety and plenty of prize money has made success assured. The state meet of the American Poultry Association and Rhode Island Red Club, with F. H. Shellabarger hanging the ribbons, would make any show a success. Score card system of judging and the show held in two localities the same week appeals to the breeder that is looking for more business. Premium list now ready. Write the Secretary, Jno. L. Reid, Portales, N. M.



"Balboa," first, best and champion Partridge Rock cock at Panama-Pacific Exposition. Owned by Rockwood Farm, Box 1110, Norwalk, O.



Dan Palmer, Yorkville, Ill., has bred Barred Rocks for over thirty years. The unretouched photo above of one of his birds is a fair sample of the produce of his 1916 matings. This bird won at the Illinois State Fair this year.—L. A. S.

MADISON SQUARE GARDEN.

Our 28th annual exhibition gives promise of being one of the very best that the historic old Garden has housed. It certainly is gratifying to find that the fanciers of the country have enough confidence in my management to desire to continue their exhibits with us in even larger numbers than heretofore. The prestige of the Garden seems to be gaining year by year and one evidence of this is the desire of specialty clubs to meet there. This year the following clubs have already voted to hold their annual club meets in connection with our forthcoming exhibition: The Water Fowl Club of America with about 1,000 birds; the National Bantam Association, which will hold its 25th anniversary at the place of its birth, with about 1,000 Bantams; the Blue Orpington Club and the Sussex Club of America, and other clubs are now voting (like the National White Wyandotte Club), many of whose members desire to again meet at the Garden after an absence of twelve years, together with the International S. C. Black Minorca Club and the Paverolle Club. It is expected that the following Pigeon Clubs will also meet with us: The American Jacobin Club, American Fantail Club, the Swallow Club of America, International Magpie Club, the Turbit Club and the Owl Club. The Oriental Frill Club has already voted to come. In addition to this feeling of confidence that the fanciers show for the Garden I wish to say that never since I have been secretary have there been so many advanced requests for premium lists. In this connection I want to warn Specialty Club Secretaries that their offers cannot be printed in the premium list unless they are received by October 1 next. Our policy of paying all premiums and specials during the course of the show applies to Specialty Club awards and we do not intend to promise anything that we cannot deliver during the show. The Pigeon department will be in charge of that veteran and experienced fancier A. E. Robst. of Closter, N. J., who is co-operating with me in every way to make the Pigeon department all that the fanciers could desire. I have one or two innovations that I want to announce later if I may have the courtesy of using your paper as the means to make known my ideas for the continued prosperity of "America's Leading Show."

Yours very truly,
Chas. D. Cleveland,
Secretary and Superintendent.

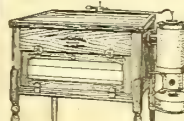
THE CENTENNIAL SHOW.

This is Centennial Year in Indiana and the big Centennial Poultry and Pet Stock Show will be held at Terre Haute, Indiana, December 6th to 10th, 1916. The Terre Haute Show this year will excel all shows that have been held there in the past, both in quality and in number of entries. One of the best judges in the country last year said that for quality no show in the state could beat it, and that winners for the largest shows in the country could be picked from the Terre Haute winners. This year the show will be cooped with uniform sanitary cooping and the same excellent care that has been given stock in the past will be given this year. They have secured J. C. Johnston for one of the judges on poultry. The Pet Stock judges have not yet been decided on, but several high class men are being considered. The Terre Haute Pet Stock Association has combined with the Terre Haute Poultry Association, which means that a fine collection of poultry and pet stock will be seen at the Terre Haute show this year. The Terre Haute show has grown by leaps and bounds and now it is recognized as the best sales town in Indiana. Last year the show room was crowded to capacity with buyers of blooded poultry and the breeders who were lucky enough to show there had a very successful week. They have decided to make most of the premiums in cash, so the exhibitors will have good cold cash to show for their successful breeding and showing. They are offering a number of other valuable premiums, which are set forth in the premium list, which is now ready, and every poultryman is urged to send for one and see for himself the opportunity that is offered to him at the "Quality Show of Indiana." Write to Harry Forbes, Secretary, Terre Haute Poultry Association, Terre Haute, Ind.

Show secretaries should write Harvey C. Wood, Bound Brook, N. J., secretary the American Light Brahma Club, for particulars in regard to specials the club is offering this season at the shows that comply with the rules of the club.

SUCCESS
Hinges on
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Start your chicks strong—and protect them during first three critical weeks—then you can safely count up your profits.

**MODEL Incubators and Hovers****Sanitary Hover**
Price Only \$8.50 Net

Simplest to operate. No stooping, kneeling in dirt and mud at any time. Portable. Vermin-proof and fire-proof. All metal. 40,000 sold in four years.

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Perfect combustion. Self-regulating—self-cleaning. Spark tight. Gas and fume proof. Portable. Saves coal and care—only \$15. Hover with genuine coal-feeding magazine.

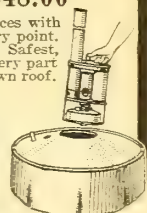
Guaranteed Incubators \$10.00 to \$48.00

Get our big catalog—compare values and prices with any others. Model Incubators win on every point. 100 per cent hatches three consecutive times. Safest, most convenient and cheapest to operate. Every part—including thermometer—made under our own roof. Guaranteed without reserve.

Send for FREE BOOK—130 Pages

"First Aid to Poultry Keepers." Money saving advice from experienced, successful breeder. Indispensable to beginners—full of valuable pointers to old-timers. It's FREE—write for it at once!

Model Incubator Co., 2 Henry Street, Buffalo, N. Y.
39 Barclay St., New York City



AMERICA'S GREATEST QUALITY SHOW.
POULTRY, PIGEONS, CATS, PET STOCK.

THE BOSTON SHOW
MECHANICS BUILDING
Jan. 9-13, 1917
Entries close Dec. 26, '16

For Premium List and Entry Blanks
Address W. B. ATHERTON, SECRETARY,
36 Bromfield Street, Boston, Mass.

Dayton, Ohio, Show Nov. 28, 29, 30, Dec. 1, 2, 3
Entries close November 21.
Premium List ready. Best prizes ever offered.
C. D. FORNEY, Secy.

Wymore Poultry Association

Third Annual Show, Jan. 8-11, 1917, at Wymore, Neb., Guy E. Schreff, Judge, J. Martz, Sec.-Tres. Wymore

Lawrence County Poultry Ass'n

Show held Dec. 28-29, 1916, at Bridgeport, Ill. E. G. TEANEY, Judge.
Write for full particulars to T. G. HILL, Sec., Bridgeport, Illinois

SOUTHWESTERN MICHIGAN POULTRY ASSOCIATION, Inc.

B. L. SHUTTS, Sec., Kalamazoo, Mich., Lock Box 640. Will hold its 23rd Annual Show at Kalamazoo, Mich., Jan. 1st-6th, 1917. In the State Armory, the finest show room in the State. Judges: POULTRY—J. C. Johnston, Springfield, Ill.; CATS—Mrs. G. Taylor, Rochester, N. Y.; RABBITS—C. V. Lemon, Owosso, Mich.

BLAIRSVILLE POULTRY ASS'N

Annual Show Dec. 18-22, 1916, at Blairsville, Pa. C. S. SMITH and J. E. WEAVER, Judges. Send for premium list to G. M. WILKINSON, Sec., Blairsville, Pa.

The Greene County Poultry & Pet Stock Association

Show at Springfield, Mo., first week in January, 1917. C. A. Emery, Judge. For particulars write the secretary, C. H. FAWCETT, Springfield, Mo.

CLEVELAND POULTRY BREEDERS ASSOCIATION

Fifth Annual Exhibition, Jan. 8, 9, 10, 11, 12 and 13, 1917
To be held in Central Armory, within three minutes walk of public square. Premium list ready December 1. Entries close December 23.
J. O. SOMERS, Secy., BEDFORD, OHIO.

PITTSBURGH!

January 15th to 20th, 1917

"The Best Bird Will Win"

THE POULTRY EXHIBITION OF PITTSBURGH, INC., PITTSBURGH, PA.

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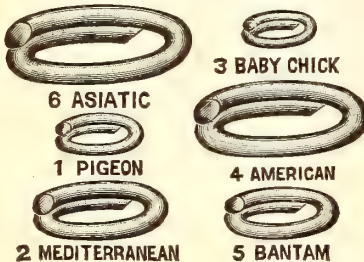
These light-weight, fadeless-colored, easily attached leg bands help most of the largest poultry raisers in the country to breed better poultry, make more profit.

Our free circular, "Increase Your Profits," tells how. Send 7 two-cent stamps for 15 leg bands and the circular prepaid. State colors and sizes wanted.

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Black, White, Dark Blue, Pink, Light Blue, Red, Yellow, Green, Purple and Garnet.

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No. 2, 4, 5 and 6—12, 15c; 25, 30c; 50, 50c; 100, 75c. No. 1 and 3—12, 10c; 25, 20c; 50, 35c; 100, 50c. Special prices on larger quantities.

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Manufacturers

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For Sale—Cheap

Mammoth incubators, all makes, capacity from 600 to 10,000 eggs; which have been replaced by Blue Hen Mammoth Incubators. Good condition guaranteed. Send for list; tell size and make you especially desire.

Watson Manufacturing Co.

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CHAMPION LEG BAND



Aluminum, numbered to suit, with large raised figures. Postpaid 100-60c, 50-35c, 25-20c, 12-15c. Initials extra, 10c per letter per 100; 50 or less 5c. More than one initial with cut figures. Circular free, giving price on Small Chick, Superior, Riveted and Pigeon Bands. Sample for stamp.

T. CADWALLADER, Box 1652, SALEM, OHIO

"America's Best" Light Brahmas

25 Nice Breeding Males For Sale.

BALCH & BROWN

MANCHESTER, CONN.

Gensch's S. C. White Orpingtons

Bred to win and lay. Big winners at Coliseum Show, Chicago, December, 1915.

F. M. GENSCH

Box G-2

OMRO, WIS.

CHICAGO COLISEUM ANNOUNCES LIST OF JUDGES.

Owing to Mr. James A. Tucker being unable to reach the Coliseum Show in time to award the prizes in the Rhode Island Red class, Mr. D. K. Williamson, of Bluffton, Ind., owner and proprietor of the Longfield Farm, has been assigned to the Single Comb Rhode Island Red class. Following is a list of judges and the classes that will be assigned them. There may be a few minor changes, but in the main this list will stand. The premium list is now ready for distribution. Those who exhibited at the Coliseum in 1915 will receive copy of list without request. Others please write for copy at once. Please understand the address of the secretary is 25 West Washington St., Indianapolis, Ind., until November 7th; after November 7th the New Southern Hotel, 13th St. and Michigan Ave., Chicago, Ill. List of judges: Newton Cosh, Vineland, N. J.; Barred Plymouth Rocks, Leonard Rawnsley, Columbus, Ohio, all Buff and Blue Orpingtons; Black Orpingtons, cockerels, hens and young pens. C. S. Byers, Hazelrigg, Ind., all White Orpingtons; Black Orpingtons, cocks, pullets and old pens; all Rose Comb Orpingtons. H. J. Goette, St. Paul, Minn., Silver Wyandottes; A. F. Kummer, Butler, Pa., White Plymouth Rocks; Rose Comb Reds; Black Minorcas, males and old pens. D. K. Williamson, Bluffton, Ind., Single Comb Reds. W. G. Pierce, Hope, Ind., Single and Rose Comb White and Black Leghorns; all Sussex. Herman Rikhoff, Indianapolis, Ind., Single and Rose Comb Brown and Buff Leghorns; all Campines. George Hackett, North Freedom, Wis., Partridge Wyandottes; Partridge Orpingtons; Houdans; all Cornish; all Hamburgs; Buttercups, and Blue Andalusians. George Wells, Oshkosh, Wis., Columbian Wyandottes; Dark Brahmas; all Cochins; all Polish; Anconas; Buckeyes, and Rhode Island Whites. Ralph Whitney, Rochester, Minn., White Wyandottes; Single and Rose Comb White Minorcas. J. C. Johnston, Kenney, Ill., Partridge Rocks; all Langshans; Silver Penciled and Columbian Plymouth Rocks; Silver Penciled and Black Wyandottes; Black Minorcas, females and young pens. Chas. V. Keeler, Winamac, Ind., Buff Plymouth Rocks; Buff and Golden Wyandottes; Light Brahmas; all Standard Games. Olin Culp, Atlanta, Ind., all turkeys; all water fowls. Edward Joynson, Bridgeton, Mo., all Bantams.—Theo. Hewes, Secretary, Indianapolis, Ind.

JUDGES AT MADISON SQUARE GARDEN.

W. M. Anderson, Saratoga Springs, N. Y., Anconas; Buttercups, and Red Caps. W. B. Atherton, Randolph, Mass., Houdans and Faverolles. Louis C. Bonfoey, Plainfield, N. J., White Plymouth Rocks and Javas. A. J. Braun, Syracuse, N. Y., Polish. M. L. Chapman, Trenton Junction, N. J., Campines; Silver; Red Pyle; Columbian and A. O. V. Leghorns. Newton Cosh, Vineland, N. J., Barred Plymouth Rocks and Barred Wyandottes. J. H. Drevenstedt, Schenectady, N. Y., Cochins; Dominiques; Brown Leghorns and Silver Penciled Wyandottes. Geo. W. Dakin, Roxbury, Mass., White Wyandottes. James Glasgow, Mahwah, N. J., Exhibition and Pit Games; Game Bantams; Sumatras and Malays. Louis P. Graham, Vineland, N. J., Buff; Silver Laced and Columbian Wyandottes. H. B. Hark, Glendale, Ohio, Partridge Plymouth Rocks and Black Wyandottes. William Hobbs, South Plainfield, N. J., Cornish and Buff Leghorns. J. C. Kriner, Stettlersville, Pa., Water Fowl. W. G. Minich, Carlisle, Pa., Andalusians; Ornamental classes and turkeys. H. L. Mapes, New York City, Rhode Island Reds and Buckeyes. Richard Oke, London, Canada, Buff and White Orpingtons and Hamburgs. Len Rawnsley, Columbus, Ohio, Black, Blue and A. O. V. Orpingtons. Irving F. Rice, Cortland, N. Y., White Leghorns. F. W. Rogers, Montello, Mass., Partridge Wyandottes; Silver Penciled Plymouth Rocks; Dark Brahmas and Silkies. H. P. Schwab, Irondequoit, N. Y., Buff Plymouth Rocks; Golden Wyandottes and Langshans. Arthur O. Schilling, Buffalo, N. Y., Langshans; Feather Leg Bantams. J. C. Williams, Fullerton, Cal., Minorcas; Black Leghorns and White-Faced Black Spanish. Geo. L. Young, Brooklyn, N. Y., Clean Leg Bantams.

The members of the International Poultry Association, The Niagara Frontier Fanciers Association, and the Buffalo Bantam Club, expect to spring a big surprise in making the coming show, which is to be held during the week of December 11 to 16, 1916, one of the season's poultry wonders. The Buffalo boys fully realize that too many poultry exhibits are over-rated and over-promised, but rest assured, that while Buffalo did itself proud in keeping its promise in former years, the Queen City will come back with a "greater than ever" show this year.

The 3rd annual show of the Oil City Poultry Association will be held at Oil City, Pa., January 24-27, 1917. For full particulars in regard to this show, write the secretary, Chas. R. Baker, Oil City, Pa.

WYLDE'S POULTRY CAPSULES

(A Liquid Mixture)

Will Prevent and Cure a Cold

They are used by many of the successful exhibitors at the largest shows. Sizes for all breeds.

\$1.00, 50c and 25c per box

The small (sample) size is ideal for exhibitors to carry in the pocket. Give one capsule to each bird when shipping to show, to insure against weather conditions.

Manufactured and for sale by

WILLIAM F. WYLDE

111 Badwell St.

Lawrence, Mass.

Black Langshan Winners

Nearly a clean sweep at Wisconsin State Fair, Sept., 1916. Grand young stock for sale. Write today.

GEO. COOKE Route 1 RACINE, WIS.

ASTLE'S QUALITY

BUFF PLYMOUTH ROCKS

win 1-2 Cockerel; 1-2 Pullet; 1 Pen Kankakee Inter-State Fair, Sept. 4 to 9. Winners at Chicago, Springfield, Fort Wayne and others. 400 birds for sale reasonable. Write me your wants. Mention Am. Poultry Journal.

MILAN C. ASTLE

Box A

MOMENCE, ILLINOIS

R. C. W. LEGHORNS

Winners at Nat'l Shows Chicago Coliseum, Milwaukee, Minneapolis, Duluth and many others. At Milwaukee 5 1sts; 3 2ds; 3 3rds. in competition with World's Fair winners. Eggs for hatching and day-old chicks.

MRS. J. WOLF

Box 40

MERRIFIELD, N. D.

S. and R. C. Reds

Choice exhibition and breeding stock of both combs for sale. Let me quote you prices on what you want. I can please you.

W. A. McConnell

Richmond, Ill.

Silver Penciled Wyandottes

Some choice stock for sale, bred from Chicago prize winners. Write for prices and particulars.

AUG. BLOESE, 5733 Lawrence Ave., CHICAGO, ILL.

McCONNELL'S

S. C. B. MINORCAS

America's most famous trap-nested egg-producing and exhibition strain. Winners at America's Largest Shows. Breeding and exhibition stock for sale. New sales list out June 15th.

J. V. McCONNELL

Box A

Garden Grove, Cal. U. S. A.

Barred Plym. Rocks

Choice exhibition and breeding stock for sale. Satisfaction guaranteed.

CARTER'S POULTRY FARM

JONESDALE, WISCONSIN

S. C. W. Orpingtons

Chicago winners. Some extra good exhibition and breeding stock to spare. Write me your wants.

W. E. READ

Phone 1018M.

919 N. 7th Ave.

MAYWOOD, ILL.

JUDGES AT THE PALACE SHOW.

George W. Weed, East Lee, Mass., Black Orpingtons, Blue Orpingtons, Black Leghorns, Langshans, Cochins. W. H. Card, Manchester, Conn., Dark Cornish, Buckeyes, Sussex, J. C. Punderford, New York City, N. Y., White Leghorns, W. B. Atherton, Randolph, Mass., White Wyandottes, C. H. Shaylor, Lee, Mass., Barred Rocks, Charles Nixon, Washington, N. J., White Rocks, Buff Rocks, J. D. Jaquins, Watervliet, N. Y., Buff Wyandottes, Silver Wyandottes, White Orpingtons, Frank L. Platt, Swanton, Ohio, Campines, J. Harry Wolsiefer, Vineland, N. J., Buff Orpingtons, Black Wyandottes, I. W. Bean, So. Braintree, Mass., Single Comb R. I. Reds, I. G. Bean, Collegeville, Pa., Anconas, Partridge Wyandottes, Paul W. Doll, White Plains, New York, Silver Pen, Wyandottes, Silver Pen, Rocks, Wm. G. Minich, Carlisle, Pa., Houdans, Minorcas, W. M. Anderson, Saratoga Springs, N. Y., Faverolles, Spanish, Andalusians, Buff Leghorns, Buttercups, I. W. Mole, Roosevelt, N. Y., Partridge Rocks, F. W. Otte, Peekskill, N. Y., Columbian Rocks, John W. Ward, Pennington, N. J., White Cornish, E. M. Quay, La Porte, Ind., Light Brahmas, Dark Brahmas, Columbian Wyandottes, H. V. Tormohlen, Portland, Ind., Brown Leghorns, S. D. Leghorns, Frank H. Davey, Vineyard Haven, Mass., Rose Comb R. I. Reds, Polish, Hamburgs, W. E. Mounteney, White Plains, N. Y., Golden Wyandottes, James Glasgow, Mahwah, N. J., Games, John Brett, New City, N. Y., Waterfowl, W. G. Krum, Ithaca, N. Y., Farm Flocks, Bantam Judges—George Young, Brooklyn, N. Y., all except Games, James Glasgow, Mahwah, N. J., Games.

NATIONAL WHITE LEGHORN CLUB.

The next annual meet of the National Single Comb White Leghorn Club will be held in connection with the Greater Chicago Show, January 10-16, 1917. This is one of the big shows of the country. White Leghorn breeders and fanciers should plan to attend this show and send their birds to this National Meet. Two judges of national reputation will be put on the White Leghorn class—one from the east and one from the west. J. C. Johnston, of Illinois, will judge the cockerels, pullets and old pens, and M. L. Chapman, of Wilburtha Farms, Trenton Junction, New Jersey, will judge the cocks, hens and young pens, and it is expected that the White Leghorn class at this meet will be the largest ever shown. Twenty-five per cent of the total entry fees on Single Comb White Leghorns will be offered as cash specials to members of the club; this in addition to the regular cash prizes, Club specials, silver cups, etc. Eight places on cocks, hens, cockerels, pullets, and both young and old pens, will be awarded, and White Leghorn breeders should plan to enter their birds at this show. If you are not now a member of the National Single Comb White Leghorn Club, write the club's president, Eugene Smith, Aurora, Illinois, or the club's secretary, F. O. Groesbeck, Hartford, Connecticut, for further information and application blank. Send your request for premium list of the Greater Chicago Show to D. E. Hale, secretary, 930 Monon Building, Chicago, Ill.

AMERICAN BUCKEYE CLUB MEET.

The annual national meeting of the American Buckeye Club will be held in connection with the New York Palace Show, December 5-9. Mr. W. H. Card will place awards. The club's ribbons and silver cups are sought after and all breeders of this variety are eligible to win them by sending the secretary, H. W. Deem, of Eaton, Ohio, \$1.00, the initiation and first annual dues.

SHOW SECRETARIES TAKE NOTICE.

The American White Plymouth Rock Club, H. W. Halbach, president, will offer five handsome ribbons at all forthcoming shows that will give notice of the offer in their premium list. For further particulars, address M. L. Chapman, sec.-treas., Trenton Junction, N. J.

The 23rd annual exhibition of the Illinois State Show will be held in the Arsenal at Springfield, Ill., on December 28th, 1916, to January 3rd, 1917, and the entire exhibition will be caged in Empire coops. Judges Russell, Hale, Johnston, McCord, Heyl, Klein, Leland and Heimlich will place the awards. This show is your show and we want you to make it a show for every exhibitor in the state and we guarantee you a square deal, whether you show one bird or a hundred. No favorites, everybody can rest assured of that. We will pay higher cash prizes than any show in the West, and will also have cash specials for best shape male and female and best colored male and female in every variety shown, also \$10.00 in gold to winners of best displays. Catalog will be ready November 1. Write A. D. Smith, Quincy, Ill., for copy.

For information about the Blue Andalusian Club of America, write the secretary, W. J. Coates, East Calais, Vt.

WE WANT YOU To Exhibit At the

PALACE SHOW DEC. 5-9, 1916 NEW YORK CITY

Entries Close Nov. 20

This is an opportunity
you have long sought.

EMPIRE POULTRY ASSOCIATION
Mineola, New York

NOTE:—Our mailing list has been lost, you must, therefore, send us a card at once if you want OUR PREMIUM CATALOG.

Madison Square Garden

Our 28th Annual Exhibition Will Take Place

December 28, 1916 to Jan'y 3, 1917

Entries for "America's Leading Show" Close
December 12, 1916. In applying for Premium
List state whether you intend to exhibit Poultry or
Pigeons or both. There are special blanks for
pigeons. For particulars address

Chas. D. Cleveland, Sec'y Madison Square Garden New York City

SEVENTH ANNUAL SHOW

of the MICHIGAN POULTRY BREEDERS ASSOCIATION, Inc.

Detroit, Mich. January 9 to 14, 1917. National White Wyandotte Club Meet. Barred Plymouth Rock Club State Meet. Write for Catalog.

F. M. CROWE, Secretary

OWOSSO, MICH.

WINNINGS of A. P. J. ADVERTISERS

Under this heading will be given each month, during the show season, the winnings made by our advertisers, at the various shows, as reported by them.

W. W. Carpenter, East Providence, R. I., reports the following winnings on his Barred Plymouth Rocks at Three States Fair, Crescent Park, R. I., October 10-13, 1916: 1 cock, 1-2 hen, 1 cockerel, 2-4 pullet, 1 exhibition pen and 1 cockerel breeding pen.

Homestead Campine Farm, Wayland, Mass., report the following winnings on their Silver Campines at the New York State Fair, Syracuse, N. Y., September, 1916: 1-2 cock, 2-5 hen, 1-2 cockerel, 2-3-4 pullet, 1-2 pen and 1 display. At Hanover, Pa., on four entries, 1 cock, 1 hen, 3 cockerel, 3 pullet.

Dr. L. E. Heasley, Holland, Mich., reports that he won all 1st and 2nd prizes on his Buff Leghorns at the Holland Fair. Owing to a delay by express company his birds arrived too late for competition at the Grand Rapids Fair.

The Quincy Poultry Farms, Quincy, Ill., report the following winnings at the late Illinois State Fair, Springfield, Ill.: 1 pen and 4 cockerel on R. C. Rhode Island Reds, 1 and 2 cockerel on S. C. Rhode Island Reds.

3 cockerel on White Leghorns and 1 cock and 1 hen on Brown Leghorns.

Louis H. Perry, Clay, N. Y., reports the following winnings at the Ohio State Fair, 1916, on R. C. White Leghorns: 1 cock, 1 hen, 1 cockerel, 2 pullet, 1 pen. On Fawn Runner Ducks, 2 old drake, 1 old duck, 3 young drake. At New York State Fair, 1916, on R. C. White Leghorns: 1-3 cock, 3 hen, 4 cockerel, 4-5 pen. On Fawn Runner Ducks: 2-5 old drake, 1-2 old duck, 2-3 young drake, 2 young duck, 2-4 pen, \$10.00 Harriman special best display. Colored Muscovy Ducks: 1 old duck, 1-3 young drake, 1-2 young duck, 3-4 pen, \$10.00 Belmont special best display.

Aldrich Poultry Farm, Columbus, Ohio, report the following winnings at the Great Hagerstown Fair, 1916, on S. C. White Orpingtons: 1st cock, cockerel, hen, pullet and old and young pen, also 2nd cock, cockerel, hen and pullet.

Leo A. Lee, 4840 Belle Plaine Ave., Chicago, Ill., reports the following winnings on his Columbian Wyandottes at the Illinois State Fair, Springfield, 1916: 1-3 cock, 3 hen, 2 pullet, 4-5 cockerel.

John L. Brown, 1515 W. 17th St., Anderson, Ind., reports the following winnings on his S. C. Black Minorcas at the Ohio State Fair, 1916: 1-2 cock, 2-3 hen, 1-2 cockerel, 1-2-3 pullet, 2 old pen, 2 young pen and special for best pullet in the Mediterranean class. The same week at the Madison County Poultry Association Show, Anderson, Ind., he won 1-3 hen, 1-2 cockerel, 1-3 pullet, 1 pen. At the Indiana State Fair, 1916, he won, 2 cock, 1-3 hen, 1-2 cockerel, 1-2-3 pullet, 1 pen.

Richard M. Seward, Lewistown, Ill., reports the following winnings on his Buff Orpingtons at the Illinois State Fair, 1916: 1-2 cock, 1-3 pen, 1 hen, 2 pullet, 4 cockerel. At Wyoming, Ill., 1 cock, 2 hen, 1-2 pullet, 1 cockerel, 1 pen. At Atlanta, Ill., 1 cock, 1 pen, 2 pullet, 2 cockerel. At Delavan, Ill., 1-2 cock, 1-2 hen, 1-2 pullet, 1 cockerel, 1 pen.

J. W. Garvey, Thayer, Ill., reports the following winnings on his Columbian Wyandottes at the Illinois State Fair, 1916: 1-2-3 cockerel, 3 pullet, 1 old pen, 2 young pen.

John W. Ward, Jr., Pennington, N. J., reports the following winnings on his Dark Cornish at Allentown, Pa., 1916: 2 cock, 1-2-3 hen, 2-3-4 cockerel, 1-2-3 pullet and special for best display, all varieties of Cornish competing.

Thru error, the wonderful win made at New York State Fair by John S. Martin, the White Wyandotte breeder of Port Dover, Ont., Canada, was omitted from our October issue and we take this means of giving credit where credit is due. 1-2-3-4-5 cock, 1-2-3-5 hen, 1-3-4-5 cockerel, 1-4-5 pen, 5 pullet. Also best display and championship cup for best ten birds in show, all varieties competing. This makes the eleventh big win made by Mr. Martin at Syracuse.

The time is not far distant when the premium lists of the Madison Square Garden and Boston Shows will be issued. The Hamburg breeders of the United States and Canada are earnestly requested to co-operate with me so that the two largest exhibits of Hamburgs ever seen in this country will be shown to the public. While I am particularly interested in "The Fancier's Fowl," the Golden Penciled Hamburg, nevertheless we wish to see a large exhibit of all the varieties. We have already had the promise of several specials, but we want a large list of them. I will promise to exhibit at each of these shows five cocks, five hens, five cockerels, five pullets, two pens and possibly a display cage of Golden Penciled Hamburgs, and will donate either a couple of silver cups or cash prizes. Now let me hear from you promptly what you will offer in the way of specials before the premium lists close and try to advise me how many Golden Penciled Hamburgs you will exhibit.—John A. Gamewell, Secretary-Treasurer, The Golden Penciled Hamburg Club.

The eighth annual exhibition of the Terre Haute Poultry Association will be held at Terre Haute, Ind., December 6-10, 1916. J. C. Johnson, judge. The quality show, as this show is known, will be larger and better than ever. One of the features will be a large, well lighted show room, where breeders can display their surplus stock which they have for sale, at a very small fee. Big cash prizes will be the slogan this year. For full information write Harry Forbes, sec'y, 2601 N. 11th St., Terre Haute, Ind.

The American White Plymouth Rock Club is publishing an attractive catalog, which contains many valuable and interesting articles from prominent White Rock breeders, pictures of famous prize winning birds, and a complete list of members. It will be sent to all admirers of White Plymouth Rocks on receipt of a two-cent stamp to cover postage for mailing.

Rudy's Perfection Wh. Wyandottes



My strain is noted for its egg production and exhibition qualities. My customers all over the country laud my square deal business methods. I guarantee to give you extra good value for every dollar you pay me and if you are in the market for line bred birds I will be glad to tell you just what I have for sale. If you contemplate showing this season I can furnish you the quality that will win.

GEO. H. RUDY

Route 15 MATTOON, ILL.

Premium List Ready November First—Yours for the Asking.

Great Coliseum Show, Chicago

The Only Exclusive National Poultry Show on the American Continent.

Remember our record. Seven of the most successful shows ever held in this country. The greatest sale show on record. Head line judges in every department. Every premium guaranteed. Many national club meets. Remember the dates

December 13, 14, 15, 16, 17 and 18

Does not conflict with any other national show. Entries close November 25th—be on time. Your name on a postal will put you in touch with the Secretary. : : : Write today.

THEO. HEWES, Sec'y, 25 West Washington St., INDIANAPOLIS, IND.

SHOW DATES

CALIFORNIA.

Nov. 4-9, 1916. San Diego: San Diego Fanciers Club; R. Hawkins, mgr. and sec., c/o Maryland Hotel.

Dec. 6-9, 1916. Modesta; Stanislaus Poultry Assn.; W. S. Russell, C. G. Hinds, H. A. Currier, judges; James D. Yates, sec.

Dec. 12-15, 1916. Harper; Orange County Fanciers Assn.; C. A. Wilkinson, sec.

Jan. 3-9, 1917. Los Angeles; Poultry Breeders Assn. of Southern California; Purdy, Goodacre, Emerson, Masterson, judges; Walter Ross, sec., 224 W. Colorado st., Glendale, Cal.

CANADA.

Nov. 6-9, 1916. Berlin: The Berlin Poultry Assn.; H. B. Strome, sec., 210 Courtland avenue.

Jan. 3, 4, 5, 1917. Napanee, Ont.; Napanee Poultry Assn.; Geo. Robertson, judge; G. B. Curran, sec.

COLORADO.

Jan. 1-6, 1917. Denver: Colo. Poultry Fanciers Assn.; S. B. Johnston, H. H. Chase, judges; Geo. M. Littler, sec., 4192 Chase st.

Jan. 8-11, 1917. Brush; No. Eastern Colorado Poultry Assn.; F. H. Shellabarger, judge; J. L. Cameron, sec.

Jan. 22-27, 1917. Denver: National Western Poultry Show; James Tucker, Geo. Wells, judges; W. C. Schuman, mgr., 400 So. Emerson st.

CONNECTICUT.

Nov. 22-25, 1916. New London: The Southern New England Poultry Assn.; W. M. Anderson, Beebe, Ives, Master, Northrup, Hallenbeck, judges; H. W. Schriver, sec., Groton, Conn.

Nov. 30 to Dec. 1-2, 1916. Danbury: Western Conn. Poultry Assn.; G. W. Weed, F. W. Otte, judges; H. G. Ward, sec., 57 Main street.

Nov. 30 to Dec. 2, 1916. South Norwalk; Norwalk Poultry Assn.; A. D. Morgan, sec.

Jan. 23-26, 1917. Middletown; Middlesex County Poultry and Pet Stock Assn.; P. P. Ives, C. H. Wells, W. R. Pierson, judges; Chas. L. Bliss, sec.

DELAWARE.

Dec. 5-9, 1916. Wilmington; Diamond State Poultry and Pigeon Assn.; Frank M. Smith, sec., 903 Adams st.

DISTRICT OF COLUMBIA.

Jan. 15-20, 1917. Washington; National Capital Poultry and Pigeon Assn.; J. C. Kriner, F. L. Platt, judges; D. D. Lillie, sec., 227 Maple ave., Takoma Park, D. C.

GEORGIA.

Nov. 6-11, 1916. Macon; Georgia State Fair Assn.; J. H. Drevenstedt, judge; Harry C. Robert, sec., 408 Broadway.

Nov. 13-18, 1916. Augusta; Augusta Poultry Assn.; Drevenstedt, Marshall and Robt. West, judges; H. W. Cameron, sec.

IDAHO.

Jan. 8-13, 1917. Boise; Idaho State Poultry and Pet Stock Assn.; Mrs. Belle Silver-smith, sec., 1929 N. 19th st.

ILLINOIS.

Nov. 16-19, 1916. Collinsville; Samuel B. Johnston, judge; E. Hogan, sec., 537 Norwood.

Nov. 27-30 to Dec. 1-2, 1916. Jacksonville, Morgan County Poultry Assn.; Geo. A. Heyl, judge; James C. Weber, sec.

Nov. 28 to Dec. 3, 1916. Quincy; The Quincy Poultry Assn.; W. S. Russell, J. C. Johnston, D. E. Hale, judges; A. D. Smith, sec.

Dec. 4-9, 1916. Beardstown; Cass County Poultry Assn.; D. T. Heimlich, judge; V. L. Adelmann, sec.

Dec. 4-9, 1916. Milledgeville, Ill.; Milledgeville Poultry Assn.; Elmer Gimlin, judge; C. A. Straka, sec.

Dec. 4-8, 1916. Hoopeston; Hoopeston Poultry Assn.; D. T. Heimlich, judge; Wm. Johnson, sec., R. F. D. No. 3.

Dec. 4 to 9, 1916. Lanark; Lanark Poultry, Pet Stock and Grain Assn.; F. H. Shellabarger, judge; Mrs. J. A. Shaner, sec.

Dec. 4-9, 1916. Mt. Carmel; The Wabash County Poultry Assn.; Geo. H. Northrup, judge; Dr. R. C. Bell, sec.

Dec. 5-8, 1916. Murphysboro; Jackson County Poultry Assn.; Joseph Dagle, judge; O. L. Rawlings, sec.

Dec. 5-10, 1916. Woodstock; McHenry County Poultry Assn.; T. J. Rountree, judge; M. C. Davis, sec.

Dec. 6-10, 1916. Savanna; Western Ill. Fanciers Assn.; Atkin, judge; E. A. Stouvenel, sec., R. R. No. 4.

Dec. 7-8, 1916. Bridgeport; The Lawrence County Poultry Assn.; E. G. Teaney, judge; T. G. Hill, sec.

Dec. 11-16, 1916. Danville; The Vermillion County Fanciers Assn.; J. Brady, sec.

Dec. 11-16, 1916. Macomb; McDonough County Poultry Assn.; D. E. Hale, judge; Walter R. Purdum, sec.

Dec. 12-16, 1916. Farmington; Farmington Poultry Assn.; E. M. Quay, judge; Jas. H. Fash, sec.

Dec. 12-15, 1916. Monticello; The Piatt County Poultry Assn.; J. J. Klein, judge; G. E. Morgan, sec.

Dec. 12-15, 1916. Girard; Girard Poultry



The attractive Black Orpington male bird shown in this picture is typical of the high quality to be found in the yards of Moore & Bowlus, Fremont, Ohio.

Assn.; S. B. Mills, judge; Thos. H. Stutzman, sec.

Dec. 12-15, 1916. Streator; Streator Poultry Assn.; J. A. Leland, judge; E. J. Schroeder, sec.

Dec. 14-16, 1916. Blue Mound; Blue Mound Poultry Assn.; J. J. Klien, judge; Geo. P. Ritchie, sec.

Dec. 18-22, 1916. Pontiac; Livingston County Poultry Assn.; C. A. Tuttle, sec.

Dec. 18-23, 1916. Belvidere; Northern Ill. Poultry Assn.; E. G. Roberts, judge; W. G. Lampert, sec., 811 Prairie st.

Dec. 21-25, 1916. Forest Park; Proviso Poultry Fanciers Assn.; R. C. Jamieson, sec., 1019 N. 5th ave., Maywood, Ill.

Dec. 26-29, 1916. Batavia; Batavia Poultry Assn.; D. E. Hale, judge; Chas. A. Pierce, sec.

Dec. 26-31, 1916. to Jan. 1, 1917. Capron; Capron Poultry Assn.; Geo. M. Wells, judge; J. C. Nettleton, sec.

Dec. 28-31, 1916. to Jan. 1-3, 1917. Springfield; Ill. Poultry Breeders Assn.; Russell, Johnston, Hale, Heyl, Klein, Heimlich, McCord, Leland, judges; A. D. Smith, sec., Quincy, Ill.

Jan. 1-6, 1917. Aurora; Aurora Poultry and Pet Stock Assn.; Hale, judge; C. L. Valentine, sec.

Jan. 3-6, 1917. Chicago Heights; Chicago Heights Poultry Assn.; E. M. Quay, judge; A. E. Page, sec.

Jan. 8-13, 1917. Galesburg; Knox County Poultry and Pet Stock Assn.; Harry Atkins, Geo. Heyl, judges; Edw. A. Tate, sec., 115 Main st.

Jan. 8-13, 1917. Havana; Mason County Poultry Fanciers Assn.; J. W. Zimmerer, judge; H. W. Chambers, sec.

Jan. 8-13, 1917. Kankakee; Kankakee Poultry and Pet Stock Assn.; H. C. Dippel, judge; E. F. Radeke, sec.

Jan. 8-13, 1917. Rockford; Rockford Poultry and Pet Stock Assn.; Earl Hemenway, judge; A. E. Lindsay, sec., 220 Girard st.

Jan. 8-14, 1917. Paxton; Eastern Illinois

GET MY PRICE

THIS is the finest, cheapest, most efficient hatcher I have been able to produce after thirty years. Thousands have proven it perfect in heat, moisture and ventilation. Round like a nest, just the right size, 66 eggs, for economy, convenience and results. Fitted with famous Sheer Automatic Fixtures, and guaranteed to hatch every hatchable egg. The 1916

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is the only practical, all-metal, fire-proof, everlasting hatcher ever produced. Make any new or old incubator absolutely automatic with Sheer Fixtures, Automatic Lamp, Regulators, Complete Heating and Ventilating Systems, Incubator Parts, etc. World's standard 25 years. Big Book FREE. H. M. SHEER COMPANY, 165 Hampshire St., Quincy, Ill.

Greater Chicago Show

January 10 to 16 Union Stock Yards, Chicago — Finest Show Room in America — Judges of National Reputation — Several Specialty Club Meets—A Chicago Win is a Real Win—Show Here and Enjoy Real Chicago Hospitality. Entries: Singles, \$1.50; Pens, \$3.00—Premium List Ready Nov. 15—Request Yours Today
D. E. Hale, Secretary, 900 Monon Building, 440 S. Dearborn St., Chicago, Illinois

OCONOMOWOC POULTRY and PET STOCK ASS'N

Will hold its Twelfth Annual Show at Oconomowoc, Wis., December 6-10 (inclusive) 1916. \$300.00 in Cash, in addition to Cups and Special Premiums. Score card judging by W. H. Stanfield. Premium List of this long established, up-to-the-minute-show mailed on request. G. C. JOHNSON, Sec., OCONOMOWOC, WIS.

New London, Conn., 7th Annual Show, November 22-25, 1916

The Southern New England Poultry Ass'n, Inc. A live wire Association. Six competent judges, \$50.00 CASH for best bird in show; \$20.00 best pen; \$10.00 best bird in classes. Double prize money if 100 birds in class. Cups galore. Premium lists from H. W. SCHRIVER, GROTON, CONNECTICUT

OIL CITY POULTRY ASSOCIATION, Oil City, Penna.

3rd Annual Show—Jan. 24-27, 1917
CHAS. McCLAVE, Judge SCORE CARD SHOW CHAS. R. BAKER, Sec'y

THE BELOIT POULTRY and PET STOCK ASS'N, BELOIT, WIS.

Next Show Dec. 14 to 20, 1916. \$100.00 to be awarded on displays in four purses; other big cash premiums and 12 Silver Cups. Score card show. Geo. M. Wells, Judge. Entries Close Dec. 12th, 1916. Uniform coops. This is the A. P. A. State show. GUY S. LEE, Secretary, BELOIT, WISCONSIN

LIVINGSTON COUNTY POULTRY ASS'N

Pontiac, Illinois December 18-22, 1916
Liberal Cash and Special prizes. Judging by comparison by leading judges. Catalog ready—send for one
O. A. TUTTLE, Secretary PONTIAC, ILLINOIS

IOWA STATE POULTRY SHOW DUBUQUE POULTRY ASSOCIATION, Inc.

January 4-9, 1917
Judges: Tucker, Dagle, Atkins Walter F. Hurd, Secretary

BATAVIA ILL. SHOW—Dec. 26-27-28-29, 1916

Premium list ready November 25th. Poultry, Pigeons, Pet Stock. Winter Fair. Valuable Cash and other Prizes. Silver Cups. Score card show. Entries close Dec. 18th. Write today for Premium list.
D. E. HALE, Judge C. A. PIERCE, Secretary, BATAVIA, ILL.

MUSKEGON and EASTERN SHORE POULTRY ASSOCIATION

Seventh Annual Exhibition - Muskegon, Michigan, Jan. 23-24-25-26, 1917
Silver Cups, Gold Sweepstake Specials, Cash Premiums, and Special premiums galore. Premium list ready Nov. 15th; Entries close January 20. Wm. M. Wise, Judge; H. S. Noble, Sec., 15 Barney Ave. Muskegon Hts.

IONIA COUNTY POULTRY and PET STOCK ASSOCIATION SHOW

January 30-31 and February 1-2, 1917. A Live Show in a Live Town
Liberal Cash and Merchandise Premiums. Wm. M. WISE, Judge. Write for Premium List to
VERA L. WILLIAMS, Secretary IONIA, MICHIGAN

23rd Annual Illinois State Show

THE SHOW FOR YOU
State Arsenal, Springfield, Illinois December 28, 1916 to January 2, 1917
Empire cooping. Official and marked catalogs free. Gold specials for best display and cash specials for best shape and color, male and female, in every variety. Plenty of publicity and a square deal, whether you show one bird or a hundred. Write for catalog to A. D. Smith, Sec'y, Quincy, Ill. The Ancona, Columbian Wyandotte and Black Langshan Clubs will meet here.

Indianapolis Breeders of Poultry and Pet Stock Association

Will hold their second annual show December 4-9, 1916 at Indianapolis.
Competition open to the world; premium list ready November 1, 1916
G. C. OTT, Secretary 1106 Linden St., Indianapolis

TERRE HAUTE, IND., DEC. 6, 7, 8, 9 and 10, 1916

Entries close December 2, 1916. Comparison show. Cash premiums. Premium list ready November 10, 1916. A feature will be a big sales room in connection. Good stock sells quickly at this show. We employ such judges as Tucker, Hale, Hewes, etc. For any information write HARRY FORBES, Sec'y., 2601 N. 11th St.

TYRONE FANCIERS' ASSOCIATION Will Hold Its Third Annual Show,

November 28 to Dec. 1, Inclusive.
This will be a score card show. Cooped in steel wire cages. Judged by American Poultry Association judges. Valuable cash and merchandise premiums. Silver cups, etc. Entries close November 18, 1916. Write for premium list. E. B. FISHER, Secretary, TYRONE, PA.

Wilkes-Barre Poultry and Agricultural Ass'n, Inc.

will hold its annual Poultry and Agricultural Show, December 4 to 9, 1916. Poultry Judges, John Kriner, J. H. Minshall, H. A. Shetler. Names and addresses of exhibitors placed on every coop.
F. N. ROLL, Secretary 550 Carey Avenue, WILKES-BARRE, PA.

Western Illinois Fanciers Ass'n

"We use the Kiepper Cooping System." Will hold its Fourth Annual Poultry Show, December 6th to 10th, 1916, Inclusive. Many special features, including illustrated lectures on poultry and grain. Send for premium list to
E. A. STOUVENEL, Secretary SAVANNA, ILLINOIS

PROVISO POULTRY FANCIERS ASS'N

2nd Annual Poultry, Pigeon and Pet Stock Show, Forest Park, Ill., Dec. 21-26. Comparison judging. Uniform cooping. Judges, D. E. Hale, R. H. Waterman. R. C. JAMIESON, Sec., 1019 N. 5th Av., Maywood, Ill.

Poultry and Pet Stock Ass'n., W. C. Pierce, Judge; Walter Nordgren, sec.
Jan. 9-12, 1917. Carbondale; Down State Poultry Ass'n.; Geo. Hyle, judge; F. W. Meyers, sec.
Jan. 15-20, 1917. Decatur; Decatur Poultry and Pet Stock Ass'n.; Chas. McClave, J. J. Klein, judges; H. B. Lowe, sec., R. 9.

INDIANA.

Nov. 28 to Dec. 3, 1916. Hammond; Calumet Poultry Fanciers' Ass'n.; B. O. Swaim, judge; Wm. Maginot, sec., 174 Fayette st.
Dec. 4-9, 1916. Indianapolis; Indianapolis Breeders of Poultry and Pet Stock Ass'n.; G. C. Ott, sec., 1063 Virginia ave.
Dec. 6 to 10, 1916. Terre Haute; Terre Haute Poultry Ass'n.; J. C. Johnston, judge; Harry Forbes, sec., 2601 N. 11th st.
Dec. 11-16, 1916. Marion; Northern Ind. Poultry Ass'n.; S. G. Case, judge; O. D. Weesner, sec., 1210 S. Boots st.
Dec. 19-22, 1916. Mitchell; Mitchell Poultry Ass'n.; Colip, judge; Chas. D. McIntire, sec.
Jan. 2-7, 1917. Rensselaer; Jasper County Poultry Ass'n.; F. W. Travis, judge; J. H. Webber, sec.
Jan. 2 to 7, 1917. South Bend; So. Bend Poultry and Pet Stock Ass'n.; Northrup, Pierce and Terrel, judges; C. R. Montgomery, sec.
Jan. 8-12, 1917. Bedford; Lawrence County Poultry Ass'n.; W. W. Zike, judge; Theo. Heitgen, sec.
Jan. 8-13, 1917. Brazil; Brazil Poultry Club; B. H. McCracken, judge; J. C. MacDonald, sec.
Jan. 8-13, 1917. La Fayette; H. C. Miller, judge; L. J. Munger, sec.
Jan. 17-21, 1917. Fort Wayne; The Great Triangle Poultry Show; H. A. Pickett, Geo. H. Northup, C. E. George, judges; J. C. Howenstein, sec., 219 E. Columbia st.

IOWA.

Nov. 27 to Dec. 1, 1916. Shenandoah; Nishna Valley Poultry Ass'n.; Jos. Dagle, Russell Palmer, judges; R. B. Murphy, sec.
Nov. 27 to Dec. 2, 1916. Independence; Buchanan County Poultry Ass'n.; T. J. Rountree, judge; Royal B. Hovey, sec.
Nov. 28-30 to Dec. 1, 1916. Boone; Boone County Poultry Ass'n.; Holden, judge; F. D. Wheeler, sec., 523 Jefferson st.
Dec. 1-7, 1916. Traer; Traer Poultry Ass'n.; H. W. Atkins, judge; T. J. McGinnis, sec.
Dec. 1-4, 1916. Ottumwa; Ottumwa Poultry Ass'n.; D. E. Hale, judge; V. Reinhard, sec., 105 N. Weller st.
Dec. 4 to 8, 1916. Atlantic; Botna Valley Poultry Ass'n.; A. B. Shauer, judge; Max Ross, sec.
Dec. 4-8, 1916. Iowa City; The Iowa City Poultry Ass'n.; Glen F. Richards, judge; Jake L. Yager, sec., Box 202.
Dec. 4-8, 1916. Villisca; The Villisca Poultry Ass'n.; Mrs. Chas. Warren, sec.
Dec. 5-8, 1916. Centerville; Appanoose County Poultry Ass'n.; show called off.
Dec. 8-14, 1916. Des Moines; Iowa Poultry and Pet Stock Ass'n.; D. E. Hale, E. C. Branch, R. Palmer, judges; C. P. Headington, sec., 209-211 Walnut st.
Dec. 11 to 15, 1916. Clarinda; Southwest Iowa Poultry Ass'n.; V. O. Hobbs, judge; J. V. Pfander, sec.
Dec. 12-15, 1916. Hampton; Hampton Poultry Ass'n.; Glen F. Richards, judge; H. W. Hardy, sec.
Dec. 26-29, 1916. Lowden; Lowden Poultry Ass'n.; F. H. Shellabarger, judge; O. C. Pancratz, sec.
Jan. 1-6, 1917. Burlington; Burlington Poultry Ass'n.; J. A. Tucker, L. C. Dietz, judges; John A. Dehner, sec.
Jan. 1-7, 1917. Marshalltown; Marshalltown Poultry Ass'n.; W. G. Warnock, judge; C. C. Lownsberry, sec., 405 E. State st.
Jan. 2-5, 1917. Mt. Vernon; Mt. Vernon Poultry Ass'n.; F. H. Shellabarger, judge; H. C. Gilliland, sec.
Jan. 4-9, 1917. Dubuque; Iowa State Poultry Ass'n.; Tucker, Dale, Athens, judges; Walter Hurd, sec., 2222 Grandview ave.
Jan. 8-12, 1917. Mason City; Upper Iowa Poultry Ass'n.; Joseph Dagle, judge; B. A. Wisner, sec.
Jan. 22-26, 1917. Cedar Rapids; Western Poultry Fanciers Ass'n.; F. H. Shellabarger, U. J. Shanklin, judges; H. J. Whitfield, sec.

KANSAS.

Nov. 27-30 to Dec. 1-2, 1916. Emporia; Lyon County Poultry Ass'n.; E. W. Cook, judge; F. J. Horton, sec.
Dec. 4-9, 1916. Fredonia; Wilson County Poultry and Pet Stock Ass'n.; E. W. Cook, judge; A. K. Sell, sec.
Dec. 5-8, 1916. Kingman; Jno. C. Snyder, judge; V. M. Ravenscroft, sec.
Dec. 11-16, 1916. Greensburg; Kiowa County Poultry Ass'n.; P. H. Landrith, sec.
Dec. 12-15, 1916. Kansas City; Kansas City Mid-West Poultry Ass'n.; C. A. Emry, T. L. Pollock and Shedd, judges; Wm. Hunter, sec., 2648 N. 22nd st.
Dec. 12-15, 1916. Plainville; J. C. Snyder, judge; A. Wiley, sec.
Dec. 11-16, 1916. Independence; Independence Poultry Club; W. H. Scott, A. T. Modlin, judges; M. H. Hunter, sec., Box 110.
Dec. 18-22, 1916. Pittsburg; The Kansas State Poultry Federation; Quisenberry,

Branch and McClasker, judges; D. J. Mackey, sec., 912 Rouse st.

Jan. 1-5, 1917. Hutchinson: The Arkansas Valley Poultry Assn.; J. J. Atherton, W. C. Tallant, judges; W. B. Powell, sec., 622 13th st. West.

Jan. 2-5, 1917. Leavenworth: Leavenworth Poultry Assn.; E. C. Branch, judge; Chas. M. Swan, sec. Lansing, Kas.

Jan. 2-6, 1917. Solomons: J. C. Snyder, judge; E. C. Comstock, sec.

KENTUCKY.

Nov. 20-25, 1916. Owensboro: Owensboro Poultry Club; D. T. Heimlich, judge; D. C. Gordon, sec.

Nov. 27-30 to Dec. 1-2, 1916. Henderson: Henderson Poultry Assn., M. M. Alves, sec., 115½ N. Main st.

Jan. 5-9, 1917. Lexington: Ky. Experiment Sta., J. J. Hooper, sec.

LOUISIANA.

Nov. 1-6, 1916. Shreveport: Louisiana State Fair, L. N. Brueggerhoff, sec.

Nov. 11-19, 1916. New Orleans: New Orleans Farm and Live Stock Assn.; R. E. Bruce, supt. poultry, 730 Pydras st.

Dec. 13-16, 1916. Alexandria: Central La. Poultry and Pet Stock Assn.; F. J. Marshall, judge; W. H. McCrackin, sec.

MAINE.

Dec. 5 to 7, 1916. Sanford: York County Poultry Assn.; L. C. Holmes, sec.

MASSACHUSETTS.

Nov. 22-24, 1916. Holyoke: Holyoke Poultry and Pet Stock Assn.; C. H. Shaylor, O. C. Chapin, F. G. Cook, judges; H. F. Davis, sec., 22 Montgomery ave.



225 eggs. Dam 201 eggs. Sire's dam 220 eggs. A strong argument that Yodelaid Egg Farms is breeding heavy laying stock of exhibition quality.

Nov. 29-30 to Dec. 1-2, 1916. Attleboro: Attleboro Poultry Assn.; Atherton, Bailly, Cook, Allen, Duston, Feather, judges; Frank W. Middleton, sec., 24 Leroy st.

Dec. 5-7, 1916. Greenfield: New England Poultry Assn.; H. Nickolson, F. Wineson, judges; J. H. Bulman, sec.

Dec. 6-8, 1916. Abington: Abington Poultry Assn.; Pratt, Ballou, Shove, judges; Leroy Grinnell, sec., 91 Chapel st.

Dec. 12-14, 1916. Gloucester: Gloucester Poultry Assn.; Chas. Ballou, F. G. Cook, Burbank and Deacon, judges; Ernest Deacon, sec., Annisquam, Mass.

Dec. 13-15, 1916. Norwood: Norwood Poultry Assn.; Shove, Cook, Smith, judges; E. D. Baker, sec., 88 Nichols st.

Dec. 13-16, 1916. Taunton: Taunton Poultry Assn.; Alton G. Clay, sec., Box 45.

Dec. 19-22, 1916. Springfield: Springfield Poultry Club; P. Ives, I. F. Rice, C. H. Wells, judges; G. L. Collette, sec., Box 1226.

Jan. 3-5, 1917. Shelburne Falls: Shelburne Falls Poultry Assn.; C. H. Shaylor, judge; Geo. W. McKnight, sec.

MICHIGAN.

Nov. 29-30 to Dec. 1-3, 1916. Berrien Springs: Berrien Springs Poultry Assn., L. E. Kephart, sec.

Dec. 5-8, 1916. Zeeland: Zeeland Poultry and Pet Stock Assn.; W. A. Bonner, judge; Jno. A. Hartgerink, sec.

Dec. 7-12, 1916. Battle Creek: Battle Creek Poultry Assn.; W. M. Wise, judge; John Conroy, sec., 303 Ward bldg.

Dec. 13-17, 1916. Wyandotte: Wyandotte Poultry and Pet Stock Assn.; Thos. Falkner, judge; G. A. Smock, sec., 80 Walnut st.

Dec. 18-24, 1916. Kalamazoo: Kalamazoo Poultry Fanciers Assn.; N. P. Paulson, sec., Oakwood, Mich.

Dec. 21-25, 1916. Holland: Holland Poultry Assn.; Wm. Wise, judge; Wm. Drinkeloo, sec.

Jan. 1-6, 1917. Kalamazoo: So. West Mich. Poultry Assn.; Johnston of Springfield, Ill., judge; Bert L. Shutts, sec., R. F. D. Augusta.

Jan. 16-19, 1917. Grand Rapids: West Mich. Poultry Assn.; J. H. Drevendst, judge; John Bowstrom, sec., 632 Sinclair av.

Jan. 16-20, 1917. Ludington: Mason County Poultry and Pet Stock Assn.; C. A. Blass, judge; O. E. Hawley, sec., R. No. 3.

Jan. 23-27, 1917. Muskegon: Muskegon and East Shore Poultry Assn.; Wm. Wise, judge; H. S. Noble, 15 Barney ave., Muskegon Heights, Mich.

Jan. 24-29, 1917. Bay City: Bay City Poultry Assn.; J. W. Mullinix, judge; R. H. Schafer, sec., 1425 Trumbull ave.

Jan. 26-31, 1917. Detroit: Michigan Poultry Breeders Assn.; Jas. Tucker, G. M. Wells,

Wm. Wise, judges; F. M. Crowe, sec., Owosso, Mich.

Jan. 29 to Feb. 1, 1917. Ionia: The Ionia County Poultry and Pet Stock Assn.; Wm. M. Wise, judge; V. K. Williams, sec.

MINNESOTA.

Dec. 12-15, 1916. Two Harbors: Lake County Poultry Assn.; Henry Hess, judge; Fred D. W. Thias, sec.

Dec. 12-16, 1916. Winona: E. H. Hoffman, A. C. Smith, judges; A. G. Sklenar, sec.

Feb. 2-6, 1917. Duluth: The Duluth Poultry Assn.; Geo. W. Hackett, judge; S. B. Suydam, sec., 221 E. Fifth st.



EGG-O-HATCH

How and Why it Betters the Hatch And Brings Stronger Chicks

Egg-O-Hatch is a dry powder. Mixed with water it makes a solution rich in loosely available oxygen and with a strong affinity for carbon dioxide. That is, when applied to eggs during incubation, it soaks into the shell and supplies oxygen for the growing chick; absorbs the carbonic acid gas given off; further, by its action on the animal matter of the shell, it renders the shell more porous and brittle.

Up to the hatching point, a chick breathes through innumerable blood vessels located in the inner membrane just within the shell. Close the pores of the shell and the chick quickly dies. Partially close them and the chick is weakened just the same as if partially strangled. If, at the same time, the shell is drying out and becoming harder, tougher and non-porous, a point is reached where the chick is too weak to break out of the tough shell.

The margin between strength of chick and strength of shell is small at the best and good hatches can result only when this margin is kept as large as possible

Egg-O-Hatch is easily and quickly applied to eggs by spraying or dipping. It is used only three times during the 21 days: Our later experimental hatches have invariably shown from 10 to 40 per cent better hatches where Egg-O-Hatch was used, and all were better, stronger chicks. Fifty test hatches showed an average of 96 per cent for eggs treated with Egg-O-Hatch, and 81 per cent for eggs not treated, **RIGHT IN THE SAME MACHINE.** Egg-O-Hatch is easily proven. Use it on half the eggs in an incubator.

ONE SIZE ONLY. 50 cents postpaid, or at dealers. Sufficient for 600 to 700 eggs. Sample 10 cents. Enough for 50 to 100 eggs. Our No. 19 Atomizer, all glass and rubber, is handiest and best way to apply Egg-O-Hatch. **PRICE 75 CENTS.**

To rid chickens and their roosting places of lice and mites, paint or spray **Lee's Lice Killer** on the roosts. Kills lice on bodies of poultry roosting over it; also insects causing "scaly leg." No handling, dusting, dipping or greasing. \$1.25 gallon, express prepaid; \$1 at dealers.

Germozone, given in drinking water, purifies the water and vessels, prevents spread of disease, counteracts musty or spoiled food, prevents and relieves bowel troubles. Is effective remedy for roup, colds, swelled head, canker and skin disease. Liquid form, 12 oz., 50c; tablet form, 50c postpaid.

Egg-o-latum, for preserving eggs, 50-dozen size, 50 cents postpaid. **Lee's Egg Maker**, five sizes, 25c, 50c, \$1.25, \$2.50 and \$8. **Lee's Louse Powder**, two sizes, 25c, 50c—1¼ and 3-lb. sizes. **Mandy Lee Incubators**, 60 to 300-egg. Brooders, 5 kinds. Send for catalog, poultry books and delivery terms.

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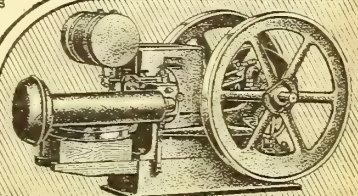
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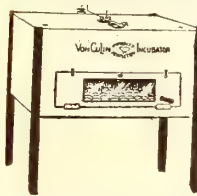
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For Sale: 3 Candee Mammoth Hot Water Incubators of the following sizes: One 8400-egg, one 6600-egg, one 4200-egg capacity. Will sell cheap if sold soon. If interested write for price and particulars.

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Won at Buffalo, the past 5 yrs., 4 firsts and 3 seconds on chks., 3 firsts and 3 seconds on pils., and all firsts on hens. Choice birds, or eggs for hatching. A. F. ALMENDINGER, 180 E. Delavan Av., Buffalo, New York

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(THE MODERN LICE KILLER) LICEOFF COMPANY, GREEN BAY, WIS.

MISSOURI.

Nov. 13-15, 1916. Concordia; Concordia Poultry Assn.; E. C. Branch, judge. Jno. F. Burns, sec.

Nov. 13-18, 1916. Paris; Monroe County Poultry Assn.; T. E. Quisenberry, judge; J. W. Jackson, sec.

Nov. 15-18, 1916. Canton; Canton Poultry Assn.; J. C. Johnston, judge; C. M. Ewalt, sec.

Nov. 24-30, 1916. St. Louis; St. Louis Poultry and Pet Stock Assn.; Chas. K. Culom, sec., 4950 Wise ave.

Nov. 27-30, 1916. La Belle; Le Belle Poultry Assn.; T. E. Quay, judge; C. G. Calhoun, sec.

Nov. 27-30 to Dec. 1, 1916. Sedalia; Sedalia Poultry Assn.; D. T. Heimlich, judge; Fred A. Benz, sec.

Nov. 29-30 to Dec. 1, 1916. Carrollton; Carroll County Poultry Assn.; V. Southard, judge; Mrs. A. J. Ginnaird, sec., R. F. D. 9.

Nov. 28-30 to Dec. 1-2, 1916. Butler; The Bates County Poultry Assn.; Tom Woods, judge; Edson Snyder, sec.

Nov. 29 to Dec. 2, 1916. Brunswick; Charlton County Poultry Assn.; E. C. Branch, judge; W. W. Daily, sec.

Dec. 5-9, 1916. St. Joseph; Buchanan County Poultry Assn.; Hale, Southard, Thompson, judges; S. R. Casper, sec., 117 S. 8th st.

Dec. 4-7, 1916. Richmond; Ray County Poultry Assn.; E. C. Branch, judge; C. A. Brown, sec., R. F. D. No. 2.

Dec. 5-9, 1916. St. Joseph; Missouri State Poultry Assn.; Hale, Southard, Thompson, Palmer, judges; Fred Crosby, sec., Mountain Grove, Mo.

Dec. 6-9, 1916. Kirksville; Adair County Poultry Assn.; E. C. Branch, judge; Walter Martin, sec.

Dec. 11-16, 1916. Joplin; Mineral Belt Poultry and Pet Stock Assn.; E. W. Rawlin, L. C. Taylor, judges; Dr. C. S. Tisdale, sec.

Dec. 14-16, 1916. Dexter; Stoddard County Poultry Assn.; Tom Woods, judge; J. L. Smithson, sec.

Dec. 19-21, 1916. Louisiana; Pike County Poultry Assn.; D. T. Heimlich, judge; C. H. Winn, sec.

Dec. 19-23, 1916. Maryville; Northwest Mo. Poultry Assn.; Joseph H. Sayler, sec.

Dec. 28-30, 1916. Kennett; Elmer Gimlin, judge; A. C. Landell, sec.

Jan. 1-7, 1917. Springfield; Greene County Poultry Assn.; C. A. Emery, judge; C. H. Fawcett, sec.

Jan. 8-13, 1917. Kansas City; The Kansas City Poultry Show; V. O. Hobbs, T. E. Quisenberry, T. W. Southard, A. J. Meyer, V. H. Southard, judges; E. L. Noyes, sec., Manhattan bldg.

MONTANA.

Jan. 15-20, 1917. Kalispell; Northwest Montana Poultry Assn.; C. A. Greenfield and O. Nelson, judges; G. Fred'k Tate, sec., Box 707.

NEBRASKA.

Nov. 27-30 to Dec. 1-2, 1916. Omaha; Greater Omaha Poultry Fancier Assn.; Shellabarger, Shaner, Smiley, Schreff, judges; R. R. Foster, publicity mgr.; W. E. Backer, sec.

Nov. 28-30 to Dec. 1-2, 1916. Hickman; Hickman Poultry and Grain Assn.; A. H. Smith, judge; P. G. Fieselmann, sec.

Dec. 4-9, 1916. Beatrice; Beatrice Poultry Assn.; G. E. Schreff, judge; David O. Kassing, sec., R. 2.

Jan. 8-11, 1917. Wymore; Wymore Poultry Assn.; Guy E. Schreff, judge; J. Martz, sec.

NEW HAMPSHIRE.

Dec. 5-8, 1916. Laconia; Lake City Poultry Assn.; Burbank, judge; R. L. Piper, sec.

Dec. 12-14, 1916. Marlboro; Marlboro Poultry and Pet Stock Assn.; David Coutts, Jr., sec., Box 36.

Dec. 12-15, 1916. Derry; Derry Poultry Assn.; Cutting and Nicholson, judges; E. A. Cross, sec., 27 Birch st.

Nov. 28-30 to Dec. 1-3, 1916. Elizabeth; Union County Poultry Assn.; L. P. Graham, J. C. Punderford, M. S. Chapman, W. Hobbs, judges; A. J. Churchill, sec., 724 Canton st.

Nov. 29 to Dec. 2, 1916. Hackensack; Bergen County Poultry Assn.; O. J. Grathwohl, sec., Hyler st.

Dec. 8-9, 1916. Town Hall, Woodbury; The Gloucester County Poultry Assn.; L. Chessman, sec., Sewell, N. J., Box 22.

NEW MEXICO.

Dec. 10-17, 1916. Portales Clovis; Eastern New Mexico Poultry Assn.; Shellabarger, judge; Jno. L. Reid, sec.

NEW YORK.

Nov. 13-18, 1916. Cherry Valley; Cherry Valley Poultry Assn.; Geo. M. Weed and J. W. Sloan, judges; D. M. Green, sec.

Nov. 23-25, 1916. Pleasantville; Pleasantville Poultry Club, Geo. H. Baker, sec.

Dec. 4-8, 1916. Sidney; Unadilla Valley Poultry and Pet Stock Assn.; Archie E. Vandervort, sec., Sidney Centre.

Dec. 11-16, 1916. Buffalo; The Greater Buffalo Show, Wm. H. Gaude, sec., 322 Electric bldg.

Dec. 18-22, 1916. Oneonta; Oneonta Poul-

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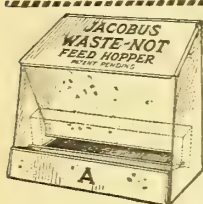
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try and Pet Stock Assn.: Frank Hanes, sec. Dec. 19-22, 1916. Oxford; Chenango Valley Poultry and Pet Stock Assn.; Wm. O. Cooper, sec.

Dec. 25-30, 1916. Jamestown; Chautauqua County Poultry Assn.; Alt, Ellison, Burgett, judges; Wm. S. Rathbun, sec., 8 Kingsbury ave.

Dec. 28, 1916, to Jan. 3, 1917. New York; Madison Square Garden; Chas. D. Cleveland, sec., Madison Square Garden.

Jan. 10-13, 1917. Elmira; Chemung County Poultry Assn. (formerly Elmira Heights Poultry Club); F. I. Bradford, judge; H. B. Peckham, sec., 208 Scottwood ave.

NORTH CAROLINA.

Dec. 6-9, 1916. Charlotte; Mecklenburg Poultry and Pet Stock Club; Chas. Nixon, judge; Howard C. Hull, sec., Paw Creek, Route No. 10.

NORTH DAKOTA.

Jan. 31 to Feb. 1-2, 1917. Bismarck; Mo. Slope Poultry Assn.; E. S. Roberts, judge; Frank Milhollan, sec.

OHIO.

Nov. 28 to Dec. 2, 1916. Marion; Marion County Poultry Assn.; F. W. Traviss, judge; Earl Sargent, sec., 135 Waterloo st.

Nov. 27 to Dec. 2, 1916. Akron; M. Rennes, sec.

Nov. 28-30 to Dec. 1-3, 1916. Dayton; The Dayton Fancy Feather Club; W. C. Young, A. H. Emch, judges; C. D. Forney, sec., 1524 W. 3rd st.

Dec. 6-8, 1916. New Concord; New Concord Poultry Assn.; Chas. E. Cram, judge; F. F. Pollock, sec.

Dec. 11-16, 1916. Kent; Kent Poultry Assn.; Claude E. Coe, judge; F. R. Williams, sec.

Dec. 11-16, 1916. Defiance; L. A. Stream, judge; Geo. E. Miller, sec.

Dec. 12-16, 1916. Zanesville; The Zanesville Fanciers Assn.; A. C. Hawkins, judge; Geo. H. Wilking, sec.

Dec. 18-23, 1916. Jenera; H. C. Miller, judge; A. E. Wilch, sec.

Jan. 1-6, 1917. Ashland; Ashland Poultry Breeders Club; J. O. Gault, judge; W. H. Yunker, sec.

Jan. 1-6, 1917. Kenton; Kenton Poultry Assn.; H. C. Miller, judge; Jno. P. Siemon, sec., R. F. D. No. 7.

Jan. 2-6, 1917. Waynesville; Miami Valley Poultry Assn.; S. G. Case, judge; L. C. St. John, sec.

Jan. 2-8, 1917. Lancaster; Lancaster Poultry Assn.; Whitaker, judge; Thos. Baur, sec.

Jan. 3-6, 1917. Woodsfield; Chas. McClave, judge; Ray Kinney, sec.

Jan. 8-13, 1917. Cleveland; The Cleveland Poultry Breeders Assn.; Platt, Gault, Stream, Tormohlen, Johnson, judges; J. O. Somers, sec., Bedford, Ohio.

Jan. 8-14, 1917. Mt. Victory; The Mt. Victory Poultry Assn.; Z. D. Struble, judge; L. J. Thompson, sec.

Jan. 9-13, 1917. Wauseon; Wauseon Poultry and Pet Stock Assn.; F. W. Traviss, judge; Harry L. Merrill, sec.

Jan. 10-13, 1917. Jamestown; The Jamestown Poultry Assn.; T. Paulstich, judge; R. H. Glass, sec.

Jan. 15-20, 1917. Gallipolis; Gallia Poultry Assn.; W. C. Young, judge; C. J. McCormick, sec.

Jan. 15-21, 1917. Galian; The Galian Poultry Fanciers; F. K. Ricketts, judge; A. D. Diamond, sec.

Jan. 16-20, 1917. Clyde; Clyde Poultry Assn.; J. E. Gault, judge; Earl A. Miller, sec.

Jan. 17-21, 1917. Port Clinton; D. D. Whitaker, judge; G. T. Conly, sec., 216 3rd street.

Jan. 22-27, 1917. Marietta; The Ohio Valley Poultry Assn.; J. E. Gault, judge; T. N. Fenn, sec.

Jan. 23-27, 1917. Amherst; Amherst Scientific Poultry Assn. Geo. Northup, judge; Chas. M. Hamann, sec.

OKLAHOMA.

Dec. 12-16, 1916. Woodward; North West Okla. Poultry Assn.; V. H. Southard, K. C. Ueo, judges; Dr. C. J. Forney, sec.

Dec. 14-16, 1916. Sulphur; Murray County Poultry Assn.; Walter S. Bowers, judge; H. W. Broadbent, sec.

Dec. 19-23, 1916. Alva; J. C. Snyder, judge; W. Sedore, sec.

Dec. 28-30, 1916. Ada; Pontotoc County Poultry Assn.; W. Bowers, judge; T. O. Culin, sec., Box 182.

Jan. 1-6, 1917. Okmulgee; Okmulgee County Poultry Assn.; W. G. Rollins, sec.

Jan. 8-13, 1917. Enid; Big Center Poultry and Pet Stock Assn.; Tom Wood, judge; C. C. Evans, sec.

Jan. 10-13, 1917. Carnegie; Jno. C. Snyder, judge; P. C. Dawson, sec.

OREGON.

Dec. 4-9, 1916. Portland; Oregon Poultry and Pet Stock Assn.; J. A. Tucker, B. F. Keeney, Wm. Coats, Tom Wilkinson, O. Nelson, judges; J. M. Mann, sec., 382 Stark st.

PENNSYLVANIA.

Thanksgiving week. Lebanon; Lebanon County Poultry Assn. Sam Black, sec., 1012 Cumberland st.

Nov. 28-30 to Dec. 1, 1916. Tyrone; Ty-

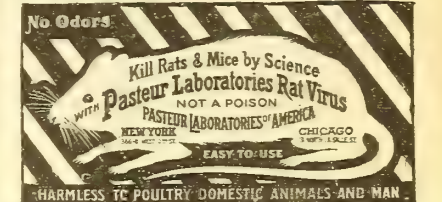
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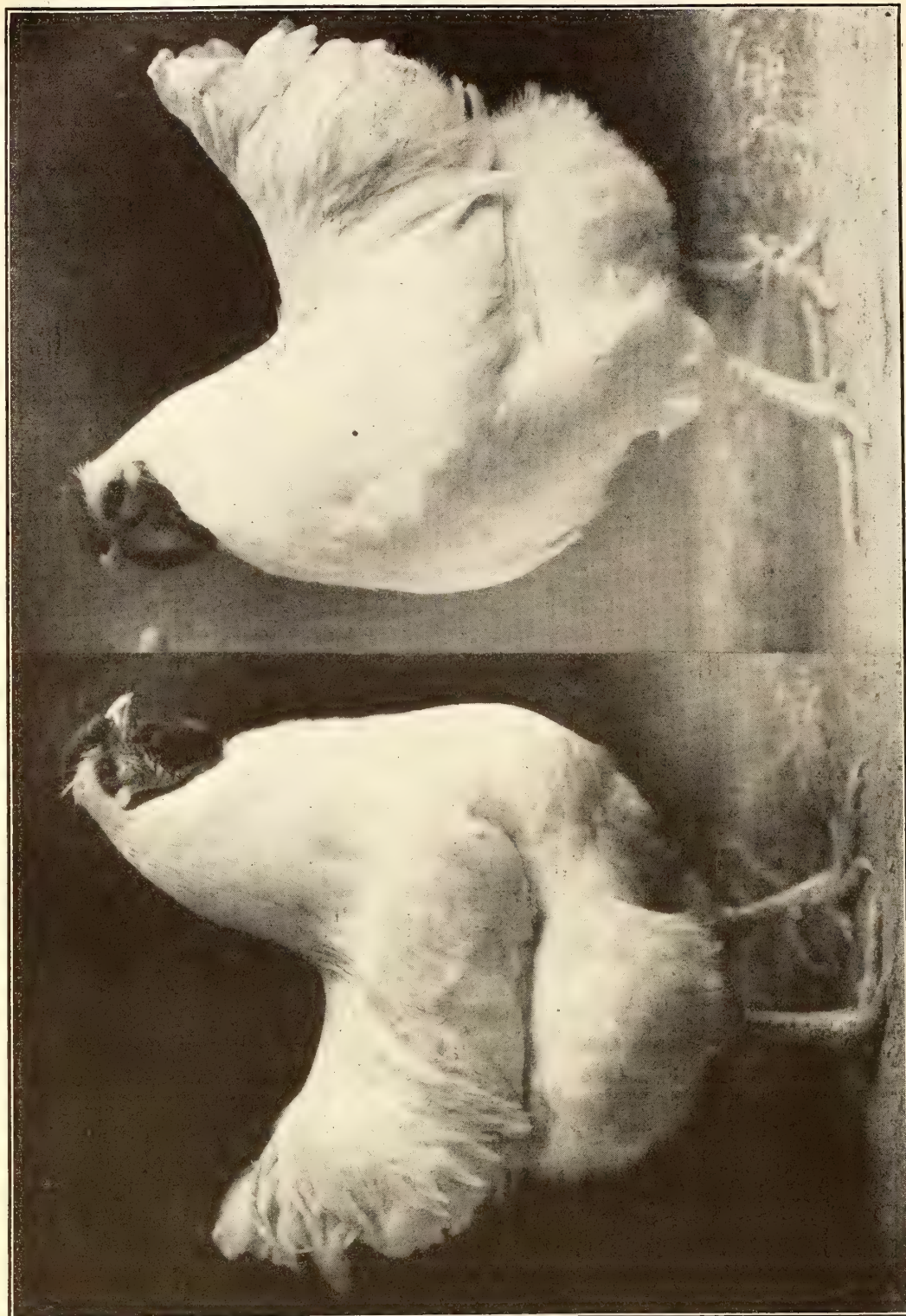
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Nov. 27 to Dec. 2, 1916. Pittsburgh; Greater Pittsburgh Poultry Assn.; A. J. Henning, sec., 1812 Carson st.

Dec. 5-8, 1916. Johnsonburg; H. C. Miller, judge; H. I. Roussey, sec.

Dec. 4 to 9, 1916. Wilkes Barre; Wilkes Barre Poultry and Agri. Assn.; J. Kriner, J. H. Minshall, judges; Fred Roll, sec., 550 Carey ave.

Dec. 12-15, 1916. Stroudsburg; Monroe County Poultry Assn.; H. C. Kandel, judge; E. M. Paxton, sec.

Dec. 18-22, 1916. Blairsville; Blairsville Poultry Assn.; J. E. Weaver, C. S. Smith, judges; G. M. Wilkinson, sec.

Dec. 18-22, 1916. Kane; Mountain City Poultry and Pet Stock Assn.; J. F. Nelson, judge; N. K. Whitehill, sec.

Dec. 26-30, 1916. Boyertown; The Boyertown Poultry and Pet Stock Assn.; E. M. Ulrich, Chas. Rosenow, judges; Harry R. Manderslice, sec.

Dec. 27-30, 1916. Sinking Spring; Lebanon Valley Poultry and Agri. Assn.; Geo. H. Northup, judge; Adam Stitzel, sec.

Jan. 16-20, 1917. Jeannette; Westmoreland Poultry Assn.; L. A. Kearns, sec., 215 N. 3rd st.

Jan. 24-27, 1917. Oil City; Oil City Poultry Assn.; Chas. McClave, judge; Chas. R. Baker, sec.

Jan. 30-31 to Feb. 1-3, 1917. Butler; But-

ler Fanciers Club; A. F. Kummer, judge; David H. Rankin, sec., 112 Hazel ave.

RHODE ISLAND.

Nov. 8-11, 1916. Cranston; Cranston Poultry Assn.; D. P. Shove, W. H. Allen and others, judges; C. E. Humphrey, sec., 143 Crescent ave.

Nov. 23-25, 1916. Pawtucket; Pawtucket Poultry Assn.; Allen, Ballow, Atherton, Benson, judges; E. J. Gibbons, sec., 206 Lowden street.

Dec. 5-9, 1916. Providence; R. I. Poultry Assn.; Lambert, Shore, Allen, Roger, Andrews, judges; W. L. Brown, sec., 6 Exchange place.

Dec. 12-14, 1916. Bristol; Bristol County

Poultry Assn.; Wm. H. Allen, M. A. Brayton, judges; James U. Clarkson, sec., 10 Mt. Hope ave.

Dec. 12-15, 1916. Wakefield; So. Kingstown and Narragansett Poultry Assn.; P. P. Ives, H. E. Bebbe, D. J. Lambert, judges; Geo. E. Harvey, sec., Box 143.

SOUTH DAKOTA.

Jan. 22-26, 1917. Mitchell; So. Dakota State Poultry Assn.; G. D. Holden, E. C. Branch, judges; R. C. Raines, sec., 207 E. 7th ave.

TEXAS.

Nov. 20-25, 1916. Corpus Christi; Nueces County Poultry and Pet Stock Assn.; H. B. Savage, judge; J. F. Herold, sec.

Nov. 20-25, 1916. Houston; South Texas Poultry and Pet Stock Assn.; Walter Burton, judge; F. W. Allen, sec., c/o Hinke & Pilot. Nov. 29-30 to Dec. 1-2, 1916. Lockhart; Caldwell Poultry Assn.; C. P. Van Winkle, judge; J. W. Tardy, sec.

Nov. 30 to Dec. 1-2, 1916. Stephenville; Erath County Poultry Assn.; R. A. Davis, judge; W. T. Graves, sec.

Dec. 6-9, 1916. Victoria; Gulf Coast Poultry and Pet Stock Assn.; S. B. Johnston, judge; F. F. Aschbacher, sec.

Dec. 13-16, 1916. Sherman; The Grayson County Poultry Assn.; J. L. Mitchell, sec.

VERMONT.

Dec. 6-8, 1916. Bellows Falls; Conn. Valley Poultry Assn.; F. G. Cook, P. P. Ives, C. H. Brundage, judges; G. S. Buxton, sec.

VIRGINIA.

Jan. 9-13, 1917. Norfolk; The Old Dominion Poultry Assn.; Chas. Nixon, J. Eberly, H. M. Kenner, judges; L. C. Page, sec., 123 Bank st.

WASHINGTON.

Dec. 27-30, 1916. Dayton; Columbia County Poultry Assn.; Oscar Nelson, judge; B. D. Leonard, sec.

Jan. 2-7, 1917. No. Yakima; Yakima Poultry Assn.; Harry H. Collier, judge; Harold Paddock, sec., R. 3.

WEST VIRGINIA.

Jan. 15-20, 1917. Charleston; Charleston Poultry Assn.; Newton Cosh, judge; Julian C. Byrd, sec., P. O. Box 898.

WISCONSIN.

Nov. 30 to Dec. 3, 1916. Manitowoc; Manitowoc Feathered Stock Assn.; Geo. M. Wells, judge; John Krundick, sec.

Dec. 4-11, 1916. La Crosse; Western Wisconsin Poultry Assn.; Geo. Wells, G. W. Hackett, judges; J. E. Kircheis, sec.

Dec. 6-10, 1916. Oconomowoc; Oconomowoc Poultry and Pet Stock Assn.; W. E. Stanfield, judge; Geo. C. Johnson, sec.

Dec. 14-20, 1916. Beloit; The Beloit Poultry and Pet Stock Assn.; Geo. Wells, judge; Guy S. Lee, sec., 737 Grant st.

Dec. 18-21, 1916. Sussex; The Sussex Cooperation Poultry Breeders; Geo. W. Hackett, judge; Chas. Tempero, sec.

Dec. 18-22, 1916. Mukwonago; Mukwonago Poultry and Pet Stock Assn.; H. Hoffman, judge; R. J. Porter, sec.

Dec. 26-29, 1916. Manawa; Manawa Poultry Assn.; E. L. Hayes, judge; A. C. Lindsay, sec., Park ave.

Dec. 28-31, 1916. Fort Atkinson; Jefferson County Poultry Assn.; W. C. Pierce, judge; J. F. Mueller, sec.

Jan. 3-6, 1917. Superior; E. H. Hoffman, judge; John Tyson, sec., 2513 Wellington st.

Jan. 3-7, 1917. De Pere; The De Pere Poultry Assn.; James A. Daley, judge; Chas. Behrendt, sec., Green Bay, Wis.

Jan. 3-7, 1917. Sheboygan; Sheboygan Poultry and Pet Stock Assn.; Geo. Wells, judge; Geo. Spratt, sec.

Jan. 4-7, 1917. Fond du Lac; Fond du Lac Poultry and Pet Stock Assn.; D. E. Hale, judge; E. A. Sommerfeld, sec., 79 E. 9th st.

Jan. 8-13, 1917. Mineral Point; Mineral Point Poultry Assn.; Geo. H. Northup, judge; Allen Tucker, sec.

Jan. 9-14, 1917. Oshkosh; Wis. State Poultry Assn.; Chas. V. Keeler, judge; L. C. Hanley, sec., 112 Main st.

Jan. 10-15, 1917. Appleton; Fox River Poultry and Pet Stock Assn.; Hackett and

Wells, judges; Wm. F. Mueller, sec., 422 Franklin st.

Jan. 16-19, 1917. Eau Claire; E. H. Hoffman, judge; A. H. Ahrens, sec., 317 Jeff. st. Jan. 17-21, 1917. Green Bay; North Eastern Poultry and Pet Stock Assn.; Geo. Hockess, judge; M. J. Rahn, sec., 305 Main.

STATEMENT OF THE OWNERSHIP, MANAGEMENT, CIRCULATION, ETC., REQUIRED BY THE ACT OF CONGRESS OF AUGUST 24, 1912.

OF AMERICAN POULTRY JOURNAL PUB. CO., published monthly, at Chicago, Illinois, for October, 1916.

State of Illinois, County of Cook, ss.

Before me, a Notary Public, in and for the State and county aforesaid, personally appeared James W. Bell, who, having been duly sworn according to law, deposes and says that he is the Editor of the AMERICAN POULTRY JOURNAL, and that the following is, to the best of his knowledge and belief, a true statement of the ownership, management (and if a daily paper, the circulation), etc., of the aforesaid publication for the date shown in the above caption, required by the Act of August 24, 1912, embodied in section 443, Postal Laws and Regulations, printed on the reverse of this form, to-wit:

1. That the names and addresses of the publisher, editor, managing editor, and business managers are:

Publisher—AMERICAN POULTRY JOURNAL PUB. CO., 542 So. Dearborn St., Chicago, Ill.

Editor—James W. Bell, 542 So. Dearborn St., Chicago, Ill.

Managing Editor—Prince T. Woods, Silver Lake, Mass.

Business Manager—James W. Bell, 542 So. Dearborn St., Chicago, Ill.

2. That the owners are: (Give names and addresses of individual owners, or, if a corporation, give its name and the names and addresses of stockholders owning or holding 1 per cent or more of the total amount of stock.)

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3. That the known bondholders, mortgagees, and other security holders owning or holding 1 per cent or more of total amount of bonds, mortgages, or other securities are: (If there are none, so state.)—None.

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JAS. W. BELL,

Business Manager.

Sworn to and subscribed before me this Eighteenth day of September, 1916.

(SEAL) ALICE A. SHEHAN,

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50 LARGE WHITE Orpington cockers, February hatched. \$2 to \$5.00. Modglin's White Orpington Yards, Metropolis, Ill. 9-11

ALDRICH COCKERELS and pullets. Description and prices on request. Art. F. Linders, Baldwin, Ill. 9-11

ALL OF MY WHITE Orpington show birds for sale. Shipping coops and training cages. Satisfaction guaranteed. Edward Schiller, Pattersonville, N. Y. 11

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WHITE CRESTED BLACK Polish, Bearded Silver and Buff Polish. 1st prize winners at great Chicago shows, winning more first prizes than all other competitors together since 1908. Trios, from \$7.00 up. Kakuska, Berwyn, Illinois. 11-1

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PINECREST ORCHARDS, Groton, Mass., now head the list of S. C. Reds at Storrs' laying contest. Write for prices. 11

APRIL HATCHED UTILITY pullets, 10 for \$15. Payne Bros., R. C. Reds, Box J, Portland, Conn. 11

ROSE AND SINGLE COMB Rhode Island Reds, bred from prize winners. Cockerels and pullets, \$2.00 up. Geo. J. Seifert, Mt. Vernon, Ind., Route 7. 10-12

S. C. R. I. REDS—Scranton strain. One year old hens and cocks, nice pullets and cockers of the dark red, large size, good type kind. C. A. Cutchins, Franklin, Va. 10-12

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400 REDS, ROSE and Single Comb. Large, even color, bred for exhibition quality and heavy egg production. Young and old, to make room. \$2.00 each. Circular. Wadsworth Poultry Farm, Waynesville, Ohio. 11

GLADSTONE STRAIN OF S. C. REDS, winners at Madison Square Garden and Boston, 1916. Prices reasonable. Rock Ledge Farm, Box A, Southboro, Mass. 11

A FEW CHOICE pedigreed trap-nested S. C. R. I. Reds, with records of 171. \$3 each. Pine Ridge Farm, Box 456, Southboro, Mass. 11

TOMPKIN'S S. C. REDS—Quality cockers, \$3 each. Shipped on approval. Satisfaction guaranteed. Write. C. Steckel, White Hall, Ill. 11-1

ROSE COMB REDS — Closing out sale. Cocks, cockers, hens and pullets. Exhibition and breeding stock at a bargain. Write your wants. Goshen Poultry Yards, Goshen, Indiana. 11-1

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STOCK FOR SALE—From the Great R. I. White Farm. Rose and Single Comb. \$6.00 per trio, \$10.00 per pen. H. Eichelmann, Waterloo, Ill. 10-12

RHODE ISLAND WHITES—Both combs. Hundreds of good cockers and pullets. Prices very low. Circular free. West Shore Farm, Douglas, Michigan. 9-11

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CHOICE ROSE COMB R. I. White cockers, \$1.00, \$2.00 each. Geo. W. Adams, Grove City, Ohio. 11

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PARKS 200-EGG BARRED Rock cockers, \$3.00 up. Frederick Matteson, 3808 Woodley Lane, Washington, D. C. 10-12

THOMPSON'S BARRED ROCKS—Pullets, yearlings, cockers. Catalog. Failing Poultry Farm, La Fargeville, N. Y. 10-12

BARRED ROCK COCKERELS \$1.50 each. Persian kittens for sale cheap. Won 1st cockerel, Bushnell, score 92 points. Edwin Laux, Bushnell, Ill. 10-12

BARRED ROCK BREEDERS—Learn more about your variety, subscribe for National Barred Rock Journal, Union City, Mich., issued monthly and devoted exclusively to the Grand Old Breed. 50c a year, 3 years \$1, sample 5c. 3-16-17

BARRED ROCKS—Thompson's Ringlets direct. Bargains in exhibition and breeding birds. Cocks, cockers and pens. Quality high, prices low. S. L. Gould, Table Grove, Ill. 9-11

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BARRED ROCKS—A CHOICE lot of cockers and pullets for sale at reasonable prices. Prize winning strain. Both matings. Special price on late hatched stock. Geo. R. Sandborg, Galesburg, Ill. 11

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BARRED ROCKS — SOME FINE young stock from my 1916 Boston winners. Prices reasonable. Bear Brook Poultry Farm, Wakefield, Mass. 11

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BUFF ROCKS—CRESCENT strain. Also White Rocks, Fishel strain. Both kinds are good layers, good shape, size and color. Rachel Sheppard, Pearl, Ill., Route 1. 10-12

HEISER'S ALL-GOLD strain Buff Rocks—Quality stock at \$1.00 to \$10.00 each. Circular free. J. A. Heiser, Fisher, Ill. 11-1

BUFF ROCKS — Exhibition and breeding stock. Great layers. Field, Somers, Conn. 11-2

PARTRIDGE PLYMOUTH ROCKS.

AMERICA'S PROVEN CHAMPION Partridge Rocks and Bronze Turkeys. See our adv. on page 1237. 2-15-16

YOUNG AND OLD prize winning Noftzger's Partridge Rocks at pleasing prices. Frank Neudecker, Sleepy Eye, Minn. 10-12

PARTRIDGE PLYMOUTH ROCKS—Choice yearling hens, cockers and pullets, \$2.00 each, 3 for \$5.00. Catalog free. Hacker Poultry Co., Marissa, Ill., Box A. 10-11

FANCY PARTRIDGE ROCK cockers for sale. 5 to 7-lb. weight. April 3rd hatch; fancy. O. K. Albert W. Ecker, Box 52, R. F. D., Milford, Ill. 11-1

IF YOU WANT QUALITY Partridge Rocks write me. Stock ready for shows. 25 years a Partridge specialist. C. E. George, Union City, Mich. 11-12

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COLUMBIAN PLYMOUTH ROCKS—Enslin strain. T. J. Enslin, Hackettstown, N. J. 1-16-17

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WHITE ROCK COCKERELS. Woodford Poultry Farm, R. 10, Cincinnati, O. 11

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RED SUSSEX—UTILITY and exhibition birds for sale. Write for prices, etc. Sussex Yards, Alma Centre, Wis. 11-1

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MAMMOTH BRONZE TURKEYS from best known strains, direct. Choice free range birds at reasonable prices by ordering early. C. B. Hargesheimer, North Vernon, Ind. 11-1

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90 ROUEN DRAKES and ducks with size and color. Elmer L. Duttera, Littlestown, Pa. 9-11

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POULTRYMEN'S PRINTING—Quality color work, low prices. Write for samples. The Enterprise Co., Gowanda, N. Y. 11

QUALITY POULTRY PRINTING—Send for beautiful line of samples showing two-color and halftone work, the highest quality stock and most attractive stationery is our aim. We can please you in both quality and price. Loveland Printing House, Lamar, Pa. 11

FARMS FOR SALE.

VINELAND, N. J., FARM Bargain. Crops, poultry and tools all go. 10 acres, near school and neighbors, only 15 minutes drive to center of town. 200 young peaches, half in bearing; 3 acres grapes. Good 6-room house with cellar; barn and 3 poultry houses and brooder house heated by hot water; 30-ft. pigeon house. Owner having business elsewhere, includes incubators, poultry, 60 pairs pigeons, fodder and vegetables, \$2,300 takes all, part down. Another of 10 acres for \$1,400, shown same trip. Details both page 15, "Strout's Peace and Plenty Catalogue," just out, copy free. E. A. Strout Farm, Agency, Dept. 4002, 150 Nassau St., New York. 11

FOR SALE—10½ acres of land suitable for poultry farm; 17 miles from center of Chicago. Substantial buildings; over one acre of orchard; carefully selected varieties of fruit. Farm all tiled. Located near main automobile road. Will be sold at a bargain. Owner going to California. Terms reasonable. Geo. Chant, Elmhurst, Ill. 11

FOR SALE — COMPLETE PLANT and North Shore trade. On Sheridan Road, 40 miles north of Chicago, 4 miles north of Waukegan, 1 mile from city railroad and interurban stations. 1,800-egg Candee incubator, 2,500-chick Candee hot-water brooder, 2 houses 16x32 ft., 8 houses 14x14 ft., 25 smaller houses, engine, bone cutter, feed mill, etc. 300 head Reds, Rocks and Leghorns—Cyphers, Poorman and Ferris 200-egg stock; \$1,200 cash. Eight room house, barn and land may be rented as long as desired for \$15 per month. Arthur H. Brooks, Zion City, Ill., R. F. D. No. 1. 11

LARGEST HATCHERY MISSOURI Valley. Cyphers lamp, Candee, gas. Kansas City, heart great poultry section United States. Well established wholesale and retail business. Negotiable contracts in hand and pending season's output. Guaranteed good condition—complete. 1917 will be greatest year following present poultry boom. Unlimited opportunity. Can move. Owner has other interests. Address R. R., c/o American Poultry Journal. 11

CALIFORNIA POULTRY FARMS for sale. Easy payments. E. R. Waite, Shawnee, Oklahoma. 11

ONE ACRE POULTRY and fruit farm for sale. E. Fetzner, Melrose Park, Ill. 10-11

INCUBATORS AND BROODERS.

FOR SALE—2 BRAND NEW 50-egg Buckeye incubators, style E, bought last spring and never taken out of original crates. These machines cost \$8.50 each. Will sacrifice for \$7.00 each. T. N. Norton, 15th and Throop Sts., Chicago, Ill. 11-16-tf

\$160 BUYS 3,000-EGG HALL. Victor Frey, York, Pa. 11

MAMMOTH INCUBATORS—Candee, Cyphers, Hall, Newtown. Any capacity. Every community needs a hatchery. Machines practically new. Guaranteed good condition, complete. Great discounts from catalogs. Be ready when season opens. Install now. State capacity—make desired. Ralph Reed, 7720 Broadway, Kansas City, Mo. 11

FOR SALE—CANDEE, Hall, Newtown incubators cheap. Houck Hatcheries, Tiffin, Ohio. 9-11

FOR SALE—TWO 390-EGG Cyphers incubators. Latest model. Good as new. Used only a few times. Cost new \$80.00. Will sell the two for \$45.00 and will crate them well, before shipping. Whitehall Leghorn Farm, Elmont, Va. 11

FOR SALE—FIFTEEN 400-egg Cyphers incubators; some of them old model; some 1915 model. Good condition guaranteed. M. A. Passmore, Lancaster, Pa. 11

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LARGEST STOCK of typewriters in America. Underwoods one-fourth to one-half manufacturer's prices, rented anywhere, applying rent on purchase price; free trial; installment payments if desired. Write for full information. Ask also about big free offer No. 184. Typewriter Emporium (Established 1892), Chicago, Illinois. 11

MISCELLANEOUS.

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ORDER YOUR CHRISTMAS gift now and let it be an Ukulele (Hawaiian Guitar). No musical home complete without one. Price, \$5.00, charges prepaid. H. A. Franson, Box 228, Honolulu, Hawaii. 11

INVESTIGATE—POULTRYMEN, farmers. A new farm record system. Beats all others. Send for particulars. H. J. Anderson, 614 49th St., Milwaukee, Wis. 11

EXCHANGE.

\$30.00 NEW MANN'S Power Bone Cutter cheap or will exchange for White Leghorns. W. Albers, Lombard, Ill. 11

WANTED.

POULTRYMAN, 6 YEARS experience in commercial poultry raising, wishes position. Herb. Lopper, 890 Stillman St., Philadelphia, Pa. 11

WANTED—TO RENT, well stocked poultry plant on shares, or would run farm for salary and per cent of profits. R. Baker, 1315 Denison St., Muskogee, Okla. 11

MEN OF IDEAS and inventive ability should write for new lists of "Needed Inventions," "Patent Buyers," and "How to Get Your Patent and Your Money." Randolph & Co., Patent Attorneys, Dept. 319, Washington, D. C. 10-16-1yr

WANTED POSITION AS MANAGER on up-to-date plant. 18 years experience in all branches; salary or shares. Box E. G., American Poultry Journal Pub. Co., Chicago, Ill. 11

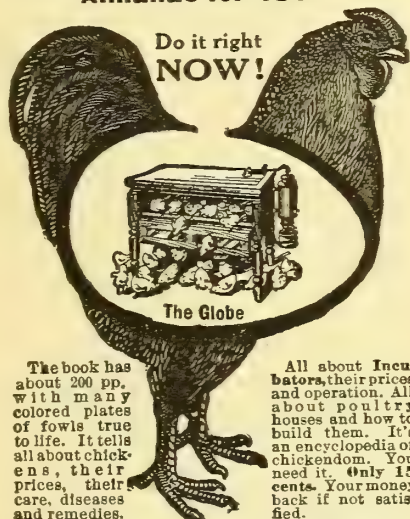
POSITION ON POULTRY plant by experienced man familiar with hatching, brooding and the care of chickens by modern up-to-date methods. Address Modern, c/o American Poultry Journal, Chicago, Ill. 11

WANTED—PULLETS, Leghorns, Rocks, Orpingtons, Reds. Jas. Houck, Tiffin, Ohio. 9-11

WANTED—PULLETS, March, April, May and June hatched, in Golden and Silver Campines, Sicilian Buttercups, Speckled Sussex, Black and White Minorcas, White Buff, Black Orpingtons, S. C. and R. C. White and Brown La horns, Barred, White, Buff, Partridge Rocks, White, Silver, Golden, Columbian Wyandottes, R. C. and S. C. Reds. A good price paid for thoroughbred, healthy, normal pullets that we can use. Walker Lybarger, Gambier, Ohio. 11

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THREE KINDS



Made of Aluminum in 5 sizes; come bent ready to apply. 12-10c; 25-20c; 50-35c; 100-60c, Sample Free.

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The Hill Colony and Magic Brooders

are absolutely the best on the market. For particulars address

UNITED BROODER CO. TRENTON, N. J.

Struble Buff Orpington Farm

Established in 1890, have won the Blue at the leading shows, including Madison Square Garden and Chicago, and they ship birds C. O. D. on approval. Nuff said. Z. D. STRUBLE, Lock Box A. BASCOM, OHIO.

Mgr. and Licensed Judge of all Varieties since 1907.

Poultryman's Account Book Arranged to keep a daily record for one year. Price 25c. American Poultry Journal, 542 S. Dearborn St., Chicago, Ill.

Taylor Tycos INCUBATOR THERMOMETER

Demand a Tycos with the incubator you buy. Equip your present machine with a Tycos. Ask us for instructive booklet "Incubator Facts"—free.

Tycos Brooder Thermometers	- - -	each \$.75
Tycos Hygrometers,	- - -	" 1.50
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During the next 90 days the show history of 1916 will be recorded. Are you prepared to make the showing that will stamp you as a leader in your locality?



Birds that can win the coveted blue

are much sought after. As proof that we have them here at Wilburtha in great numbers, we point

to our remarkable winnings at the world's largest shows.

This year we bred for our customers to win

and will not make a general show campaign, showing only at one or two mid-winter exhibitions.

A good winning will bring you prestige and profit. Let us furnish you with the birds you need. Birds to do their best should be conditioned for a definite time, so your arrangements with us should be made early.

Tell us in your first letter when and where you want to show, about what you are in the market for, and we will get busy on some birds for you.

S. C. White Leghorns
Columbian Wyandottes

Columbian Plymouth Rocks
White Plymouth Rocks

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POULTRY FARMS

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Improver Strain White Wyandottes

Made another big win at the Indiana State Fair, Sept., 1916. Winning first and third pen, first pullet, second cockerel, third hen. Chicago Coliseum, December, 1915, first pullet, 1st young pen. Stock now ready for any show. L. J. DEMBERGER, Box 89, STEWARTSVILLE, INDIANA

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RATES of Illustrated Breeders' Cards: With small sized illustration (to be furnished by us), 40 words 1 month \$3.00, each additional word 7c; 40 words 3 months \$8.00, each additional word 20c; 40 words 6 months \$15.00, each additional word 37c; 40 words 12 months \$25.00; each additional word 62½c. Numbers and initials count as words. Terms: Cash with order. Minimum charge, 40 words. **Copy for advertisement plainly written, should reach this office by the 15th of month preceding date of issue.** In answering these ads please mention AMERICAN POULTRY JOURNAL.



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EXHIBITION AND HIGH class utility White Leghorns, White Wyandottes, White Cochins Bantams. May wood Whites are white. Eggs for hatching, breeding stock, baby chicks. Write for catalog. Registered Airedale terriers, at stud Western Defiance. Maywood Poultry Farm, Box E, Anchorage, Ky. 1-16-1yr



FIFTY VARIETIES OF FINE thoroughbred poultry. Cochins, Brahmans, Langshans, Rocks, Wyandottes, Houdans, Orpingtons, R. I. Reds, Leghorns, Polish, Hamburgs, Spanish, Ducks, Turkeys, Geese. Incubators and Brooders. Large illustrated catalog mailed for 4c. C. M. Atwood, Box A7, Dundee, Minn. 4-16-1tf



WHITE ORPINGTONS—Superior quality. Bred for fourteen years for Purity of color, Proficient utility and Exhibition. Winners strongest competition. 400 ribbons, cups, American Poultry Association and club medals. Grand matings for eggs. Catalog free. F. Bullington, Box A, Richmond, Va. 3-16-1yr



SHORT CROPS and high priced feed forces me to sell 300 of my White Wyandottes. Winners in two laying contests. Never defeated in show room. Missouri State Show silver cup winners, 1915. Free circular. Square Deal Poultry Farm, R. 1, Green Forest, Ark. 3-16-1yr



DARK CORNISH—At Pennyroyal Poultry Show, Hopkinsville, Ky., September, 1916. I took every first and second, also Judge's Cup for best bird on exhibition. For sale—Show birds and breeders, old and young. T. D. Moore, Hopkinsville, Kentucky, Route 7. 12-15-1yr



WHITE WYANDOTTES—We have 100 hens for sale at \$1.50 each; 10 cocks at \$2.50 each. These birds are one and two years old. Fine April hatched cockerels and pullets for sale, \$2.00 each. Snow Drop Poultry Farm, Mystic, Iowa. 2-16-1yr



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ROSE COMB REDS. Bean strain direct, Single Comb Ruby Reds. Few choice breeders to spare, at \$3.00 to \$10.00 each. Satisfaction guaranteed or money back. Fred Oertel, Brighton, Ill. 3-16-1yr



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ROSE COMB BARRED Rocks—the coming Rock. Use our Rose Comb blood in Single Comb flocks and breed frostproof combs. Cockerels, pullets, eggs, baby chicks. Circular free. S. B. Wenger, South English, Iowa. Pres. R. C. B. R. Club. 3-16-1yr



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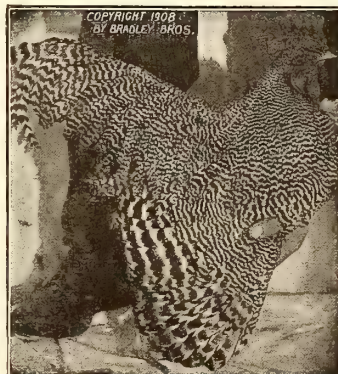
MY ROSE COMB Black Minorcas and Buff Wyandottes have won again this fall at Hagerstown and Ohio State Fair. A grand lot of cockerels and old birds for sale. Dan C. Meek, Coshocton, Ohio. 2-16-1yr



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First Prize New York Show Lines. Our breeders now for sale. Show cock birds and hens for any competition. Breeding birds for the most exacting, all grades, \$5 to \$25 and up. Illustrated circular free.

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All goods guaranteed to be just as represented.
ALUMINUM BANDS with raised figures, price postpaid, 12-15c, 25-20c, 50-30c, 100-50c.



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Every poultry raiser should have our treatise on care and feeding of chicks from shell to maturity. Tells what to do every day. Gives valuable Formulae, worth \$100.00 to poultry raisers. Send 2 cents to cover postage. For 10 cents we will mail a copy to you and six of your friends. Write name plainly.

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Only a few left, not the cheapest, but the best.
E. G. CURTIS Box A ATSON, N. J.

Brown Leghorns, White, White Wyandottes, Barred Rocks, Silkies. Cleveland Blue Ribbon Winners

EVER BETTER

ROSEMOUNT FOWLS
FRANKLIN, PENNSYLVANIA

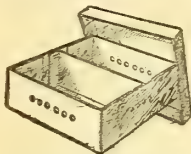
Pekins, Runners, Muscovies. Mating List Free. See Classified Advertisements. Exhibition Birds, Foundation Flocks



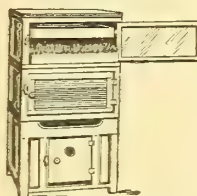
Non-Busto Elastic Egg Box
The suspension-bridge egg carrier—an air cushion for each egg.



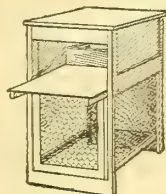
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For show birds. No crumpled feathers—no damaged combs.



Baby Chick Carrier
No gluing, no tying—all one piece. Shipped knocked down.



Oat Sprouter
Outer walls of wood lined with asbestos and galvanized tin.



Never Fail Trap Nest
After laying, hen drops down in yard till released.



Colony Chick House
The simplest, most efficient and economical on the market.



Larger Outdoor Brooder
Perfectly ventilated—never too cold or too warm.



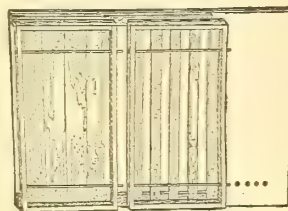
Efficiency Koop
No hammer—no nails.

To All Poultrymen—

There Isn't a Poultryman in America That Can't Improve His Business With This Apparatus



Andrews' Efficiency Koop



Compact—shipped knocked down

No hammer. No nails



I'VE used every piece of it on my own farm. I've saved four or five times the cost of each in less than a year. You can do the same. "Ask the Judges."

Take koops, for instance. A heavy, wooden crate costs a bunch of time and money to build. It is heavy and express charges are big. It can be used but once or twice. Then all your time, labor and money are thrown away.

While with my Efficiency Koops and Koop de Luxe you can be ready to ship instantly. They come knocked down. Can be put together without nails. They're light—save money in express charges. They can be used over and over again and are just as good as new.

How about that for saving? And here's another big point: Efficiency Koops cost less than wooden crates. If you didn't use them but once, they'd pay big.

Koop de Luxe				Efficiency Koop			
Pet size	-	\$5.00	per half doz.	Pet Size	-	\$2.50	per half doz.
Single Size	6.00	"	"	Single Koop	3.00	"	"
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Shipped only in half-dozen lots.

Shipped only in half-dozen lots.

My **Medicine Cabinet** contains every remedy needed to keep poultry in perfect condition. There's **Obaco**, the "Miracle Medicine" that cures Roup, Gapes, Canker, Sorehead and White Diarrhea by inoculation. **Deathmite**, the wonderful cure for lice and mites; and other sure remedies that every poultryman needs.



Official Mating Line

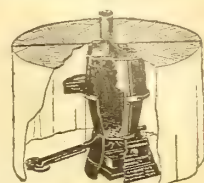
I manufacture a complete line of galvanized iron ware—the ware that wears. Also Oat Sprouters and Poultry Houses and almost every known article needed by poultrymen. The O. B. Andrews Company are sole distributors of the Dandy Coal-Burning Colony Brooder—absolutely the most efficient brooder made. "Ask the Judges."

Look at the interesting apparatus around the border. Every bit of it and lots more are described in the "Poultryman's Text Book"—a regular mint of knowledge that you can turn into ready coin. Send for it—absolutely free.

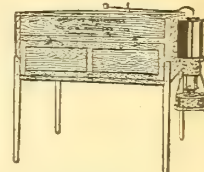


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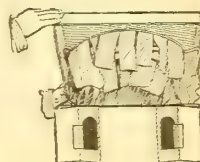
"The World's Largest Poultry Specialty Manufacturers." All of our articles are for sale by dealers throughout the country.



Dandy Coal-Burning Colony Brooder
Perfectly ventilated—all excess heat removed.



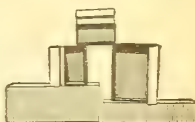
Andrews' Masterpiece Incubator
Just like nature—moisture perfect.



Fireless Corrugated Brooder
Fresh air, but no drafts.



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Clean, fresh water always.



Parcel Post Butter Boxes
Strong but light. All sizes, lowest prices.



Egg Trays
Can be stacked as shown.



Semi-Outdoor Brooder
Next to nature. Handles 50 to 100 chicks.



Wooden Shipping Koop
For export shipping.

E. B. Thompson's Imperial Ringlet Barred Plymouth Rocks



Win at the Imperial Show
of all the World

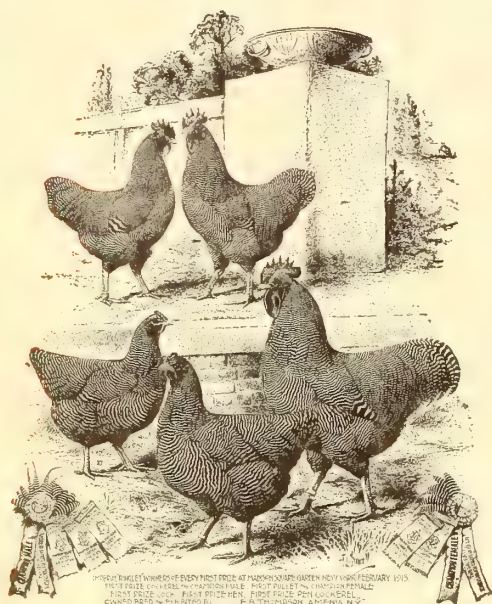
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New York



January, 1916 --Competition Open to the World

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Cocks	1st, 2nd, 3rd, 4th and 5th
Cockerels	1st, 2nd, 3rd, 4th and 5th
Pullets	1st, 2nd, 3rd, 4th and 5th
Exhibition Pens,	1st, 2nd, 3rd, 4th and 5th



Sweepstakes Champion Male and Female. Shape and Color Specials—Male and Female. All Silver Cups and cash Specials. More First, Regular and Special Prizes than any exhibitor of any breed. This is the Capstone to their unexampled record at New York for 28 years.

My exhibit of 100 birds of supreme quality is an achievement unknown in the entries of Poultry Shows—unequaled in the annals of Barred Rock history.

Grand Winning Show Birds

The finest that all America has ever produced—are now on my farm ready to win Blue Ribbons and Silver Cups for you in any competition in the World in Cocks, Cockerels, Hens, Pullets and Pens. They are elegant in size and shape, fine heads, rich, clear blue color, with that sharp, clean cut, straight, narrow "Ringlet" Barring to the skin that wins under all Judges. The prices are reasonable.

Winners of every first prize offered at Madison Square Garden, New York, February, 1915—first cock, first cockerel, first pullet, first hen and first pen cockerel.

Prizes and Silver Cups have been won by my customers on Imperial "Ringlets" in more than a thousand show rooms throughout the civilized World—You can win the same laurels. I will sell you grand exhibition birds for any show, and breeders of this richest First Prize New York blood in elegant single birds, trios and pens, mated to produce prize winners.

If you want the best in Barred Rocks you must have my Imperial "Ringlets."
My customers are my first thought and nothing is too good for them.

Elegant Catalog Upon Request.

EGGS from the finest exhibition matings in the World, \$10.00 per setting; four settings, \$35.00; one hundred eggs, \$60.00—One-half these prices until December 1st.

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VOL. 47, NO. 12

DECEMBER, 1916

PRICE 10 CTS

U. S. Department of Agriculture

AMERICAN POULTRY JOURNAL



Published Monthly by the American Poultry Journal Publishing Company, 542 So. Dearborn St., Chicago, Illinois. For Subscription Rates See Editorial Page.

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THE biggest-paying, best-producing hens are always natural layers. Forcing fowls to lay by feeding heavy, rich foods may tell on the health of the birds and it often injures their breeding quality. Forced eggs as a rule are not fertile.

Red Comb Poultry Feeds Do Not Force the Eggs

Red Comb Meat Mash, the great egg producer, is made of oat-meal, oil-meal, corn-meal, meat scrap, wheat bran, wheat middlings, alfalfa-meal, and *not over 5% shell and 1% charcoal*. These ingredients, the best earth can produce, are mixed scientifically by experts. They form a correctly balanced ration that will give growing health to your flock. Red Comb Meat Mash produces natural layers; it helps the hen by giving it in correct proportions egg-making food.

Unbalanced Rations Produce Fat

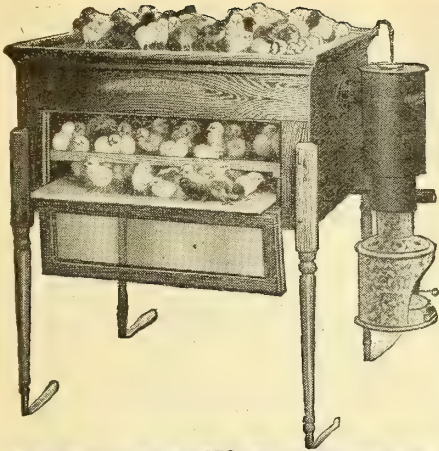
In building good egg-laying strains in your flock, poultry experts will tell you the value of the *correctly balanced poultry feed*. *Unbal-*

anced rations produce fat. Fat birds are not good producers.

See your Feed Dealer today. Ask him to show you the Red Comb line of poultry feeds. Red Comb, the big, universal brand, is used and recommended by successful poultry raisers and authorities the country over. Start feeding Red Comb today for profits. It makes heavy layers in nature's own way, because it contains egg-making ingredients, balanced correctly, that mean health to the flock and fertile eggs. Ask your dealer today. Write for valuable Poultry Book, written by six of America's leading poultry experts. *Free* to poultry raisers.

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“Means Health”
Red Comb



Hatch Your Chicks "Nature's Way"

The hen sitting on her nest hatching eggs in "Nature's way" supplies a certain amount of humidity with her warm body and distributes a uniformity of heat over the nest with her feathers.

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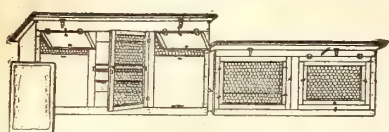
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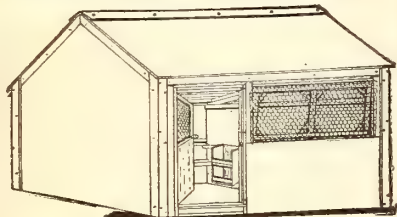


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TABLE OF CONTENTS

	PAGE
W. R. GRAVES—PIONEER POULTRYMAN.....	1287
QUALITY POULTRY REQUIRES GOOD CARE.....	C. H. Latham 1288
GIRLS' AND BOYS' POULTRY CLUBS EXHIBIT.....	1290
WHY THE POPULARITY OF THE ANCONA?.....	T. H. Holmes 1292
THE BEAUTIFUL AND EFFICIENT ANCONA.....	Leroy E. Hepp 1293
EGG PRICES WILL BE REGULATED BY WEIGHT.....	E. J. Stoddard 1295
EDITORIAL.....	1296
Season's Greetings—Rats!—Better Business—Golden Rule in Business—Leg Bands—Big Show Season— A "Breeder" President—Mineral Foods—Winners in Ancona Contest.	
DR. WOODS' NOTES AND COMMENT.....	1301
POULTRY IN BRAZIL.....	1310
HORTICULTURE FOR POULTRY KEEPERS.....	Thos. F. Rigg 1311
READERS' EXPERIENCE DEPARTMENT.....	1316
RECENT INVENTIONS FOR POULTRYMEN.....	Lester L. Sargent 1321
MONTHLY PRIZE CONTEST DEPARTMENT.....	1324
HOW TO MAKE POULTRY RAISING PROFITABLE.....	E. S. Aldrich 1328
QUESTIONS AND ANSWERS.....	1332
OUT OF THE EAST.....	P. K. White 1342
SEEN AND HEARD IN THE MID-WEST.....	Shepard Strong 1344
ASSOCIATIONS AND SHOWS.....	1346
WINNINGS OF AMERICAN POULTRY JOURNAL ADVERTISERS.....	1351
SHOW DATES.....	1353
HOME AND THE TABLE.....	Helen T. Woods 1361
EGGS A FOOD PRODUCT TO BE SOLD BY WEIGHT.....	Dean Harr 1366
PRACTICAL ADVICE ON POULTRY BREEDING.....	Harry M. Lamon 1369
HAPPENINGS OF INTEREST IN THE POULTRY WORLD.....	1372
IRISH POTATOES FOR POULTRY FEEDING.....	Maurice H. Decker 1373
BREEDING WHITE LEGHORNS FOR EXHIBITION.....	R. R. Myers 1378
WHY I BREED BLACK LANGSHANS.....	De Witt T. Free 1380
WHY I BREED S. C. BLACK MINORCAS.....	Charles W. Lewis 1381

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INDEX TO GUARANTEED ADVERTISERS

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Abbott, O. M., Whiteland, Ind.1375
Aldrich Poultry Farm, Columbus, Ohio.1285
Allen Co., S. L., Philadelphia, Pa.1312
Almendinger, A. F., Buffalo, N. Y.1341
Aluminum Marker Works, Pennsylvania.1350
Am. Aluminum Mfg. Co., Lemont, Ill.1361
American Bee Journal, Hamilton, Ill.1372
American Milling Co., Peoria, Ill.1283
Am. Poul. Advocate, Syracuse, N. Y.1341
American Poultry Journal, Chicago, Ill.1391-1341-1352-1360-1362-1381-1382
Am. School of Poultry Husbandry, Mo.1354
Andrews, J. W., Dighton, Mass.1371
Andrews, S. H., Mincola, N. Y.1341
Andrews Co., O. B., Chattanooga, Tenn.1358
Arcady Farm Milling Co., Rondout, Ill.1341
Ardie, Milan C., Momenoe, Ill.1383
Atherton, W. B., Randolph, Mass.1342
Atlas Company, Lincoln, N. J.1348
Automatic Trap Nest Co., Kenosha, Wis.1342

Baker, C. R., Abilene, Kansas.1337
Baich & Brown, Manchester, Conn.1318
Bales, J. S., Springfield, Ill.1341
Ball, W. J., Salem, Ohio.1318
Banks, M. H., Dillsburg, Pa.1341
Barker, Fred W., Westfield, Ind.1357
Barker, M. S., Thornton, Ind.1342
Barrett, Bernice H., Fortville, Ind.1344
Bartling, Chas. G., Springfield, Ill.1333
Bashore, J. H., Ludlow Falls, Ohio.1383
Bawden, John, Ridgetown, Ont., Can.1353
Bayerdorfer, M., Huguenot Pk., N. Y.1356
Beach, Geo. Watson, New York, N. Y.1337
Bean, I. W., So. Braintree, Mass.1318
Belgian Harc, Holmes Park, Mo.1319
Belle City Incubator Co., Racine, Wis.1363
Berberich, Rev. W., Groton, N. Y.1341
Bernard Co., Phillip, Sioux City, Iowa.1350
Besse, C. W., Jefferson, Maine.1357
Beuoy, Geo., Cedar Vale, Kansas.1347
Billings, B. M., Elyria, Ohio.1345
Bird Bros., Meyersdale, Pa.1375
Blanchard's Caf. Meal Fcty., Illinois.1372
Bloese, Aug., Chicago, Ill.1350
Blum, Frank, New Washington, Ohio.1383
Bock, Oscar L., Council Bluffs, Iowa.1357
Boston Show, Boston, Mass.1349
Bourne Mfg. Co., Melrose, Mass.1328
Bradley Bros., Lee, Mass.1390
Brogden, Thos., Rush Lake, Wis.1326
Brown Fence & Wire Co., Cleveland, O.1312
Brown, John L., Anderson, Ind.1327
Bruorton, M. M., Wakefield, Mass.1318
Buckeye Inc. Co., Springfield, O.1330-31
Buell, Mrs. L. R., Lake Geneva, Wis.1350
Byers, C. S., Hazelrigg, Ind.1281

Cadwallader, T., Salem, Ohio.1351
Cairngorm Farm, Nottingham, Ohio.1326
Candee Inc. & Brooder Co., N. Y.1334-35
Carbola Chemical Co., New York, N. Y.1345
Carpenter, W. W., E. Providence, R. I.1356
Carr Bros., Vineland, N. J.1280
Carter's Poultry Farm, Jonesdale, Wis.1350
Carver, A. A., Seville, Ohio.1299
Chicago & Alton R. R., Chicago, Ill.1336
Chiles & Company, Mt. Sterling, Ky.1280
Clark Co., The, Newton, Mass.1356
Cleveland Hatchery, Cleveland, Ohio.1346
Close-To-Nature Co., Colfax, Iowa.1325
Cole, Frank C., Van Wert, Ohio.1336
Collins, W. H., New York, N. Y.1381
Conkey Co., G. E., Cleveland, Ohio.1312
Cook & Sons, Wm., Scotch Plains, N. J.1353
Cooke, Geo., Racine, Wis.1350
Co-Op. Breed. & Hatch. Co., Tiro, O.1311
Corn Products Refin. Co., New York.1379
Correct Hatchery Co., Leesville, Ohio.1358
Cross, Frank, Montague, Mass.1324

Crotser, E. A., Fulton, Mich.1322
Cudahy Packing Co., Chicago, Ill.1361
Curtis, E. G., Atsion, N. J.1383
Curtiss Co., W. R., Ransomville, N. Y.1318
Cycle Hatchery Co., Elmira, N. Y.1382
Cypfers Incubator Co., Buffalo, N. Y.1310-55

Darling & Co., Chicago, Ill.1347
Davis, M. C., Woodstock, Ill.1369
Dawdy & Dawdy, Greenville, Ill.1348
Deege, Grover, Quincy, Ill.1356
Demberger, L. J., Stewartsville, Ind.1304
Des Moines Inc. Co., Des Moines, Ia.1317-74
Deyoe's, Dodgeville, Wis.1318
Dickinson Co., Albert, Chicago, Ill.1354
Doerhoefer, Lewes P., Anchorage, Ky.1346
Dorman, Benj., New York, N. Y.1362
Du Pont de Nemours & Co., Delaware.1372
Duval County Commissioners, Florida.1321

Eakin, F. M., Bucyrus, Ohio.1341
Edwards, A. A., New Wilson, Okla.1383
Elliott Poultry Farm, Mansfield, Ohio.1356
Enslin, T. J., Hackettstown, N. J.1280
Everfresh Egg Farm, Ionia, Mich.1348
Ewing & Romich, Creston, Ohio.1322

Faha, Jr., Frank, Dyersville, Iowa.1352
Farm Journal, Philadelphia, Pa.1322
Faulds, T. A., London, Ont., Can.1369
Felch, I. K., Natick, Mass.1280
Fernbrook Farm, Albany, N. Y.1322
Ferris, P. J., Cuyahoga Falls, Ohio.1341
Fishel & Son, J. C., Hope, Ind.1368
Fishel, U. R., Hope, Ind.1320
Fogg, N. V., Mt. Sterling, Ky.1350
Forest Hill Poultry Farm, Xenia, O.1327
Forge Works, C. A. S., Saranac, Mich.1373
Fouche Mountain Poul. Farm, Ark.1374
Foxhurst Farm, Lime Rock, Conn.1327
Fraser, W. F., East Akron, Ohio.1380
Friesner & Son, J. W., Bremen, Ohio.1395
Funk Egg Farm, Bloomington, Ill.1343

Galloway Co., Wm., Waterloo, Iowa.1312
Gamewell, J. A., Little Silver, N. J.1364
Garbutt, Cora B., Darien, Wis.1376
Garvey, J. W., Thayer, Ill.1344
Gem Mfg. Co., Greenville, Ohio.1348
Gensch, F. M., Omro, Wis.1356
Gensemer Bros., Creston, Ohio.1371
Gerber, G. J., Dalton, Ohio.1350
Gilbert Poul. Farm, Haverhill, Mass.1322
Globe Elevator Co., Buffalo, N. Y.1339
Glory-Anna Poultry Yds., Louisville, Ky.1333
Goddard & Sons, W. H., Muncie, Ind.1369
Gordon, Jessie F., Spring Valley, Minn.1305
Grant, John, Richmond, Ill.1350
Greater Chicago Show, Chicago, Ill.1349
Grossenbacher Mfg. Co., Overland, Mo.1300
Grove Hill Poul. Yds., Waltham, Mass.1344

Halbach, H. W., Waterford, Wis.1301
Hales & Edwards Co., Chicago. In. fr. cover
Harbin, Edmond J., Riverside, Ill.1371
Harnly, Mrs. J. H., Zion City, Ill.1357
Harrison Leghorn Farms, Mich.1336-58-76
Hayward, W. F., Westboro, Mass.1348
Heasley, Dr. L. E., Holland, Mich.1311
Hering, Frank E., South Bend, Ind.1323
Hess & Clark, Ashland, Ohio.1339
Hewes, Theo., Indianapolis, Ind.1347
Hickory Farms, Townsend Harbor, Mass.1356
H. O. Company, Buffalo, N. Y.1379
Hodgson Co., E. F., Boston, Mass.1343
Holterman, W. D., Fort Wayne, Ind.1346
Homaji Farm, Eveleth, Minn.1383
Homestead Camp. Farm, Wayland, Mass.1309
Hooker, Henrietta E., So. Hadley, Mass.1344
Houck Hatch. & Breeding Co., Tiffin, O.1319

Houstonia Poul. Farm, S. Charleston, O.1318
Howison, Chas., Sandwich, Ill.1341
Huber's Reliable Hatchery, Kansas, O.1311
Hughes, R. R., Charleswood, Man., Can.1332
Hummel, S. A., Freeport, Ill.1341
Humphrey & Sons, Joliet, Ill.1366

International Glue Co., Boston, Mass.1350
Ironclad Incubator Co., Racine, Wis.1373

Jacobus, M. R., Ridgefield, N. J.1341
Jensen, Carl J., Waukegan, Ill.1323
Johnson, Frank, Chicago, Ill.1341
Johnson Co., M. M., Clay Center, Neb.1313

Kaup, F. A., Glen Ellyn, Ill.1281
Keefer, C. A., Muskegon, Mich.1341
Keeler, Chas. V., Winamac, Ind.1327
Keipper Cooping Co., Milwaukee, Wis.1318
Keller, Ira C., Prospect, Ohio.1357
Kennedy, J. Fred N., Birch Cliff, Can.1328
Kentucky Litho. Stone Co., Louisville.1339
Kitselman Bros., Muncie, Ind.1373
Klein-Lambert Co., Chicago, Ill.1305
Kromer, C. C., Schoharie, N. Y.1358
Kulp, W. W., Pottstown, Pa.1327

Lange, J. G., Detroit, Mich.1356
Landfear, E. B., Nutley, N. J.1374
Lasater, S. Barton, Paris, Tenn.1327
Latham, C. H., Lancaster, Mass.1359
Lee Co., Geo. H., Omaha, Neb.1333
Lee, Leo A., Chicago, Ill.1369
Leitner, C. H., Elgin, Ill.1300
Lenox Hotel, Boston, Mass.1348
Liberty Stove Co., Philadelphia, Pa.1378
Licene Co., Chicago, Ill.1328
Liceoff Co., Green Bay, Wis.1341
Lingeman, C., St. Louis, Mo.1344
Lo-Glo Elec. Incubator Co., New York.1311
Lone Oak Poultry Yds., Batavia, N. Y.1318
Longfield Poultry Farm, Bluffton, Ind.1371
Lord Farms, The, Methuen, Mass.1319

McConnell, J. V., Garden Grove, Cal.1350
McConnell, W. A., Richmond, Ill.1350
McKibbin, John, Willoughby, Ohio.1311
Madison Sq. Garden Show, New York.1349
Mann Co., F. W., Milford, Mass.1364
Mantle Lamp Co., Chicago, Ill.1366
Marble Cliff Quarries Co., Columbus, O.1356
Martin, Mrs. E. B., Downey, Cal.1353
Martin, John S., Port Dover, Ont., Can.1300
Martz & Son, A. E., Arcadia, Ind.1298
Meadow Lark Farm, Elgin, Ill.1321
Meadow Lawn Poultry Yds., Michigan.1313
Meilicke Calculator Co., Chicago, Ill.1314
Mendenhall Co., B. W., Salt Lake City.1379
Merchants Drug Co., Easton, Md.1372
Merrell, Arthur, Solon Mills, Ill.1369
Mersel, Alex., New York, N. Y.1356
Mich. Poul. Breeders Assn., Owosso, Mich.1347
Minch, Philip J., Cleveland, Ohio.1357
Mirimichi Poul. Farms, Foxboro, Mass.1353
Mittendorf, O. F., Lincoln, Ill.1353
Model Incubator Co., Buffalo, N. Y.1308
Moeller, A. E., Brooklyn, N. Y.1314
Monmouth Farms, Frenau, N. J.1371
Moore, R. H., Nellie, Ohio.1321
Moore & Bowlus, Fremont, Ohio.1354
Moraine Farm, Dayton, Ohio.1378
Morgan, W. L., Burlington, Iowa.1324
Morisite Mfg. Co., Bloomfield, N. J.1360
Morris Farm, Bridgeport, Conn.1343
Morris Poultry Farm, Lebanon, Ohio.1333
Morse's White Leghorn Farm, Michigan.1312
Muller & Co., Franklyn R., Illinois.1322
Myers, C. N., Hanover, Pa.1299
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National Poul. Band Co., Newport, Ky.....1320
Natural Hen Inc. Co., Los Angeles, Cal.....1279
Nelson, Walter F., Bayonne, N. J.....1324
Neusitz Co., W. A., St. Louis, Mo.....1327
New Carlisle Mfg. Co., New Carlisle, O.....1371
Newell & Gordinier, Troy, N. Y.....1336
New England Typewriter Ex., Conn.....1348
Newtown Giant Inc. Corp., Virginia.....1345
Niemann Bros. Mfg. Co., Mt. Olive, Ill.....1357
Nixon, Chas., Washington, N. J.....1348
Norwich Auto Feeder Co., Conn.....1316
Novak Poultry Farm, Racine, Wis.....1318
Nye, C. C., Harriestown, Ill.....1357

Oakes Mfg. Co., Tipton, Ind.....1382
Oculum Company, Salem, Va.....1318
Ohio Marble Co., Piqua, Ohio.....1379
O. K. Company, New York, N. Y.....1304
Olle, P. J., Racine, Wis.....1358
Orchard Farm, Noroton Heights, Conn.....1369
Ossege, J. W., Hatchery, Glandorf, O.....1374
Ovri, Norman, Pelican Rapids, Minn.....1315
Owen Farms, Vineyard Haven, Mass.....1286

Pabst Stock Farm, Oconomowoc, Wis.....1369
Palmer & Son, D. F., Yorkville, Ill.....1348
Pape, Chas. G., Fort Wayne, Ind.....1316
Parke, Davis & Co., Detroit, Mich.....1326
Parks, J. W., Altoona, Pa.....1376
Pasteur Lab. of Am., New York, N. Y.....1356
Payne Bros., Portland, Conn.....1376
Peerless Hatchery, Chicago, Ill.....1348
Pennington, J. S., Plainfield, Ill.....1316
Penn. Poultry Farm, Lancaster, Pa.....1352
Perfec. Port. Poul. House Co., Chicago.....1380
Perfect Poul. Sup. Co., Lynbrook, N. Y.....1380
Perry, Louis H., Clay, N. Y.....1376
Pile, Henry, Freeport, Ill.....1316
Pilling & Son Co., Philadelphia, Pa.....1312
Pinecrest Orchards, Groton, Mass.....1311
Pinehurst Farm, Oberlin, Ohio.....1383
Pine Ridge Farm, Southboro, Mass.....1356
Pittsburgh Poul. Show, Pittsburgh, Pa.....1354
Platt, F. L., Swanton, Ohio.....1298
Plym. Rock Squab Co., Melrose, Mass.....1280
Poorman, John G., Tinley Park, Ill.....1304-05
Pope & Pope, Louisville, Ky.....1360
Potter, M. W., Leeds, Mass.....1319
Potter & Co., Downers Grove, Ill.....1309
Poultry Books.....1280
Poultry Shows.....1349-51-53
Powers, J. H., Chicago, Ill.....1312
Prairie State Inc. Co., Homer, N. Y.....1379
Pratt Co., E. G., New York, N. Y.....1312
Pratt Food Co., Philadelphia, Pa.....1337
Progressive Incubator Co., Racine, Wis.....1337
Purdy, C. S., Stamford, Conn.....1314
Putnam, L., Elmira, N. Y.....1280-1326

Quaker Ots Co., Chicago, Ill.....1326
Queen Incubator Co., Lincoln, Neb.....1329
Quincy Poultry Farms, Quincy, Ill.....1350

Rafferty, P. F., Marlboro, Mass.....1358
Ralston Purina Co., St. Louis, Mo.....1326
Rau & Fry, Indianapolis, Ind.....1342-70
Rawnsley-Shields Poultry Farm, Ohio.....1329
Read, W. E., Maywood, Ill.....1350
Read Poultry Farm, Watervliet, N. Y.....1321
Red Feather Farm, Tiverton 4 Cor., R. I.....1281
Reed, Mrs. Hattie D., Marcellus, N. Y.....1318
Reliable Inc. & Brooder Co., Quincy, Ill.....1379
Reliance Incubator Co., Freeport, Ill.....1326
Riley, H. J., Bryan, Ohio.....1354
Rippley Mfg. Co., Grafton, Ill.....1366
Rockford Poul. Sup. Co., Rockford, Ill.....1336
Rock Ledge Farm, Southboro, Mass.....1379
Rockwood Farm, Norwalk, Ohio.....1328
Rogers, F. D., Elgin, Ill.....1340
Rogers, Mrs. H. C., Oshkosh, Wis.....1309
Rosemount Farms, Franklin, Pa.....1350
Rowe Sanitary Mfg. Co., Detroit, Mich.....1368
Rudy, Geo. H., Mattoon, Ill.....1357
Russia Cement Co., Gloucester, Mass.....1302-03

Sanborn, Geo. N. W., Holden, Mass.....1340
Sanford, Dr. P., Denton, Md.....1324
Sanitary Poul. Yds., Agawam, Mass.....1358
Sargent, Lester L., Washington, D. C.....1340
Savage, P. L., St. Charles, Ill.....1356
Schabell, John, Chicago, Ill.....1328
Schultz, W. F., Cuyahoga Falls, Ohio.....1364
Schwalge-Smith Co., Elmhurst, Ill.....1281
Schwarz, A., Burlingame, Cal.....1332
Sears, Howard O., Garden Prairie, Ill.....1348
Sefton Mfg. Co., Chicago, Ill.....1315
Seward, R. M., Lewistown, Ill.....1344
Sharp, Herb E., Spokane, Wash.....1314
Sheer Co., H. M., Quincy, Ill.....1372
Sheffield Farm, Glendale, Ohio.....1321
Sheppard, H. Cecil, Berea, Ohio.....1279
Shoemaker, C. C., Freeport, Ill.....1376
Shoenhard, G. H., Freeport, Ill.....1371
Simmonds, Chas. A., Camp Point, Ill.....1342
Simplex Brooder Stove Co., Michigan.....1326
Simplex Supply House, Chicago.....1344-52-56
Sixt, C. W., West Park, Ohio.....1322
Smith, Eugene C., Aurora, Ill.....1299
Smith, F. S., Hamilton, Ohio.....1324
Somers, J. O., Bedford, Ohio.....1280
Southern Poul. Sup. Co., Mobile, Ala.....1314
Spencer, John G., Sharpsburg, Pa.....1360
Spiller, A. P., Beverly, Mass.....1314
Sprague, P. H., Maywood, Ill.....1319
Sprecher Bros., Rohrerstown, Pa.....1325
Starks, M. L., Starks, Wis.....1379
Stiarwalt, John, Decatur, Ill.....1348
Stiles, Chas. L., Columbus, Ohio.....1312-56
Stratton Mfg. Co., Erie, Pa.....1362
Struble, Z. D., Bascom, Ohio.....1369
Sturman, Grant, Mt. Carmel, Ill.....1382
Sunlight Poultry Farm, Lynchburg, O.....1320

Sunnyside Poultry Farm, Bristol, Vt.....1316
Sunset Poultry Yds., Olneyville, R. I.....1348
Sunswick Poul. Farm, S. Plainfield, N. J.....1378

Tarbox, A. & E., Yorkville, Ill.....1375
Taylor, Geo., Urbana, Ill.....1378
Taylor Instrument Co., Rochester, N. Y.....1336
Tenacre Poultry Farm, Princeton, N. J.....1332
The 1733 Ranch, Kearney, Neb.....1306-07
Thompson, E. B., Amenia, N. Y.....Bk. cover
Thornwood Poul. Yds. & Hatch., Ind.....1343
Tiffin Poul. Farms & Hatchery, Ohio.....1311
Tilden Poultry Yards, Delavan, Wis.....1371
Tompkins, Harold, Concord, Mass.....1359
Tormohlen, H. V., Portland, Ind.....1379
Trethaway, Arthur, Wilkes-Barre, Pa.....1341

United Brooder Co., Trenton, N. J.....1322
Urban Farms, Buffalo, N. Y.....1341

Van Alstyne, J. F., Castleton, N. Y.....1318

Walker, G. A., Polo, Ill.....1356
Wallace, W. J., Westfield, Mass.....1357
Ward, R. W., Normal, Ill.....1343
Ward, W. H., Nickerson, Kansas.....1322
Warner, The Coopman, Allegan, Mich.....1348
Watson Mfg. Co., Lancaster, Pa.....1340-41

Wellcome, F. O., Yarmouth, Maine.....1350
Wendell Incubator Co., Holly, Mich.....1372
Whitglen Farm, Lancaster, Pa.....1282
White Wyandotte Poultry Yds., Mass.....1341
Wiebke, W. H., Fort Wayne, Ind.....1346
Wilbert & Co., F. C., Gr. Rapids, Mich.....1356
Wilburtha Poultry Farms, New Jersey.....1308
Willow Tree Poultry Farm, Mass.....1324
Wilson Bros., Easton, Pa.....1372
Wisconsin Incubator Co., Racine, Wis.....1358
Witte Engine Works, Kansas City, Mo.....1279
Wolf, Mrs. John, Merrifield, N. Dak.....1350
Wolf-Huber Hatch. Co., Gibsonburg, O.....1375
Woodward, Ralph, Grafton, Mass.....1371
Woolery Farm, Bloomington, Ind.....1298
Wotherspoon, Jas. R., Philadelphia, Pa.....1375
Wyant Bros., Thorntown, Ind.....1343
Wyckoff & Son, C. H., Aurora, N. Y.....1342

X-Ray Incubator Co., Des Moines, Ia.....1332

Yesterlaid Egg Farms Co., Pacific, Mo.....1309
Young, D. W., Monroe, N. Y.....1370
Young Co., E. C., Randolph, Mass.....1280

Zenner Disinfectant Co., Detroit, Mich.....1371

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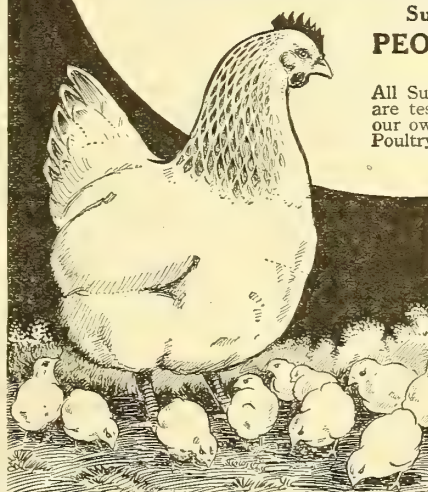
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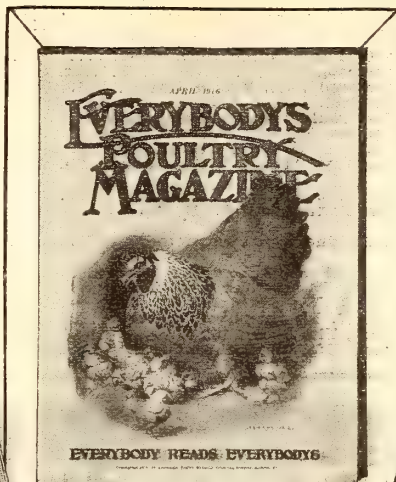
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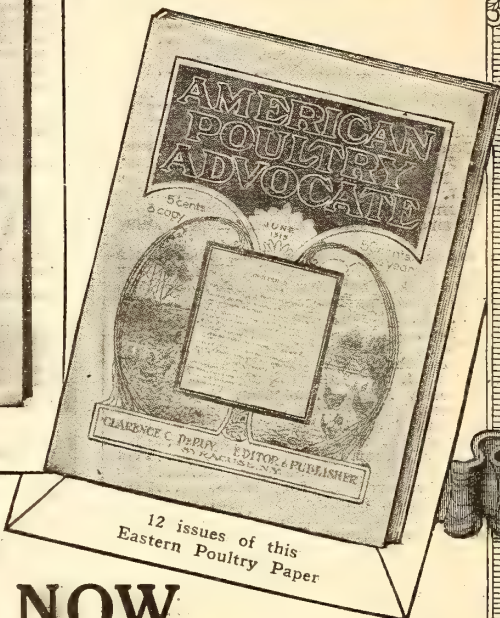
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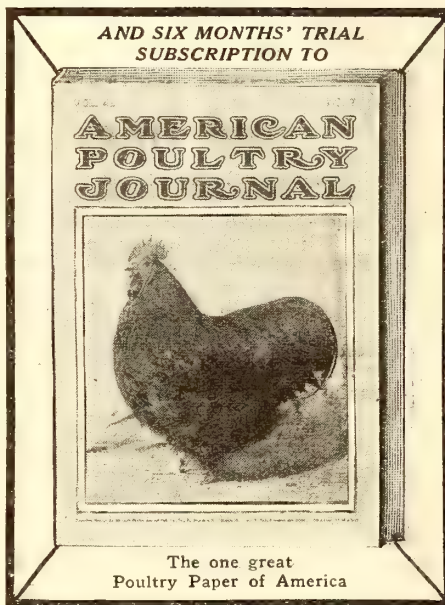
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This win, together with our winnings of over 280 prizes at all America's best shows for the last six years, including Chicago and Madison Square Garden, and their records in the National Laying contests, is ample proof of superiority of the Aldrich White Orpingtons over all others.

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In practically all of the best shows in America where we do not show, and in hundreds of smaller shows in every part of the country, the most coveted prizes in White Orpingtons are being won by our customers. This season our customers have won during September and October over 200 prizes in such shows as New York State Fair, Tennessee State Fair, Illinois State Fair, Allentown, Memphis, Brockton, Dallas, Waco, and the State Fairs of Mississippi, Oklahoma, Montana, Arkansas and North Dakota. In many cases these birds defeated birds purchased from other breeders at much higher prices and guaranteed to win. At the coming winter shows hundreds of Aldrich Strain White Orpingtons shown by our customers will carry off the most coveted prizes.

Increasing Popularity

The large classes of White Orpingtons shown at practically all the shows to date this season is only the forerunner of the best season's business in this most popular breed in years. We can put you in position to win at your show and secure your share of the season's business. Reserve your show birds NOW for the Fall and Winter shows. A small deposit at this time will reserve you a winner and enable you to defeat your competitor.

Our Prices Are Reasonable

Owing to the many orders we are receiving from our hundreds of satisfied customers, thus enabling us to cut down our selling costs, and to the fact that we devote our entire time to looking after our business, thus reducing our labor costs, we are enabled to offer our highest

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We can furnish you winners at the following prices:

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Cocks	\$50.00	Hens	\$ 25.00
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Cocks	\$20.00—\$25.00	Pullets	\$15.00—\$20.00
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First Cock, Chicago Coliseum, 1915

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S. C. R. I. Reds and White Leghorns.*

Have won sweeping victories

for years at Madison Square Garden, New York, (where 393 Owen Farms birds have won the blue.) Palace Show, (New York,) Boston, Chicago, Pittsburgh, Syracuse, Allentown and the other leading shows both North and South.

OWEN FARMS EXHIBITS in the hands of our customers or of ourselves have WON the LEADING HONORS at HUNDREDS of SHOWS all over the country, and have raised the standard of these shows. Shows that do not include Owen Farms birds are not plentiful but, when found, are considered incomplete. You can help increase the prestige of your show by adding Owen Farms quality to your exhibit and swell your own winnings by calling to your aid the all powerful backing of Owen Farms.

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I now have in my fitting room cocks, cockerels, hens and pullets ready for shipment at short notice to win anywhere for my customers. Hundreds of breeders all over the country have learned from experience that they can secure here without delay just the bird or birds they need to complete their exhibit. You now know the weak spot in your show string. Why not MAKE YOUR WINNING CERTAIN by adding one or more birds from here?

Owen Farms' readiness has been the important factor in making the grand winnings my birds have made all over the country in Owen Farms exhibits and in the exhibits of Owen Farms customers. Why not secure this all-powerful backing by placing your order here where you will receive full value for your money and a little more?

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The most important thing in a breeding bird is to know what and how good were its ancestors. When you receive Owen Farms birds for foundation blood you do not need to worry about what they will produce. They will be selected and mated for you by Frank H. Davey in Rocks, Wyandottes and Leghorns, and by Maurice F. Delano in Orpingtons and Reds. Our long experience and absolute knowledge of the breeding and ancestry of the birds we mate for you will make your success certain. This service will cost you nothing, as at any given price the birds from here as individuals will be worth a little more than you can procure anywhere else, while their potential breeding value will make them the lowest cost birds you ever purchased. Fine breeding males at \$10.00 each upward, and females at \$5.00 each upward. All ordinary utility birds have been sold.

OWEN FARMS CATALOG will prove a real treat for you if you have not seen it. It is yours for the asking and you should read it carefully before placing your order. It gives the history of the flocks, describes the farms, gives the fair, equitable guarantees on stock and eggs, and innumerable photos of the leading winners in my varieties.

A typical Owen Farms winning was made at the New York State Fair in September when my White Rocks, White Leghorns, Buff and White Orpingtons won 12 out of a possible 20 firsts, 8 seconds, 9 thirds and 9 fourth and fifth prizes. A total of 38 regular awards. The most important of all firsts, first prize pen, was won in each variety. 28 Owen Farms birds won the blue. 8 birds of all other exhibitors combined won the blue.

My S. C. Rhode Island Reds and White Wyandottes

were not shown at Syracuse. Important sales in these varieties made me decide to give my customers the benefit of my best early birds. Later you will realize I am stronger than ever before.

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AMERICAN POULTRY JOURNAL



VOL. XLVII No. 12

DECEMBER, 1916



W. R. GRAVES—PIONEER POULTRYMAN

W. R. GRAVES was born in Palmer, Mass., in 1868 and lived on the home farm until he was 21. When he was a boy of 14 years a neighbor gave him a copy of a poultry book, and the text and illustrations developed in him a pronounced case of "hen fever." That spring a man who had bought a cow of Graves' father gave the boy a dollar to deliver the cow at a place three miles away. His mother advised him to take the dollar and make a start in business. He bought two sittings of Brahma eggs, borrowed two sitters from his mother and hatched out 20 chicks. That was his start with poultry. He has since bred White and Silver Wyandottes, White and Barred Rocks and several varieties of Leghorns. Mr. Graves made his start with White Wyandottes

25 years ago with two sittings of eggs from B. M. Briggs, one of the originators. He liked them so well that he gave up other varieties for the White 'Dottes, and he has been very successful in many large shows. He became a poultry judge in 1903 and has judged at many big shows. In 1906 he married the widow of Harry W. Graves, a noted White Plymouth Rock breeder. Mr. and Mrs. Graves joined flocks and interests in both White Wyandottes and White Plymouth Rocks, and have since bred, shown and sold many blue ribbon winners in both varieties. Their remarkable winnings at the big shows are a matter of record. At the present time he is not actively engaged in breeding poultry, but expects to be in the near future.

Quality Poultry Requires Good Care

The Care of Breeding Stock. Excessive Showing An Injury to a Breeding Bird. *By C. H. Latham, Lancaster, Massachusetts*

IN THESE times of increasing demand for high-class stock in all breeds of poultry, and a strong desire by all breeders and fanciers to improve the quality of their birds we cannot give too much thought and study to this important, perhaps most important matter in breeding—the care of breeding stock.

If we can make progress by selection of breeding birds, we surely can make progress by selecting the conditions under which the bird must live and thrive.

If there are latent qualities of great value in a bird, we should strive to our utmost to bring them out. And to do so we should give the breeding stock every possible chance for growth and development, having their surroundings such that

find the same rule follows. We can set a fine made watch and a dollar nickel clock side by side, and for a time they may keep together, but sooner or later the watch will be keeping good time, and the clock falling behind. We can drop the clock on the floor, kick it about and abuse it a good deal, and it may still keep time after a fashion of its own, but treat the watch in the same way and it would be ruined. Give the watch its proper care and it will run and keep correct time for many years. The high-class, finely-bred bird is much like the watch, and the more ordinary-bred bird like the dollar clock, and it can give fairly good results under abuse and ill care, but can never reach the results that the high-bred bird will give under best of care.

The writer believes that it is right here where many breeders fall down in their breeding, they do not realize the care and attention that highly-bred stock require to give their best results. The birds should have the best of care and attention right from the day the bird is hatched, and as soon as it is possible to select the bird for breeding it should be separated from the stock at large and given all possible chance for increased growth and development.

Six, eight, ten, or twelve birds given a roomy coop, or still better, a section of the breeding house, where there is plenty of room, both indoors and out, shade from hot sunshine, and protection from winds and wet weather, will thrive far better than they would if left runnings in a large flock in crowded quarters. Then let these birds have the same roomy quarters till the breeding season opens, won't they be in far stronger breeding condition than they would have been if crowded in with a lot of other birds? Where finely bred birds are kept under poor conditions it is about as hard to get the good qualities to show in their offspring as it would be to extract



they are contented, comfortable, and healthy, and making the best possible growth, so as to keep in prime vigor at all times.

A bird that is not receiving what it needs and craves in the food it gets, and its surroundings ill-adapted to its needs and comfort, will not grow and develop into a breeding bird of real value. Such a bird may have been born with breeding qualities to throw very high-class birds, but be made worthless as a breeder, by the improper care and ill environment while being grown.

If the right qualities are in the bird, it is up to the breeder to bring them out.

The care and fitting of show birds given in a previous article, are very largely the same as should be given to the breeding stock, especially when the birds are young and growing. Anything that impedes the growth and development of a growing chick, injures the breeding qualities of the matured bird. High-bred stock of any kind must have good care and attention to have it give the results desired. We could go still further and take inanimate things and we





FIRST AND CHAMPION COCK, FIRST HEN, FIRST SHAPE AND COLOR SPECIAL PANAMA-PACIFIC INTERNATIONAL EXPOSITION, 1915.
DR. C. R. WATSON, MILLER, NEB.

The entire flock of "Quality" Rose and Single Comb Reds, formerly bred by Dr. C. R. Watson, is now owned by The 1733 Ranch, R. 6, Box 2, Kearney, Neb., of which Russell F. Palmer is manager. The above photo shows three of the first prize World's Fair winners now owned by them.

blood from a stone. Still many breeders go on year after year trying to get good results in this way.

Another most important matter should be very carefully considered, if a bird is to be used in the breeding pen, with expectations of best results in production of fine specimens; it should not be all worn out with excessive showing. A breeder of experience would hardly accept as a gift a bird to be used in the breeding pen that had been used for showing at several shows previous to a breeding season. The vital forces of that bird would have been sadly impaired, and its chances of producing fine birds greatly reduced by the wear and tear of the showroom.

There are very few things that take more out of a bird than excessive showing, and a breeder had far better be satisfied with one good show for a bird, and then keep the best there is left in the bird for the breeding pen.

There have been many cases that have come to the writer's notice where choice exhibition birds have been absolutely ruined for breeding by excessive showing, and he has had it happen time after time in his own experience of showing and breeding. To be sure there are birds that will stand excessive showing and still keep strong and vigorous, but they are more the exception than the rule, and it is very doubtful if they breed as good stock as they could have bred if they had not been shown.

It is not the desire of the writer to lessen the number of birds exhibited at our shows, for it is an absolute business necessity to show some of our best birds, but we should not ruin them in doing it.

Whatever one may be breeding to improve its species, be it flowers, vegetables, fruits, or domestic animals and poultry, he cannot get the desired results and at the same time

get everything else the species is capable of producing. Would a breeder of small fruits allow plants of a choice variety of strawberries fruit the season they were planted out, and then let them set as many runners as would grow from them, with the expectation of getting a fine crop of large luscious berries the following season? He would not allow the parent plant to even blossom, and would allow only a limited number of the strongest runners to take root, and would give each new plant plenty of room to grow, or he would cut all runners and allow the parent plant to "stool" and so doing would get a large number of fruit stems to appear the following season. He would receive a large number of very fine berries, but had all the runners been allowed to grow, the quality of the fruit would have been poorer both in flavor and size.

It is exceeding difficult to get quantity and quality all at the same time, and if we would have quality we must work for it, for Nature does not pass out the very high quality specimens in large quantities, it is the more ordinary specimens in all things that there is the largest number of.

The question comes up: what, when and how to feed to get the desired results. There is no set rule for this, one breeder will practice one method with success, and another breeder will get equally as good results in some other way. We must study our own surroundings and conditions, and get the best results possible with what we have to work with. One thing we can be sure of, we must feed liberally if we would get large, strong vigorous birds, we must keep them coming right along from the very first feed to maturity. A young and growing bird can hardly eat too much; that is, if they have proper exercise to take care of it. As the birds mature they should have increased exercise by feeding fine grains in a

litter, hanging up cabbage just so the birds will need to hop up a bit to get at it, and using care that instead of getting too fat that they are in hearty active condition. Never be afraid of good fresh air, give a bird a chance to do so and they will be in the open air nearly all the time, and fresh air should be allowed to get into the sleeping portion of the poultry house. Given a house tight on three sides, and a sound roof over head, we have practically most of what is needed for their comfort, and if the south front of the house is more or less open to the weather it is right for the birds, if they are to be kept in a strong vigorous condition.

Do everything possible to have the breeding stock in best of condition so that when the breeding season open everything is right for strong fertile eggs.

If new blood is needed, or new birds required to fill out the

matings, do not delay till just before the breeding season to get them, buy them as early in the fall or winter as possible, and have them where you can properly fit them. Very few breeders who have surplus breeding stock to sell, can give the birds as good care and attention during the winter months as is to be desired, for they are obliged to keep these surplus birds in larger flocks than one would keep them, if cared for as mentioned earlier in this article. Then having them shipped, sometimes long distances, the birds do not recover from the fatigue of the long journey, so that they are not in as good breeding condition as they would have been in had the birds been shipped earlier. This is a very important thing to keep in mind. There surely is a loss of strength and flesh in shipping a bird a long distance; let this come as early as possible, and far better results will follow in the breeding pen.

Girls' and Boys' Poultry Clubs Exhibit

The National Dairy Show and Eastern States Exposition Held at Springfield, Mass., in October, for the First Time in the History of Girls' and Boys' Poultry Clubs, Afforded a Particularly Fine Exhibition of the Work in Hand and the Ability of the Members to Handle Same. *By A. P. J's Special Representative*

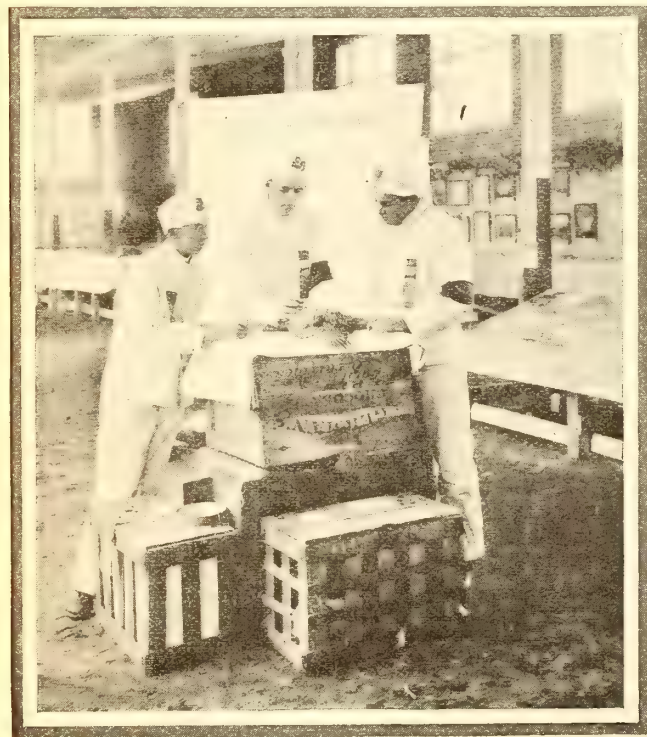
THE GIRLS' AND BOYS' poultry and egg exhibit, together with their demonstrations and judging contest as carried out in connection with the National Dairy Show and the Eastern States Exposition created a vast amount of interest and is destined to bring about an immense amount of good along educational lines. For the first time in the history of club work this combination of exhibits which embraces a representation of members from poultry clubs in eight states with their demonstrations and judging contests, afforded an extensive general idea of the scope of club work and the ability of the members to handle all phases of their project.

The benefits derived from this exhibition of products in which the members so ably displayed their ability to handle their work intelligently, cannot be measured in material terms. Its far reaching effect and inspirational influence on the members as well as the visiting public will unquestionably add an increased incentive to pure bred poultry culture.

The children's poultry exhibit, consisting of 18 varieties.



General view of Poultry Club members' live fowl exhibit, Springfield, Mass. See "Girls' and Boys' Poultry Clubs Exhibit".



Pennsylvania Poultry Demonstration Team giving caponizing demonstrations, Springfield Mass. See "Girls' and Boys' Poultry Clubs Exhibit".

of fowls and trios of chickens, totaled 111 entries of 235 birds exhibited by 86 members. While this exhibit as a whole represented a very creditable effort on the part of members to produce high quality, pure-bred stock, at the same time it is to be hoped that many of the members will grade their flocks more rigidly in the future with a view of attaining a still higher standard and eliminating some of the common defects and disqualifications found on some of the birds shown.

The egg exhibit while not as large as expected consisted of about 50 entries of brown and white shelled eggs produced by the members' fowls. The amount of prize money awarded members in the poultry exhibit totaled \$68.75, and in the egg exhibit \$36.50.

Poultry demonstration teams from each of the following states: Maine, Vermont, Massachusetts, Connecticut, Rhode Island, Pennsylvania, New Jersey, and New York commanded as much attention and interest as any phase of the exhibit. In all there were eleven teams of three members each who gave a thirty-minute demonstration thruout the period of the exhibit in each of the following lines of poultry work: Natural and artificial incubation, operating the trap nest, packing and grading eggs for market and hatching purposes,



Pennsylvania Poultry Judging Team winning first place in poultry judging contest, Springfield, Mass. See "Girls' and Boys' Poultry Clubs Exhibit".

preserving eggs in water glass, caponizing, and killing and dry picking poultry.

The poultry judging contest was very beneficial and of great educational value to the members engaged. In this contest ten teams of three members each took part and had as their object the placing of five out of eight fowls in each of three classes or breeds of poultry, making in all fifteen fowls to be placed out of twenty-four. The American Standard of Perfection was used as a guide in placing the fowls and the members of this contest were required to become acquainted with the American Standard of Perfection and its requirements in making awards. The breeds judged were S. C. White Leghorn pullets, S. C. Rhode Island Red cockerels, and Barred Plymouth Rock pullets. The result of the contest gave the team from Pennsylvania first prize of \$30,

the Vermont team second prize of \$22.50, the Connecticut team third prize of \$15, and the Rhode Island team fourth prize of \$7.50.

Harry M. Lamon of the Animal Husbandry Division, U. S. Department of Agriculture, acted as judge in the placing of the members' poultry and egg exhibits and likewise in the selection and placing of the birds judged by the members of the judging contest. Joseph W. Kinghorne of the Animal Husbandry Division, U. S. Department of Agriculture, supervised and directed the judging teams and likewise poultry demonstration teams from each of the states mentioned.

It is to be hoped that in the future of this event as carried out at Springfield will become an annual affair open to all boys and girls engaged in poultry club work. By this means the opportunity to display their birds and exhibits of eggs, as well as to conduct demonstrations of the various kinds of poultry work, including their ability as judges of pure-bred poultry, would be afforded them. The inspirational effect of exhibits of this character cannot but incite an increased interest in poultry culture and increased efficiency in coming poultry men and women. Those who have worked long and earnestly in the interests of the girls' and boys' poultry clubs should feel greatly encouraged at the success and enthusiasm displayed in the poultry tent at the National Dairy Show and Eastern States Exposition at Springfield.



Poultry Club Members' Egg Exhibit, supplemented with colored bromides from U. S. Department of Agriculture, at Springfield, Mass.

Variety	Sex
Exhibitor	Entry No.
Band No.	Class
Variety	Weight
SCALE OF POINTS	
Disqualifications.—Decidedly crooked beaks, crooked backs, or wry tails.	Perfect Score
Health and vigor.	Score
The bird must be free from disease or from any indication of having been affected with disease. It must also show strong constitution and great vigor as indicated by bright red comb and wattles, and by full, prominent bright eyes, by general alertness, and by black, lustrous plumage. Males should be decidedly masculine. Avoid females showing masculine appearance.	15
Head, 5.	2
Shape of head.	1
Should be short, deep, and broad.	
Face, comb, and wattles.	
Should be bright red. (Dark red approaching black indicates poor condition.) Wattles medium size. Comb small to medium. Fully set on head. Avoid lopped combs in those breeds where they are supposed to be upright.	
Eye.	1
Large, full, bright. (Sunken or dull eye denotes lack of vigor and poor vitality.)	
Beak.	1
Strong, straight, curved.	
Neck.	3
Medium short and stout in proportion to the body.	
Wings.	3
Strong, medium size, neatly folded, and held firmly in place. (Avoid breeding from slipped or twisted winged birds.)	
Body, 60.	5
General shape.—Body should show good length, breadth, and depth, and be well fleshed throughout.	
Breadth of body.	5
Should be broad at shoulders, breadth extending downward well back to hips.	
Depth of body.	5
Should be deep from shoulder to front of keel and extending well back.	
Back.	20
Back of good length, broad throughout, and fairly level on top, from side to side, throughout its entire length and ending in a broad full tail.	
Breast.	30
Deep, broad, full, corresponding with breadth of shoulders. Red or breast bone should be long, straight, and well fleshed.	
Thickness and texture of skin.	2
Skin should be thin and smooth; free from roughness or scalliness. Hairs are undesirable.	
Legs, 10.	6
Medium length and set well apart. (Knock-kneed individuals are undesirable.)	
Thighs and second joints.	6
Short, thick, and heavily fleshed.	
Shanks.	6
Short, strong.	
Toes.	6
Strong, straight, short, well spread.	
TOTAL.	100

Score Card used by the Department of Agriculture for the guidance of members of poultry clubs in judging breeding stock suitable for producing desirable table fowls.

UNITED STATES DEPARTMENT OF AGRICULTURE BUREAU OF ANIMAL INDUSTRY ANIMAL HUSBANDRY DIVISION

A GUIDE

FOR THE

SELECTION OF BREEDING STOCK

Suitable for the Production of Table Fowls

This card is designed as a guide for members of poultry clubs organized under the direction of the Department of Agriculture in selecting breeding stock of a type especially suited for producing desirable table fowls. It will also be found useful by farmers and poultrymen who are producing similar stock. It is arranged in the form of a score card so that it can be used, if desired, for the scoring of such fowls when exhibited in competition.

In applying this scale of points, due consideration must be given to breed characteristics.

Other points being equal, preference must be given to those birds most nearly approaching the standard weights for each breed, as given in the American Standard of Perfection.

Other points being equal, preference should be given to those birds showing greatest indication of standard breeding.

In judging the excellence of the fowls, it will be found helpful, if not actually necessary, to handle them and not depend upon observation alone.

In taking account of stock at the beginning of the year, a great many things should be taken into consideration. If your business shows a profit, where and how was it made? Even a very small leak in another line of the business may offset all profits unless checked in time. Have you made every effort to make friends of your customers? Remember the slogan, "The customer is always in the right," which is based upon the fact that we cannot afford to make enemies, since we can only do business with friends. A square deal with every customer will bring you business, and keep you friends. Oliver Wendell Holmes said, "The great thing in the world is not so much where you stand, but the direction in which you are moving."

Do not shut in your flocks too snugly on these cold, frosty nights. Snugly closed coops and houses are dangerous and liable to promote colds. The sleeping birds need open-front quarters and an ample supply of fresh air. On frosty nights open air is much more comfortable than close, stale, chilly, shut-in air.

Why the Popularity of the Ancona?

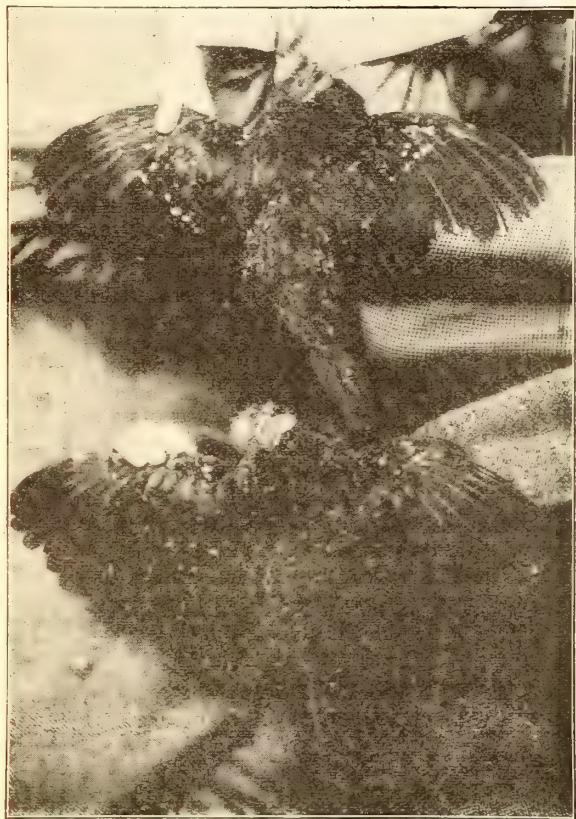
While I Fell in Love with Anconas As Baby Chicks, I Am Equally Delighted with the Eager, Active, Black and White Fledglings and the Graceful, Proud and Self-Reliant Cock and Hen. Thorobred Is Stamped All Over the Ancona. This Article Wins the \$50 Cockerel Offered by H. Cecil Sheppard, Berea, Ohio. *By T. H. Holmes.*

POPULARITY is often times the expression of fickle and hysterical enthusiasm, but in the long run true merit is the arbiter of sound popularity. To the poultry neophyte the great problem is "which breed shall I keep?" After a visit to a great poultry exhibition he is confused and puzzled, for there are so many different breeds that appeal in so many different ways, but it is not until he

heavy winter layers, persistent layers, seldom showing a tendency to sit and maintaining an egg rate that makes it profitable to keep them for three or four years. My flock of forty pullets is now ready to verify for me these statements. The fact that the Ancona lays a large white egg is worthy of mention.

The Ancona, being in the Mediterranean class, is primarily an egg layer and not a meat producer, but they make up in quality what they lack in quantity of meat. My little cockerels were fighting at three weeks, crowing at six and in the pan at nine. Their skin and legs are yellow in spite of their black plumage and their flesh is juicy, tender and tasty. They grow a little larger than Leghorns.

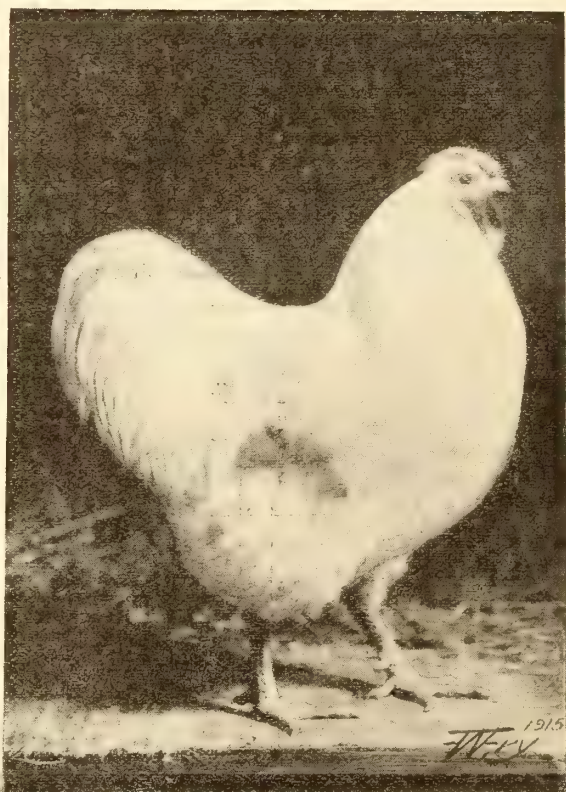
For those who want a non-setting breed, there are many desirable breeds, but the Ancona can claim superiority over all as to efficiency; for they hold the record at Mountain Grove of having produced eggs cheaper than any other breed. (See January, 1915, Report of Missouri Egg Laying Contest.) In these days of high cost of hen feed, it is certainly a great advantage to have hens that do not eat like pigs. Think of it! Three hundred eggs from one hundred pounds of feed. They are good foragers, busy from early morning till actual dark. As to the complaint usually lodged against active light-winged foragers that they are wild, easily scared and prone to fly out of bounds, I would say that it all depends on the keeper. I have found the Anconas very tractable and have had no trouble in confining my flock among gardens in a city lot by means of a six foot fence. As soon as the youngsters left



Wing markings on a pair of Anconas. Owned by H. Cecil Sheppard, Berea, Ohio.

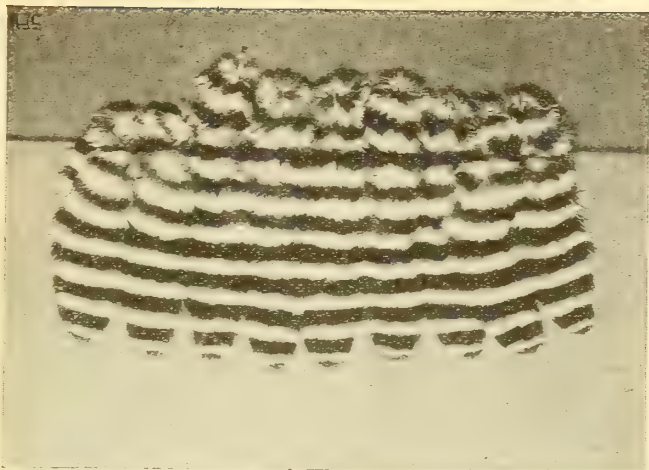
has lived with a breed thruout the vicissitudes of a year that he is really capable of a true appreciation of its merits. As a beginner, I selected for comparison a wide range of varieties: Buff Orpingtons, Barred Rocks, Rhode Island Reds, Black Wyandottes, White Leghorns and Black Minorcas. Into such a galaxy of reliable breeders I introduced the Anconas. Their entrance was due purely to accident, as I had never heard of the breed until a friend gave me a setting of their eggs. From the day my eyes fell upon those lovely little yellow babies with their greenish black caps and coats my satisfaction has increased steadily and consistently until I have discarded all others. Why are Anconas so popular? Because they deliver the goods, are so efficient and economical, and are so beautiful as to invoke involuntary admiration.

Besides being very beautiful, Ancona baby chicks are hardy, vigorous and active, and with quickly developing plumage soon grow out of the danger zone. Out of a hundred chicks, I lost but six. During the third month their development was simply remarkable, and by its close the chicks were transformed into sedate little hens or gay young roosters. The first egg from my 1916 pullets was laid four months and eleven days after that pullet hatched from an egg. Early maturity is surely one feather in the Ancona's cap. Besides laying early, they also lay late, for one day two yearling hens each laid two eggs. Anconas have the reputation of being



"CHIEF WINAMAC FIFTH"
BRED AND OWNED BY
CHAS. V. KEELER, WINAMAC, IND.

First prize White Wyandotte cockerel at Chicago, January, 1916.



Neck feathers from Imperial "Ringlet" first prize pullet and champion female at Madison Square Garden, New York. Observe the straight perfect barring. Bred, owned and exhibited by E. B. Thompson, Amenia, N. Y.

the brooder and were turned loose in the grassy run, I took five minutes each day to train them to be quiet and companionable. Sitting on a box and scattering a little feed I soon had these birds so tame that they would fly upon my lap, arms and head and I would have to brush them aside in order to walk thru the flock. With any animals it is highly important that one learn to move quietly among them and avoid sudden and unexpected motions. I allowed my big Airedale dog to follow me thru the yards and now he dashes back and forth on his untiring search for a rat without causing any commotion beyond a side-stepping to get out of his way. After the hens have been confined in close quarters, my children pick them up and carry them about in their arms.

To a true fancier, eggs and meat are sordid considerations. He finds more pleasure in sitting on a box and glorying in the beauty of his pets than he does in gloating over the eggs or fried broilers. So last, but not least, the Anconas are popular because they are so very beautiful. There is a very practical side to their beauty that had much weight in influencing my choice. The average poultry raiser cannot have grassy runs under orchard trees and so finds his snow white birds very much soiled. The mottled black and white plumage of the Ancona is a very practical work-a-day garment that does not show dirt, like the old-fashioned but enduring pepper and salt pattern of clothes so in vogue with men. The Anconas are beautiful every day of their lives, never passing thru any naked stage, either as youngsters or in the molt. While I fell in love with Anconas as baby chicks, I find myself equally delighted with the eager, active, black and white fledglings and the graceful proud and self-reliant cock and hen. With a beautifully proportioned body, long in the back, deep and wide like a perfect milch cow, with graceful fan tail carried low, with blood red comb curving coquettishly over one eye, with a black gown shining in the sunlight with a sheen of beetle green and daintily speckled with white like a sable robe flecked with snowflakes, the Ancona hen is every inch a beautiful lady. The lordly cock, proud ruler of the flock, has a bearing in keeping with his ancient and worthy heritage. More garishly resplendent than his mates is he with his flaunting serrated comb, his burnished greenish back, his graceful hackle of tapering plumes, each pencil-pointed with almost invisible white tips, his rounded snow-flecked breast and his proudly borne tail of black pinions each splashed at the end with white. Thorobred is stamped all over the Ancona.

A breed of long standing and well fixed characteristics, breeding true and consistently, beautiful to the eye, well behaved in demeanor, productive and efficient to a high degree, the Ancona deserves its present popularity and will continue to command an ever-growing appreciation.

The Beautiful and Efficient Ancona

This Worthy Variety Is Not Well Known in This Part of New York State. They Need Honest Boosting and I Am One to Boost Them. This Article Wins the \$30 Sitting of Eggs Offered by H. Cecil Sheppard, Berea, Ohio. *By Leroy E. Hepp, Syracuse, New York*

I AM a policeman, and in the spring of 1909 one midnight on my beat I overheard two men having a discussion about hens. One was telling a night watchman about a fine flock of poultry his father had. What fine looking birds they were and that they laid big white eggs—so many eggs that he was going to get rid of all other kinds he had.

I had never raised a chicken in my life, but I was interested, and I decided that night that I was going to make a start in the chicken business. The next morning I started on a fifteen mile trolley ride, with a further walk of a mile into the country, where I saw the finest flock of hens that I had ever seen at that time. They called them Single Comb Anconas. I purchased two hens and a cock for six dollars (\$6.00), placed them in a feed bag, brought them home, made a coop and started my chicken experiences.

These two hens laid almost every day during the summer. I purchased hens of other breeds from time to time, but they were slow on laying, so I wanted more Anconas. In the spring of 1910, I changed to Sheppard's R. C. Anconas, and still have that variety.

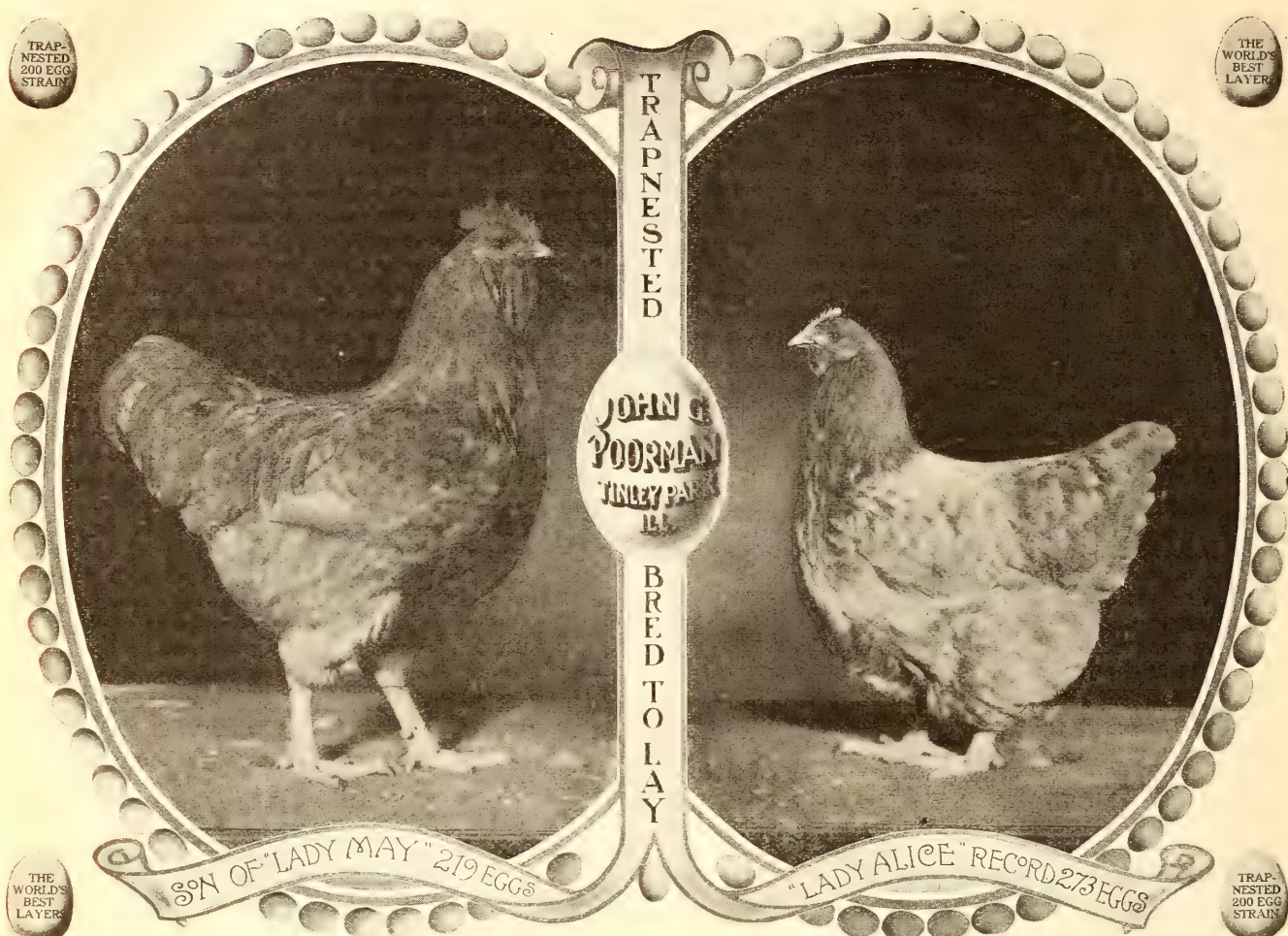
January 1, 1914, I had nineteen R. C. Ancona hens. Five of them were five years old in June, fourteen were four years old in May. I killed some of them the following summer, for I thought they might die of old age. I discovered one was somewhat deformed and I believe she had never laid an egg, and another had a water tumor. But these nineteen birds laid 2,018 eggs, or about 106 eggs a piece. Also two of these hens took first and second prize in a poultry show held in the state armory of this city.

Now take into consideration that my coop is only 6x8 feet

and my yard is about 9x12 feet and the fence is six feet high and that my hens have been in the same yard since 1909 and that every particle of food has to be given to them. They have been fed scratch grain, bran as dry mash, a little beef scrap, grit, lawn clippings and in the winter some cabbage.



Feathers from wingbow of Imperial "Ringlet" 1st prize pullet and champion female at Madison Square Garden, New York, 1916. Bred, owned and exhibited by E. B. Thompson, Amenia, N. Y.



A pair of Poorman's bred-to-lay Buff Orpingtons. Owned by John G. Poorman, Box 100, Tinley Park, Ill.

Not long ago I took ten of their white eggs to the store where I sell them and they weighed more than a dozen store eggs. I sold some, set one hundred and twenty-seven, used one hundred and twenty-three dozen in the house, fed three sitting hens, twenty-four in all, and my feed cost amounted to \$26.74 for the year. I received \$16.67 for eggs sold, so I had the one hundred and twenty-three dozen eggs used in the house for \$10.07. These figures were taken from my record from January 1, 1914, to January 1, 1915.

If any one can show me where this record of Rose Comb Anconas,—that were hatched on a back-lot, brought up and kept in confinement for four or five years,—can be beaten for the production of big, white eggs on the small amount of foodstuff and by a happy, singing family of birds—whether twenty below zero or in scorching hot summer days,—I would like to be informed where the flock is.

I did not keep a record in 1915, but I hatched a pullet that laid her first egg in four months and seventeen days without any special effort in feeding.

January 1, 1916, I had twelve Rose Comb Ancona yearlings. From January 1, 1916, to October 1, 1916, they laid one thousand four hundred and five eggs. There are now thirty-nine birds, old and young, in my 6x8 coop and yard. My feed bill for the last five months averages about \$2.30 per month and feed has increased in price thirty cents per hundred in three months.

I have only lost two matured Anconas from disease in the five years. I do not take any special care of my birds, except to keep the coop and yard clean, as they both are close to the house, being just under the kitchen window. The birds are so tame when I go into the yard they fly all over me, old hens as well as the young birds.

They lay in the winter when eggs are high. I have a friend in the country who bought two hundred and forty birds of another variety. He has been getting one or two eggs a week, while I have been getting from three to six a day from thir-

teen hens—and getting sixty cents a dozen for them. Think of that!

I started to raise poultry in a small way, without any knowledge of the business whatever. I could not tell one breed from another. Those Anconas that I purchased in 1909 were the prettiest hens I had ever seen up to that time. Since then I have studied all kinds of poultry journals, especially the AMERICAN POULTRY JOURNAL, to which I am a regular subscriber. I have attended all the poultry shows possible. I have studied the different breeds and tried at least four of them. But if I only had more room I would have all the Anconas I could raise.

I have had demand for all the pullets I could produce. I turned away this spring an order for four hundred eggs for hatching, beside numerous small orders that I could not fill and I am convinced that my birds are known all over this vicinity by the inquiries I receive.

I wish to say that during eight years with Anconas I have learned that Rose Comb Anconas cannot be beaten, and as long as I raise a chicken I will never be found without Anconas. Experience has taught me that they are the birds for the production of big white eggs, in large numbers, unaffected by extreme cold or hot weather or by close confinement—and for the smallest food cost.

The Ancona baby chicks are handsome little fellows. When just hatched they are a canary color with a black dot on top of the head and a black spot on the back. The mottling of some run down on the face and legs. They develop rapidly from shell to maturity and are wonderfully attractive. They are so handsome that many large breeders are using them in cuts in large advertisements.

The Anconas are not very numerous or as well known in this part of New York state as they should be. They need honest boosting and I am one to boost them. If any do not believe me, come see my birds. You will be made welcome. Yours for Anconas always.

Egg Prices Will Be Regulated by Weight

It Is Not Just to the Producer Nor the Consumer to Sell Eggs by the Dozen Regardless of the Weight. All Other Food Products Conform to This Rule, and Eggs Must in the Near Future. Progressive Poultry Raisers Will Do Well to Breed for Large Eggs. An M. C. Wilson Contest Article. *By E. J. Stoddard*

EVERY line of endeavor has to anticipate the demands of the future if ultimately it reaches its highest aim or reward. At the present time, hens' eggs have two purposes. One is to be eaten and the other is to hatch chickens. It is safe to say that not less than ten eggs are eaten to each one hatched. A small egg may hatch as good a chicken as a large egg, but there is not as much food value in a small egg as in a large one. A large egg is more apt to produce a pullet which will lay large eggs, which is a sufficient reason for using large eggs for hatching purposes.

Now as to the figures to show why large eggs are the ones to produce. We will say that the hen laying small eggs lays 160 per year and the large-egg layer lays 130 eggs per year. This is a difference of thirty eggs, but is it a difference in pounds of eggs? The small eggs, we will say, weigh one and one-eighth ounces each or 11 4/16 lbs. The large eggs weigh say 1 11/16 ounces each, which is 13 11/16 lbs. If we take twelve 1 1/8-ounce eggs as a standard and worth thirty cents, a dozen of 1 11/16-ounce eggs would be worth forty-five cents. If they were sold by weight at twenty-five cents a pound, the 160 eggs would be worth \$2.81, and the large eggs would be worth \$3.40. In other words, taking the small eggs as the standard, the large eggs would bring more money, altho the hen laid thirty eggs less. According to the above figures, eight large eggs are worth as a food value as much as twelve small ones.

Then from a selling standpoint. Today small eggs bring in most instances as much money per dozen as large ones. But how about tomorrow? The United States Government and the State Governments are daily passing laws regulating everything of a commercial nature. Pure food laws, pure fabric laws and honest weight laws, etc., are going into effect daily. How long will it be before eggs will have to be sold by the pound? It will come very soon. The poultryman who now breeds hens for good sized eggs will then be established with a "large egg strain" and will get the full benefit of the law. Therefore the time to begin to figure eggs by the pound is today.

I was talking, September 22, 1916, with an egg buyer for

a large produce firm in Chicago and during our conversation he told me he had just paid 31 1/4 cents per dozen for thirty cases of eggs in Lincoln, Illinois. The party selling the eggs had demanded 32 cents per dozen. The buyer knew that was a little above the market, but also knew the eggs were extra large and clean. He telegraphed his firm at 8:47 for quotations, and not getting a prompt answer, finally, after bargaining a while, gave 31 1/4 cents f. o. b. Lincoln for the eggs.



Golden Penciled Hamburg female.

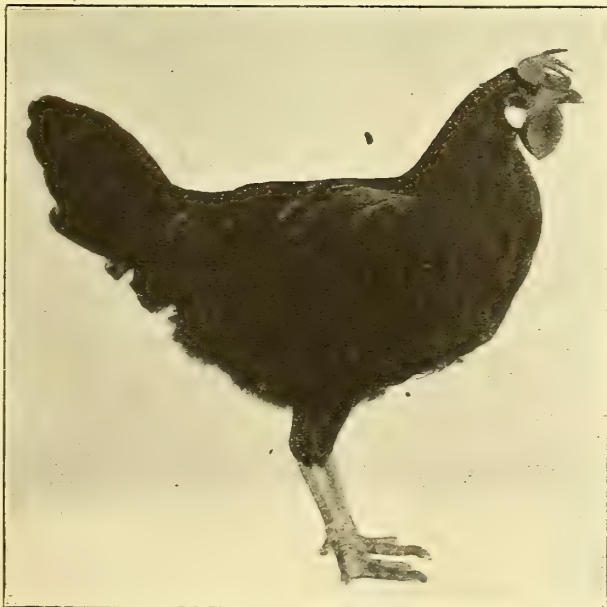
At 1:00 P. M. he received a telegram quoting 30 1/2 cents per dozen f. o. b. Chicago. He naturally expects to be criticised for paying 31 1/4 cents and plans to claim as a defense that they should have answered his telegram at once, that he was able to get immediate shipment, and—this is what applies to this article—"that the eggs were of extra quality, being large, clean, and packed in good cases." I asked him if he would pay a higher price for large eggs than he would small ones, and he said he would pay 1/2 cent per dozen more if he had to, but his firm figured they had to get some extra good eggs at prevailing prices to make up for some of the poorer eggs they bought at the same price. Therefore, some poultryman's noble, large-egg-laying hens are helping some small-egg-laying hens to get market prices for their eggs.

What would a farmer think to be offered a certain price per dozen for his dairy cows, his hogs, his horses or his corn, no matter what the size, condition or shape? Large, even-sized apples or potatoes bring much more than small ones. Would you want to sell your fryers at so much per dozen, no matter what the size?

I firmly believe that the American poultry raiser should begin at once to breed utility stock for large eggs. Our poultry journals, egg laying contest organizations and poultry clubs should naturally lead the way.

If the above reasons are true ones, then the International Egg Laying Contest prizes should be awarded to the hens laying the most pounds of eggs, so that the hens actually doing the best work would get full credit.

Men are just a little inclined to brag if they have half a chance. But let me ask you:—"Did you ever hear a poultryman brag about the nice, small eggs his hens lay?"



Single Comb Black Minorca, winner of first prize at Ohio and Indiana State Fairs, 1916. Bred and owned by John L. Brown, 1515 West 7th St., Anderson, Indiana.

"WE LEAD, OTHERS FOLLOW"

EDITORIAL

American Poultry Journal

Entered as Second-Class Matter August 9, 1886, at the Postoffice at Chicago, Ill., under Act of March 3, 1879

SUBSCRIPTION PRICES.

Single Copies, 10c.
United States, Cuba, Mexico and
United States Possessions (except
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tions require additional postage and there-
fore the slight difference in prices.

Owing to the high quality of the peri-
odical which we are publishing at the price
asked for publications of inferior value, we
have discontinued the practice of entering
yearly subscriptions to American Poultry
Journal, but will enter subscriptions for 3
years (36 issues) for ONE DOLLAR
mailed to any point in the United States,
except Chicago. See above rates for Chi-
cago, Canada and Foreign subscriptions.

TRIAL SUBSCRIPTIONS—In order
to acquaint prospective subscribers with
American Poultry Journal, we will mail
one copy a month for six consecutive
months to any point in the United States,
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not subject to renewal for a period of less
than three years.

If you change your address, give both
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the change.

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Look at the address on your wrapper
upon receipt of the first issue after subscrib-
ing. See that it is absolutely correct
and notify us of any mistake, no matter
how slight. Note the expiration date which
appears thereon, and renew your subscrip-
tion before the expiration date.

**65,000 American Poultry Journals for
December, 1916.**

State of Illinois, County of Cook, ss.:

G. M. Atwell, president of the Atwell
Printing House, Chicago, being duly sworn,
certifies that the American Poultry Journal
has contracted for printing and binding
65,000 copies of the December, 1916, issue.

G. M. ATWELL.

Subscribed and sworn to before me this
18th day of November, 1916.

(SEAL)

ALICE A. SHEHAN

Notary Public.



ONCE MORE we round out the full year
with the happy, prosperous AMERICAN
POULTRY JOURNAL FAMILY and look
forward to another New Year that is
full of hope and promise.

1916 has been a busy, strenuous
year; a year of big events and the
working of great changes in world
conditions. Civilization is still in the

seething melting pot, the mould is being shaped,
tho we cannot see it yet, and no one knows what
the result will be when the final cast is made. We
can only hope that this travail of the whole world
may bring forth better things and better times for
ALL mankind.

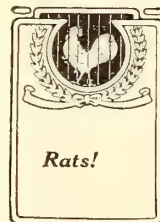
Lasting Peace and the Good Will of real Brother-
hood of all People of all Races of the World is our
best wish for the days to come. The seed has been
sown, the reaping of the whirlwind still continues;
but it was ever darkest before dawn, the light shines
bright beyond dark clouds, and after a storm comes
calm. Surely at this season we can all hope for and
believe in the ultimate coming of—

PEACE ON EARTH AND GOOD WILL TOWARD MEN!

To all our readers and business associ-
ates, to friends everywhere, who have
helped with criticism, counsel, friendly
co-operation, and appreciation, we wish
to extend again our sincere thanks and
all good wishes for the Holiday Season.

Season's Greetings to AMERICAN POUL-
TRY JOURNAL readers everywhere! May
you all have a very Merry Christmas and
a most prosperous and Happy New Year.

And may the New Year bring lasting Peace and
Good Will to ALL Mankind.



IN THESE DAYS of high cost of grains
and feedstuffs, we once more call the
poultryman's attention to rats.

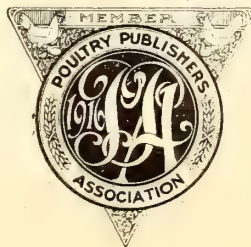
Everywhere rats are a nuisance
and a menace. Swat the rat! Health
boards in our large cities are calling
attention to the very grave danger of
transmission of loathsome diseases
thru rats. Millions of dollars are lost

annually because of rats. Cities are making big ap-
propriations to be spent in getting rid of rats. When
ships tie up in port, rat guards are put on the cables
and rat hunters are employed to kill the rats on
board. Rats are known to spread the bubonic
plague and may be carriers of other diseases.

Expert statisticians estimate that its costs from
50 cents to \$1.00 per year to keep a rat, because of
food they eat or waste and property that they de-
stroy. You can safely figure that on your farm or
poultry plant every rat is costing you big money.
Besides that rats may carry disease to your flocks,
will steal eggs and frequently kill young chickens.

Swat the rat!

On our home farm, because of its loca-
tion in the woods and on the shore of
lake and pond, with some very old build-
ings and many piles of fire wood—which
is our chief fuel—rats are very abundant
and troublesome. We have to keep up a
constant running fight with the pests in
order to keep them from getting the best
of the situation.



We find that a good Airedale dog and a rat-killing cat are very useful, but not enough. The cat goes into inaccessible places where the dog cannot reach and kills his quota of rodents daily. The Airedale is always on the job on his own account and is the chief performer on days when an active rat hunt is held. These hunts come frequently whenever the rodents become unduly troublesome. With a little assistance, like spading the earth under the sills of poultry houses and moving small coops, the Airedale catches and promptly kills unbelievable numbers of rats. But, still that is not enough. The hordes keep coming.

12 and 16-quart galvanized water pails, half full of water and a board tilted from floor to edge of pail, prove excellent rat traps,—the best we have used, and usually make a haul every night. An AMERICAN POULTRY JOURNAL subscriber recommended pouring soft tar into the rat holes, and this is a help. Another good remedy for use in the grain house, barn, and dwelling, is to mix equal parts by measure of plaster of paris and fine corn meal and leave the mixture about the premises in small paper bags. This dry-mash for rats kills off a lot of them. We have not had much luck with serums, virus or patent rat traps,—altho the back-breaker traps, baited with fish, do good work.

Eternal vigilance and constant warfare is necessary to keep down the rat plague. If the neighbors can be induced to join in the fray, the results will be more far reaching and lasting. Stop boarding rats at from 50 cents to \$1.00 per head a year. Get busy and SWAT THE RAT!

patience and work along right lines. Interest in pure-bred poultry is increasing. In spite of heavy selling of hens and chickens, due in part to the high cost of grain, the great army of "back-lot" poultry keepers is gaining new recruits rapidly. Farm flocks have been reduced somewhat in size, but there is a strong tendency toward better poultry and the keeping of pure-breds on farms where mongrels and mixtures were the only poultry kept. It costs no more to feed and care for well-bred stock than for the mongrel sort, and with reasonably good care the pure-bred fowls give better and more satisfactory results. It has been demonstrated that healthy, hardy pure-breds of the popular breeds are just as well able to rough it on the farm as common fowls and that pure breeding does not necessarily mean less constitutional vigor. Exhibition values require special care and attention to develop them in the highest degree, but the utility qualities thrive under good farm flock conditions. With the advent of pure-bred flocks in place of mongrel stock, the tendency is to give more and better attention to the poultry keeping branch of farm work.

We believe that 1917 will see much better business in the sales of breeding stock, hatching eggs and baby chicks. The interest and the money for buying is with the public. The demand can be stimulated and developed by advertising of the right sort. The business is there for breeders to secure if they go after it in the right way. Go to it! When you secure a

prospect, convince him thru truthful argument and plain facts about your favorites. When you land a customer, hold his friendship and his business by giving him honest values and a square deal. Better business is at hand, but it depends mainly on yourself how much you share in it. Good advertising and able salesmanship are necessary. Do business in a business-like way. Don't neglect correspondence. Don't expect customers to urge their money on you and to beg for what you have to sell. We have known customers to do almost that, but if you play the game that way and get the habit, someone else will get the bigger share of the business. 1917 holds good business opportunities for you. Don't waste them.

When Christmas Comes

BY HELEN T. WOODS

*We chant of bursting buds in Spring,
Of welcome sound when bird notes ring,
Of stretching hills' returning green,
Of sprouting grain in earth unseen.*

*We sing of Summer's glowing sun,
Of twilights long when work is done,
Of flower fragrance and waving grain,
Of leafy shade and Summer rain.*

*We praise the Autumn in dress of gold
And shades of scarlet yet untold;
We view with awe her changing hills,
Her bursting storehouse Nature fills;*

*But as Winter comes and Christmas near
Now every heart grows warm with cheer,
Love lightens sorrow, stills alarms,
Upholding in encircling arms*

*All human woes whose total sums
Fade from the view when Christmas comes!*

*O Christmas, that has come again,
To kindle warmth in hearts of men,
Bless well this season of Good Cheer
That it may mark an immortal year,*

*By making strife and war to cease
And spreading thru the world thy Peace—
When Christmas comes!*



CORRESPONDENCE FROM all over the country indicates prosperity and better business; there is work for everyone who will work; the people have money and they are spending it. Keeping money busy circulating is good for business and good for us all. True it is that high prices prevail, but we should not forget that low

prices and hard times go hand in hand. Over-high prices are bound to be adjusted, if we only have

Golden Rule in Business.

AT A meeting of the Boston Retail Credit Men's Association held in Thorndike Hotel, Boston, Mass., November 15, E. P. Tuttle, a prominent shoe manufacturer, declared that the moral standards of business today are far superior to those practised 30 years ago. "A more Christian age has arrived," he said, and the motto of successful business men has become "live and let live." Continuing his remarks, the speaker said:

"Competitors are no longer looked upon as enemies and it is no longer smart to sell a customer something he does not want or need.

"The golden rule is more in evidence in business today than ever before. The downfall of a competitor is no longer hailed with glee. Rather a helping hand is given him and we are playing the game with clean hands and heart. This change in business standards has been accomplished thru crystalization of public demands."

Leg Bands.

CAN you positively identify the individual members of your flocks? Do you know the ages of the different birds? Or do you just guess and let it go at that?

If you have only a small flock and are often with your birds, you may be able to know each of them individually; but the chances are that you don't. Modern leg bands and well kept records of the numbers and colors make positive identification easy.

For instant identification as to age—or for some other special purpose—the colored celluloid spiral bands are particularly desirable. You can identify the birds at a glance by simply noting color of band and you know them as far as you can distinguish colors. These bands come in eight or more colors. For illustration of instant age identification let us take five colors: red, blue, white, yellow and black. For example, we will say that your 1913 pullets were given a red band; 1914, blue; 1915, white; 1916, yellow, and 1917 will have black. When the "hen man" comes around and you are thinning out the

TO OUR READERS.

Our subscribers are our friends and we use every effort to protect them in every way. We believe that every advertisement in this issue is signed by trustworthy people, and to prove our faith we will make good to our subscribers any loss sustained by virtue of their having purchased fowls or goods from one of our display advertisers.

All we ask is, that in ordering the fowls or goods, you mention to the advertiser that you saw the ad in American Poultry Journal; also that the purchase be made during the month or months in which the ad is inserted, and in case of loss notify us of the fraudulent misrepresentation of the advertiser, giving us full particulars as soon as it occurs. In all cases in writing to advertisers say, "I saw your ad in American Poultry Journal."

flock, or when you kill a bird for table use or cull for market shipment, you can tell age at a glance by color of the band. Or for purposes of special identification of chickens or fowls, a colored band in addition to the numbered band makes the flock or mating identification easy.

The aluminum bands with large numbers are very convenient for identification of individual members of the flock for any purpose. They are inexpensive and easy to use. Leg bands eliminate all guess work in identification if you keep a record.

The modern combination bands made of aluminum and colored celluloid, with large, clear numbers, are best for all pedigree work with breeding birds and when trap-nesting layers. They cost a little more than the other kinds and are worth more. The colors are bright and the numbers large enough to be read instantly. Anyone who uses trap-nests can appreciate their value for quick identification and in labor saving. The modern sorts are well made, easy to apply, and won't lose off.

Smaller bands are made for chicks of all ages to help in pedigree work and to amplify the information as to parentage as indicated by punch marks in webs of chick's feet.

You need to know your birds. To know them as individuals and to be sure of identification, you need modern dependable leg bands.

Big Show Season.

THIS is the season of big poultry shows. Be sure to attend the big poultry show in your nearest large city.

The opportunity afforded to compare the various Standard breeds and varieties is well worth your while. You may find that the prevailing fashion that wins the ribbons is not just what you thought it was by reading Standard requirements. You will have a chance to see and compare the birds themselves in the various classes and to note what the experienced judges considered winning quality.

If you breed poultry, you need to visit the show to compare your work with what other breeders are doing and to get a line on what is necessary to win. If you are about to engage in poultry keeping, attending the show will help you in your selection of a variety.

At the show you can get in touch with other breeders and discuss their favorites with them. There is much to see and much to learn. You cannot afford to stay at home and you cannot afford to miss the big poultry show of your section, if you are at all interested in poultry.

Attend the big shows and study the exhibits.

A "Breeder" President.

IN looking over our exchanges we note that some folks are clamoring for a "breeder" president for the American Poultry Association next term. The association had a prominent breeder as president before Editor and Publisher Richards took the presidential chair.

While we would not and do not approve of the A. P. A. being under control of any one editor, or little editorial group, and, while we believe that the poultry breeders of the country should run their own association, we are not in sympathy with all this calamity howling about editor-presidents or editors running for office, if they are willing to serve the association, have the time, and are qualified to do so. From early in its history right down to date the A. P. A. has put a good deal of hard work up to editors and poultry writers and has been faithfully served in the great majority of cases.

At the present time most of the objection to editor-officers comes from those who oppose Arthur A. Peters, of Denver, Colorado, who is candidate for next president of the association. In the four successive terms in which Mr. Peters has served the A. P. A. as vice-president, he has been the hardest worked presiding officer. He has always been a credit to the association and those who attend the annual conventions

Platt's Wonderful
RED SUSSEX

The largest and oldest exclusive breeder of this variety in America. Booklet with full history and description of these great fowls mailed free. Mention American Poultry Journal.

F. L. PLATT - - SWANTON, OHIO

AMERICAN WHITE ORPINGTONS

WILL WIN FIRST PRIZE
FOR YOU ANYWHERE



BLOOMINGTON
INDIANA
USA

We can furnish you a Cock, Hen, Cockerel, Pullet or Pen from the "best line of males in the country." Every individual an American line-bred bird of eight years' standing. Pure white color, massive type and heavy laying ability are so intensely bred into these birds that they are acknowledged supreme by all. The most reliable reproducers of any strain. Ask any judge or breeder that knows, "Who has the best White Orpingtons?" "Woolery Farm, of course!" These birds are American line-bred and they win and lay. No breeder today can give you more in real value, nor will go further to give you the best satisfactory service.

We are the originators of the American bred White Orpington, and want all good breeders to know and appreciate their value. Get our winnings at the National Club shows, Chicago Coliseum, Madison Square, Hagerstown, Cincinnati, Indianapolis, and remember we bred every one of these winners, his sires and grand-sires. If you breed strictly Woolery Farm's American-bred strain you breed the best, and if you can advertise them you will find a ready market for all your surplus stock and eggs. Write us your requirements today; we can fill them promptly. New Catalog-Mating List ready January 1st. Register your name for one now.

WOOLERY FARM, Ralph Woolery, Prop., Box A, Bloomington, Ind.



Buff Orpingtons

100 FASHION PLATE cockerels, 25 cocks, plenty of hens and pullets, all in good finish for early shipment. Send for Fashion Plate Book—Free.

A. E. MARTZ, BUFF ORPINGTON SPECIALIST
AND JUDGE

Box A, ARCADIA, IND.

know that he presides with dignity, ability and fairness to all. He is well fitted through long experience to be the next president of the A. P. A. and he certainly merits election by a large majority vote to show the association's appreciation of his long, able and faithful service. Arthur A. Peters is not only deserving of the presidency—he has earned it and we should not deny him his reward.

Some of his opponents object to Mr. Peters because he is a "poultry editor." Well, he has only entered the editorial field within a comparatively short time. He has hardly had time to get acclimated as an editor and to begin to "feel his editorial oats." He is welcome in the editorial field and no one fears that he will abuse his privileges or influence.

Before he became an editor, Mr. Peters had long been a fancier-breeder; was a breeder many years before he became a member of the A. P. A.

If the association wants a "breeder-president," Arthur A. Peters will fill the requirements. He has been a breeder of White Plymouth Rocks for more than twenty years. He originated the strain known as Peters' White Rocks that have proved strong and continuous winners at western shows, and such strong judges as Heimlich, Hewes, Pierce, Branch, Hale and others who have judged in the west know the quality of Peters' breeding. He has shown almost wholly in the west because he believes that a poultryman's duty is to patronize his local shows and the neighborhood where his business comes from. Having other business interests his poultry work has been necessarily limited to supplying the demand created through his winnings in these western shows and he has not had the time nor sufficiently large flocks to admit of his competing for honors in the eastern field.

Arthur A. Peters stands for election to the office of president of the A. P. A. on his record for efficiency in action as one of the most active and hard-worked officers the A. P. A. has ever had. If members want a "breeder-president" he is duly qualified by long experience as a fancier, breeder and exhibitor. The fact that he has within a few months become also an editor and publisher, should not be held against him. Even editors who could not be classed as poultry breeders have been known to do good work for the American Poultry Association. Better vote for Peters both on the nomination and the election ballots. Make it a rousing big vote!

Mineral Foods.

DR. CAREY says: "The body is made up of cells. Different kind of cells build up the different tissues and organs of the body. The difference in the cells is largely determined by the kind of inorganic salts which enter into their composition. If we burn the body, or



One of the laying houses on Garnet Grange Poultry Yards, Westfield, Ind.

any tissue of it, we obtain the ashes. These are the inorganic constituents of the body, the salts of iron, magnesia, lime, etc., which build up the tissues. They are the tissue builders, therefore, and both the structure and vitality of the body depend upon their proper quantity and distribution in every cell."

Robinson says: "The mineral elements (ash) in foods, disregarded in calculations of food values, are of great importance in nutrition and more important to poultry than to any other kind of domestic creature. The rate of growth of young poultry is very much more rapid than that of young horses,

cattle, sheep and swine. A chick weighing one and a half ounces when hatched and 27 ounces at ten weeks, has in the ten weeks multiplied its original weight eighteen times. In ducks and geese the rate is even more rapid. In all young poultry adequately supplied with material for making bone, the rate of growth of the skeleton is more rapid than that of the flesh (muscle)."

An egg containing all the elements necessary to make a perfect chick, everything, blood, muscle, bones, nerves, all vital organs, feathers, etc. The laying hen produces many such eggs in a year, 144 eggs, 200 eggs, even more than

Smith's Strain White Leghorns
Most Consistent Winners in America! Can furnish Exhibition Birds that will win for you or Utility Birds to improve egg-laying. Catalog free. Eugene Smith, 317 Galena Blvd., Aurora, Ill.

MYERS Barred Plymouth Rocks Lady Beautiful Strain

Win annually at Madison Square Garden, Philadelphia and Hagerstown.

If you want to raise winners, I can furnish you breeding birds to produce them. Personal attention given to mating pens and trios to produce exhibition females. Mention A. P. J.

C. N. MYERS, Box A, Hanover, Pa.

**CARVER'S
R. I. REDS**

Chicago, Madison Square Garden, Ohio State, Forest City, Allentown, Syracuse. Won over one hundred Blue Ribbons.

**Rhode Island Reds as Red as Grows
Importer from England's Best Sussex**

A. A. CARVER - Specialty Breeder - SEVILLE, OHIO

**CARVER'S
SPECKLED AND RED
SUSSEX**

300 eggs in a year being recorded for unusual specimens.

Eggs must be rich in inorganic salts, the "tissue builders" or "mineral foods." Grains and milled feeds are deficient in these mineral foods. Greens only carry a limited per cent of available minerals. The chick must have mineral foods for its development. The fowl requires mineral foods to maintain body health and vigor and to be able to reproduce. The laying hen must have abundant mineral food to supply material for making egg shell and the rich egg contents. Besides lime, phosphorus and iron are important constituents of the egg. Silica is required for feathers. Many combinations of mineral elements are required in the make-up and maintenance of the body of both

fowl and chick as well as for egg making.

We have to look to bone, shells, crushed rock and other sources for a supply of needed mineral foods. Prepared animal foods are the most dependable source. Fresh fish, scalded and fed bones and all, is a good food rich in protein and in mineral matter. Cut green bone is useful but hard to obtain in good quality and harder to keep. Beef scraps, animal meals, fish scraps and fish meals all, in addition to their protein, contain considerable percentages of mineral food. We are inclined to believe that good fish bone is a very valuable source of mineral food for poultry. Milk is good and contains valuable mineral matter but is also largely water.

Certain it is that mineral food is necessary and must be supplied to poultry of all ages and, besides grit and shell, we will find some sort of prepared animal food decidedly essential.

Winners in Ancona Contest.

IN the October number of AMERICAN POULTRY JOURNAL, H. Cecil Sheppard, Berea, Ohio, offered two prizes for the truth about the breed and telling why they have become so popular. The first prize, a \$50 Sheppard Ancona cockerel, goes to T. H. Holmes, 356 Thatcher Avenue, River Forest, Ill., while the second prize of a \$30 sitting of Mr. Sheppard's Ancona eggs, goes to Leroy E. Hepp, 709 Second North Street, Syracuse, N. Y. Both of the prize winning articles under the titles of "Why the Popularity of the Ancona?" and "The Beautiful and Efficient Ancona," appear in this issue of the AMERICAN POULTRY JOURNAL.

Mr. Sheppard should be congratulated upon the ready response and enthusiasm displayed by the contestants. There were sixty articles submitted, representing all sections of the United States, with a large number of the articles worthy of consideration in awarding the prizes. Ancona breeders should feel especially fortunate in having so goodly a number of enthusiastic boosters for the breed, for while many of the contestants expressed the hope that their efforts might prove worthy one of the prizes, they were more than eager to contribute their words of praise and appreciation for the breed. One contestant jokingly attaches a postscript to his communication, saying, "Tell Mr. Sheppard I prefer a dark cockerel with a small comb and good strong eye color."

Still another waxes poetical in his praise of the Ancona in this wise:

"They consume very little
But scratch for a lot,
And taste extra good
When put in the pot.
Their skin is quite yellow,
Bodies plump as Bologna—
Here's to one, and one only,
The Mottled ANCONA."

Northern-Bred Stock

For Years

Martin's Regal Strain White Wyandottes

have been bred for vigor. Canadian winters are severe and none but rugged birds would lay and breed successfully during the winter months. It is a fact, however, that for fifteen years a large proportion of my chicks are hatched in January and February. These chicks are accustomed to go out into small out-door runs, when they are a week old. Chicks grown under these conditions can stand anything and make most desirable breeding stock, high fertility being the rule.

The following letters illustrate this:

Dear Sir:—Regarding the three cockerels sent me last December, would say that I have sold this season some 40 settings of eggs. No setting reported has given less than 10 chicks and most of them 12 and 14 chicks. Am greatly pleased with the birds, as they are much better than the ones I bought from — last year, and in addition to their vigor they have better shape and are two pounds heavier. Will want more next season.

Yours truly,

H. W. JENKINS.

Dear Sir:—Am very much pleased with cockerel you shipped me. Eggs from his pen are running 85% fertile. Thanking you, I remain,
Yours sincerely,

P. L. DRAPER.

Dear Sir:—I am writing to advise you that the fertility of the pen you sold me is averaging over 80%. Considering the fact that cock's comb was frosted, this is a remarkable record.

Very sincerely yours,

L. S. DARROW.

The show record of my birds is a matter of history. If you wish to win or breed winners I can furnish you the birds to breed them. Reserve your birds now while I have plenty to select from.

5000—Cocks, Hens, Cockerels and Pullets For Sale—5000

Special value pens (male and 4 females), \$25.00, \$35.00 and \$50.00. Fine exhibition cockerels, \$10.00, \$15.00, \$20.00 and \$25.00 each. Dorcas cockerels from record laying females, \$8.00 each and up. Exhibition pullets, \$10.00, \$15.00 and \$20.00 each. Dorcas pullets, \$4.00 and \$5.00 each. Utility cockerels, \$3.00 and \$5.00 each.

FREE Send for twenty-page catalog, giving description of stock I am offering for sale. Send one dime for the Regal White Wyandotte Book, telling all about White Wyandottes.

John S. Martin, Box 51, Port Dover, Ont., Can.



"REGAL QUEEN", FIRST BOSTON HEN, 1913

They Feed Themselves

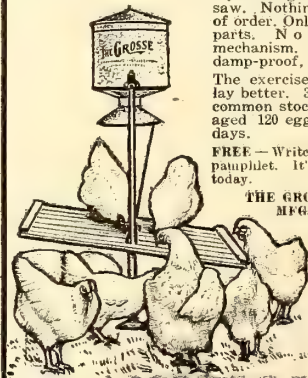
The Grosse Feeder and Exerciser removes all responsibility of feeding flock. You simply fill tank. The chickens do the rest, and you know they are fed correctly—not too much—not too little. No waste. Saves time, money and grain. The Grosse is the only real exerciser. Will accommodate large or small flock.

The neatest, completest, most dependable poultry-feeding device you ever saw. Nothing to get out of order. Only two moving parts. No complicated mechanism. Fool-proof, damp-proof, rat-proof.

The exercise makes hens lay better. 35 Grosse-fed common stock hens averaged 120 eggs each in 365 days.

FREE—Write for illustrated pamphlet. It's free. Write today.

THE GROSSEBACHER MFG. CO., Inc.
Box A
OVERLAND,
MO.



S. C. Buff Leghorns

Chicago, St. Louis, Rochester, N. Y., and Milwaukee
Winners. Send for price to-day.
C. H. LEITNER R. F. D. 4, Box 8 ELGIN, ILL.

Dr. Woods' Notes and Comment

MERRIE CHRISTMAS!

To everyone, on land or sea,
To everyone, where'er they be,
In city, town, or countryside,
Thruout all Nations far and wide,
The Season's Greetings,
Good Will and Peace!
Clasp hands once more,
Bid strife to cease,
And welcome
Merrie Christmas!

* * *

Try a nice fat capon for your Christmas dinner. Duck, goose, turkey, are all good; but a properly grown capon, killed and well dressed—when just ripe—has all other gastronomic delicacies faded to a frazzle—if the cook knows her business, and "we think she do!"

* * *

The interest in fish scrap and fish meals, prepared from wholesome material and comparatively free from fish-oil, as a combined high-protein food and source of valuable mineral salts for poultry feeding, is increasing wonderfully. We have letters from all along the Atlantic and Pacific coasts and some from the Gulf. Fish is a good food for poultry. There is a lot of it going to waste. It costs quite a bit to establish manufacturing and to turn this valuable material into a desirable foodstuff for poultry and stock, one that will keep well and that is practically rid of the strong fishy odor; but if American capital gets interested in that direction we are likely to be able to secure plenty of fish food for poultry before long. It has long been a staple concentrate in the old world, but it takes quite a while to develop resources on this side of the globe.

* * *

Not many "pig potatoes" will be fed to poultry this winter. We sold all our cull potatoes in November at \$1.00 per bushel. C. H. Latham, vacationing in the potato country, down in Maine, wrote us early in November:

"Potatoes up here where they grow them are over \$2.00 per bushel, and a man was around yesterday trying to buy seconds—very small potatoes, so small that most years no one would use them for cooking,—and he wanted to pay 75 cents a bushel for them; he will yet have to pay \$1.00. A Boston dealer has contracted for thirty carloads of potatoes at \$2.10 per bushel to be delivered in January."

* * *

Some prices for Irish spuds, which used to bring 50 cents a bushel. But it should be remembered that it was a poor growing season in the East—cold and wet—and a whole lot of potato growers did not get back more than the seed they planted. Of course, there were some fortunate ones who had a good crop, but it was a short crop and a poor keeping crop with many. Crop reports show plenty of potatoes in the West, but until transportation companies and food distribution comes under Government control we are likely to pay famine prices when the local crops fall short. There is enough food produced and wasted in this country to feed every family in it at reasonable cost, if so large a proportion of the profits did not stick to the fingers of those engaged in distributing foodstuffs and if there was some way to get the food where it is needed at low cost.

Good roads and low-priced automobiles are helping wonderfully in New England in the distribution of farm produce. The farmer can more easily get his products to the city market and at less expense. Also the consumer finds it more easy to reach the farms and buy direct. All along the state highways one finds small booths and tents with attractive displays of farm products by the wayside. Many farms have large bulletin boards giving prices of fruit, vegetables, milk, butter, honey, eggs and poultry and it is surprising what a thriving business is thus being built up along good roads. In a recent trip which took

in over 250 miles of state road we saw many such "farm stores" and we met hundreds of big and little auto-trucks loaded with farm produce going to market. To appreciate what the automobile is doing for the farmers get out on the good roads in the country in the early morning well before sunup. There is something doing on every main highway leading into the big towns and cities. Then, when the day is well advanced, the wayside farms do business with the folks in motor-driven pleasure vehicles. A full 24 hours of travel on Massachusetts state roads between representative cities and producing rural districts, gave us an eye-opener as to the remarkable developments in farm to consumer business in this state. It was well worth losing sleep for. To take it in properly, find out what are the regular market

(Continued on Page 1304)

*Never had so many good ones to sell as now
H. W. Halbach*

GET THE BEST

WHETHER you want a show bird that can win, or breeders that can be depended upon to improve your flock, a prepotent sire or a prolific female, it will pay you to make your purchase where quality has been the watchword from the beginning—from the strain that has produced the most sensational winners in the big shows for years, from the breeder who can and will give you the best values.

In White Plym. Rocks

You Can't Beat Halbach's

The unparalleled win of my birds at the great Coliseum, Chicago Show, December 13-18, 1915, was the final link to the chain of victories that has given them the undisputed championship. 1-2-3 Cock; 1-2-3-5 Hen; 1-2-3-4-5 Pullet; 2-3-4 Cockerel; 1-3 Young Pen; 1-2 Old Pen. ALL CHAMPIONSHIPS.

In the opinion of experts from every section of the country there never has been shown to date a string of White Rocks that so nearly approached the highest ideals of the breed. And every individual was bred on my farm—is the product of years of careful breeding—represents bred-in quality; not accidental quality. It is in the blood. You who buy of me may possess it—and it will be reproduced. I have hundreds of birds of superlative merit, closely related or directly descended from my great champions. Any one of them will breed the quality you seek. Every one of them is vigorous, active, prepotent. Every one of them is worth many times the price I ask for them as individuals for their breeding value alone. My thousands of satisfied patrons the world over are proof that my birds make good—invariably—in show room or breeding yard. And when I say to you that never in all my years of experience have I had so many good ones to sell as now, it means that Halbach's guarantee of satisfaction signifies more to you this year than ever before.



Write Me for Show Birds or Breeders, I'll Please You

Without exception my personal attention is given to every order. Whether you buy the lowest priced bird on my place or an outstanding exhibition specimen, it is my honest endeavor to fill your order just as I should wish to have one of mine filled by you. And every time, if what I send is not satisfactory in full measure, my customer may return it and get his money back. Write me today for what you desire to obtain. Make up your mind to own White Rocks from the real Champion Strain and you can win. Large catalog, 20 cents.

H. W. HALBACH

R. 1, Dept. H

Waterford, Wisconsin

Russia Cement Co.

Takes Fish-Meal Industry In Hand

Big firm at Gloucester, America's Principal Fishing Port, Following Poultry Experts' Recommendations, Agrees to Provide Raisers With Clean, Pure Meal Made Only from Edible Portions of Sweet Fish, Every Ounce Laboratory Tested and Guaranteed.

THE experienced poultry-man who has been watching the bulletins of the government's Bureau of Animal Husbandry, the reports of Experimental Stations, and other authorities, does not need to be told of the value to growing or laying poultry, in choice fish-meal.

But with every increased evidence that a veritable gold-mine of food value lies in a concentrated fish-food, the wise poultryman has felt all the more keenly the need of someone's taking the preparation of a fish-food for poultry as seriously and conscientiously as the preparation of a fish-food for humans.

The name by which fish-food for poultry has been commonly known—"Fish Scraps"—indicates the degree of responsibility and seriousness that has been given it.

"Fish Scraps!"

"Scraps!"

A laying hen puts into her egg the very highest, purest life-giving element in her power. She reproduces herself in her egg. Should she be asked to do it on "scraps"—scraps, sometimes, of fish that the law would not permit being used for human food?

The Russia Cement Company has agreed to take the preparation of fish-food for poultry out of the "scrap" class. Located at Gloucester, America's greatest fishing port, and being in the manufacture of La Page's glue, one of the world's largest handlers of fish by-products, this concern has the opportunity of selecting what it wants from the best of the world's fish.

With a name and reputation known and respected in every civilized land, its guarantee on a product is as good as a government bond. With a laboratory unsurpassed in facilities and ability, not an ounce of any manufactured product can leave the Russia Cement Co.'s plant that might in any way mar the company's reputation.

And all of this is now to be put behind the preparation and marketing of a fish-food for poultry.

Here at last is to be a food for poultry prepared like a food for human beings, a fish-food just as clean and pure and sweet for its purpose as the fish that is packed in Gloucester and sold the country over for use in the home.

So that poultrymen may know and recognize this superior, carefully prepared product, it will be packed only in sealed bags and cartons under the Russia Cement Co.'s private brand name and guarantee. And so that no one need ever be deceived or get this scientifically prepared food confused with the old-style fish-"scrap", the distinctive name of this new fish-food will be the coined term "Chic-Chuk."

Chic-Chuk!

This is one of the most important announcements ever made to the Poultry industry. Fish as food for poultry has been found one of the most effective combinations of Proteins and Mineral foods yet discovered. But a fish-meal, fit to feed to good birds, has been hard to get. Commercial fish scraps have had no fixed standard that a poultry-raiser could depend upon and base a steady feeding formula upon. Too often they have been made from fish-waste and entrails and stock that has been discarded as unfit for human consumption, or from oily fish of so strong an odor that eggs would be tainted. The Russia Cement Co.'s announcement means that this company, one of the biggest handlers of fish by-products in the world, will now supply over its own guarantee a fish-meal as pure and sweet as if prepared for human use—a concentrated poultry food ideal in every respect for making strong healthy chicks, of even plumage and big egg yield.

Chic-Chuk will mean that the food bearing it is not mere fish-"scraps"; not mere scraps of whatever fish-parts come handy; not a product of any fish that you would not yourself eat; not any parts of any fish that would be condemned for human consumption; but Chic-Chuk will mean a fine, ground, sifted meal made only from the edible portions of sweet Cod, Haddock and Pollock—food that any chick will relish and can digest easily, and that will nourish and develop and vitalize and a food that will keep in any climate.

THE COMMON SENSE FOOD

Chic-Chuk, being a highly concentrated essence of the protein and mineral elements a growing or laying bird needs, is not to be fed by itself alone, but as a constituent part of the ration. Every package of Chic-Chuk bears scientifically worked out formulas for its use in dry or moist mash, in combinations with grain mixtures. For mash for adult birds 15% Chic-Chuk is sufficient, and for young chicks proportionately less. Thus, measured by the actual food value obtained, Chic-Chuk is a real food economy.

Not less than 50% Protein, not less than 30% Bone, which includes Lime Carbonate, Lime Phosphate and other Mineral Food, not more than 2% Fat and not more than 2% Salt, is guaranteed for every pound of Chic-Chuk. This, as is shown by the Table on the next page, means that pound for pound, Chic-Chuk furnishes more tissue-building, egg-producing material per dollar of cost than any other poultry food.

To the fancier who is interested in exhibition quality, Chic-Chuk will quickly appeal because of its richness in the mineral content that makes good feather-food. It promotes the feather growth and helps birds thru the moult, while its high protein content is developing the general health and strength that brings out the quality bred in the strain.

To the utility man Chic-Chuk will appeal because it has the ingredients that promote the heavy laying of large, well-meated eggs. Mixed with ground grains and greens it gives the bird the elements needed to encourage, and build up under, heavy laying.

AS A TISSUE BUILDER

Mineral food of the right sort is very necessary for poultry, more so than for other domestic creatures. Chickens grow rapidly and need mineral food for frame and rapidly developing tissues. Fowls breed and reproduce and need much mineral food—more than can be obtained from grains and greens. Eggs contain much mineral matter—not including egg-shell, which is practically pure lime carbonate—besides their protein content, and upon the right proportion of this

mineral food depends the proper development of the embryo chick. And no natural product suitable for food is more rich in available cell-building, tissue-building mineral than fish. Chic-Chuk being made entirely of the flesh and bone of healthy, untainted fish, is thus an evenly balanced combination of the inorganic mineral constituents and proteins.

IMPORTANCE OF UNIFORMITY

It is noticeable that always in the many recommendations of a fish-food for poultry, by eminent authorities, the point of "good quality" is emphasized. In "How to Raise Chicks," by Woods, the author says of fish-food, "When of good quality it makes a good animal food for fowls and chicks, added to mashes."

Note that he begins with "When of good quality."

And in the Bulletin of August, 1916, of the Bureau of Chemistry, U. S. Department of Agriculture, it is reported, "From the feeding experiments it appears that there has not been just cause for the assumption that the feeding of fish meal of good quality imparts a fishy taint to such products as milk, butter, eggs and meat. When the meal is fed in proper quantities, as supplementary with other feeds, apparently no deleterious effects are noticeable in regard to taint or flavor of fish."

Note again the qualification, "the feeding of fish meal of good quality."

In "Productive Poultry Husbandry," (Lewis) the author says, "Properly prepared fish scrap, from which the oil has been entirely removed, is being fed with very good results. . . ."

Note the qualification, "Properly prepared fish scrap."

It is in protecting the poultry raiser on this point that the guarantee and backing of such a concern as the Russia Cement Company and its scientific manufacturing methods, are important on every package or bag of Chic-Chuk.

In Chic-Chuk you know absolutely what you are getting. You know that no oil is left in it. You know that only edible portions of Cod, Haddock and Pollock are used in its manufacture. You know that better quality does not exist. You know that every pound of Chic-Chuk is of the same constituency as every other pound, and your flock will not be getting a change in diet. For the guarantee of the Russia Cement Company ensures it!

This has heretofore been impossible, as every poultry raiser has learned, and as all poultry experts have deplored. In Robinson's "Principles and Practice of Poultry Culture," he says, "A good clean fish scrap should make an excellent poultry food, but too much of what is sold does not answer this description."

Chic-Chuk does answer it. Not only that, but Chic-Chuk always will.

Compare Chic-Chuk with ordinary fish "scrap"—examine it with the eye, feel it with your fingers, smell it, put it under a microscope—and you will find it not only fine and clean and pure, but totally lacking in that strong fish-oil smell that comes from poor stock to start with.

Chic-Chuk, fed according to the proper ratios, absolutely will not taint either eggs or flesh.

HOW TO GET CHIC-CHUK

To insure the above protection to every poultry raiser, the marketing of Chic-Chuk under only its trade-marked name, and only in cartons or bags, sealed at the laboratory, is absolutely necessary.

Chic-Chuk will never be sold in bulk. For the large poultry

Table showing Comparative Value in Useful Nutrients of Beef-Scrap, Ordinary Fish Scrap and Chic-Chuk

Pounds	Food	Protein	Bone	Total Useful Nutrient
100	Meat-Scrap	55 lbs.		55 lbs.
100	Fish-Scrap	44 lbs.	15 lbs.	59 lbs.
100	Chic-Chuk	55 lbs.	30 lbs.	85 lbs.



She gives her very life to us in her eggs and her off-spring. Surely then she is entitled to clean food, nourishing food. Chic-Chuk is simple justice to the American Hen.

raiser it will be packed in 100-pound and 30-pound cambric bags; for the smaller raiser in 10-pound and 5-pound cartons.

Naturally Chic-Chuk cannot be sold at the same price that haphazard fish-scrap can be sold. The careful selection of stock from only Cod, Haddock and Pollock—the non-oily-fleshed fish—makes it cost slightly more than if made from menhaden, sardines, etc., which have oily flesh, but

also makes it infinitely more valuable as a poultry food. The elimination of tainted fish, and all entrails and refuse, makes the cost slightly more, but adds much to its food value. The careful cleaning and grinding and elimination of inedible chunks and scales, the extraction of all oil, the careful inspection and analysis, and the cleanly packing and protection in sealed packages, add slightly to its cost but add many times more to its value to your birds.

An actual test on your flock will prove that Chic-Chuk, with all the safety and feeding superiority it gives, is one of the most economical foods you can feed.

All good poultry and feed dealers will soon have Chic-Chuk, but many have not yet had time to learn of it and stock it. Ask your dealer today and if he not yet stocked Chic-Chuk, order direct at regular prices.

SEND FOR FREE BOOKLET

"Practical Talks on Poultry Feeding" gives many new, startling facts about foods for poultry. It contains

the very latest authoritative information on fish as a food, its value, and how to use it, and tells completely of Chic-Chuk, how it is made and why it is the greatest new help to poultry raisers discovered in the last generation. It will pay anyone interested in poultry to read the book carefully. It is free—simply send the coupon—but send it today. Address

Russia Cement Company

112 Essex Avenue

Gloucester : : Massachusetts

TRIAL COUPON

Russia Cement Company

112 Essex Avenue, Gloucester, Mass.

Send me a free copy of the new booklet, "Practical Talks on Poultry Feeding," telling all about Chic-Chuk.

My dealer is _____

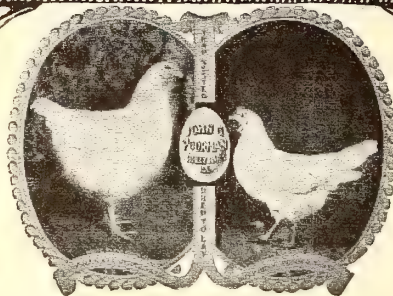
His address _____

My name _____

My address _____

POORMAN'S 200 EGG STRAINS

THE
WORLD'S
BEST
LAYERS



TRAP-
NESTED
200 EGG
STRAIN

LADY ALFARATA
Record 301 Eggs

BUSY BESS
Record 285 Eggs

Stock, Eggs & Baby Chicks

from Profitable Layers is Your Only Guarantee for Success in the Poultry Business

Isn't it a serious matter when eggs are selling at 40c to 50c a dozen and your hens are not laying? Ask the man who has failed. Also ask him if he would recommend the breeder he bought his stock from.

You cannot be too careful in the selection of your foundation stock; the stock from which you will produce your future layers. I breed for eggs, and can supply you with stock that will lay when the egg prices are high.

That Means Your Success

EGGS—I can usually make shipment of eggs promptly upon receipt of your order. I would, however, advise that your order be booked in advance. This will assure delivery when you desire them. Prices, 15c and 30c each.

BABY CHICKS—I am now booking orders for baby chicks for delivery any time, weather conditions permitting. Early orders simplify matters and assure mutual satisfaction. Instruct me to book your order now. Prices, 25c and 50c each.

Laying and Breeding Stock. In all my eight varieties, namely, White and Buff Orpingtons, White and Barred Rocks, Rose and Single Comb Reds, White Wyandottes and S. C. White Leghorns, I can supply Laying and Breeding Stock, young or old, that will produce a future flock of the kind that has in the past given entire satisfaction to over 5,000 customers. I herewith present your opportunity to start right. My free instructive catalog has helped others and will undoubtedly help you. Write for your copy today.

JOHN G. POORMAN, Box 100, Tinley Park, Ill., U. S. A.

(Continued from Page 1301)

days and be guided accordingly in making your observations. Work for good roads. Good roads everywhere mean better times for everybody.

* * *

T. Harris Boughton, M. D., who won the first prize in the M. C. Wilson article contest—we did not know that he is a doctor until his acknowledgement of the prize came to hand—writes:

Wilmette, Ill., Oct. 25, 1916.

Editor American Poultry Journal:—Yesterday I received the pen of R. C. White Leghorns M. C. Wilson offered as first prize in the article contest which I won recently. They are certainly dandy birds. I don't believe that I ever handled nicer stock and look forward to much pleasure in breeding them.—T. Harris Boughton, M. D.

* * *

The North American gives the following interesting summary of results in three leading laying contests just closed:

	North American Eggs	Missouri Eggs	Storrs, Conn. Eggs
Birds entered.....	500	505	1000
Birds per pen.....	5	5	10
High pen score.....	1305	1185	2265
High pen average, per bird.....	261	237	226.5
General average, per bird.....	176.6	164.7	162.5
High individual hen record.....	289	275	286
No. hens laying 200 or more eggs.....	164	106	160
Pens averaging over 200 eggs per bird..	24	13	6

* * *

The number of 200-eggers discovered in these contests is surprisingly large, but hardly more surprising than the evident considerable percentage of poor or very ordinary layers in flocks that have been specially selected to compete in an egg laying competition. It will be noted in the first column of figures that the hens laying 200 eggs or more in a year represent 32.8 per cent of all the birds in the contest. Yet, with nearly one-third of all the hens in the 200-egg, and better, class the general average of all hens entered is 176.6 eggs per hen a year. That is a very good general average for 500 layers, but with 164 birds producing record yields of 200 eggs and better, the other 336 could not have been making any extraordinary showing as producers. In the Missouri flocks the 200-eggers (and over) represented about 21 per cent of the birds entered. The general average for the whole entry was 164.7 eggs per hen. At Storrs the heavy layers, with records of 200 eggs and over, were 16 per cent of all the hens entered and the general average egg yield was 162.5 eggs per hen. Evidently, with layers specially selected for contest work, with small flocks (which are reputed to be easier to keep up to high production than large flocks), with an unusual amount of attention given to care and feeding, there is very pronounced difference in the yields of individuals and it is not easy to coax hens to exceed the speed limit in egg production. We would like to see comparative tables on these contests showing the size, weight and marketable quality of the eggs produced by all the birds entered.

* * *

In looking over the fall catalog of Chiles & Co., Mt. Sterling, Ky., we find the following sarcastic comment on high record layers:

"We again want to say that we have no perpetual motion layers; never had a hen that



"Make-Her-Lay" OAT SPROUTER

Grows the largest amount of Fresh, Sweet, Green, Wholesome Food at lowest cost

Sprouted grain is fed with two purposes in view—economy in feed bill, and production of green feed quickly.

The "Make-Her-Lay" sprouts grain surely and quickly, without souring or becoming musty.

1440 Square Inches of Surface Space

Produces enough green food to feed 200 hens for a full week. Most Convenient, Durable, Knock-Down, Fireless Sprouters made or sold anywhere, at any price. 8 pans made of heavy galvanized iron, each removable, independent of the other, with perforated removable bottoms.

The "Make-Her-Lay" Sprouter is sold with our guarantee of absolute satisfaction or money refunded. Order one now. Most dealers have "Make-Her-Lay" Sprouters in stock or can get them for you. Buy from your dealer or direct from us. Write anyway for complete descriptive printed matter.

THE O. K. COMPANY, 157-A Water Street, New York, N. Y.

THE PRICE

\$4.50

Express prepaid. West of Mississippi R. add 50c more.

Special discount to those who order three or more sprouters.

Write for prices and printed matter.

Improver Strain White Wyandottes

first pullet, second cockerel, third hen. Chicago Coliseum, December, 1915, first hen, first pullet, 1st young pen. Stock now ready for any show. L. J. DEMBERGER, Box 89, STEWARTSVILLE, INDIANA

Made another big win at the Indiana State Fair, Sept., 1916. Winning first and third pen.

laid every week day and twice on Sunday, or that wore oviduct out laying, and had to have surgeon insert a silver tube in lieu of oviduct. Others may have such hens and be able to sell them at \$1.00 each and eggs at \$5.00 per hundred. But we think in all such cases, to use an old expression, 'Doubtful things are blamed uncertain.' When these wonderful Lady Perpetual Motion, Lady Lay Well, Lady Lay on Forever, etc., perpetuate their wonderful laying qualities in their offspring, then eggs will be worth about 1 cent per dozen. Then there will be a return to the fancy or beautiful end of the game."

Personally, we are interested in good, sound, vigorous hens that will lay from 140 to 170 eggs in a year and deliver well-shaped, full-meated eggs that will run from 26 to 32 ounces to the dozen. If she is going to give us a large percentage of eggs that will weigh from 1 ounce to 1½ ounces each, and more or less soft-shelled eggs, we wouldn't have the 200 to 300-egger as a gift. When giving the number of eggs produced, size, weight and quality of eggs should be stated also.

Last season we had two White Plymouth Rocks that laid eggs of unusually fine shape and color. These hens were mated with a male from the same parent flock—we had no individual record of the breeders. We saved and hatched a considerable number of eggs from these two hens. One laid an egg very rich brown in color and very plump and full-rounded at both ends. The other laid a rather longer egg, rich in color but of decidedly different shade. Eggs of both hens ran pretty uniform in weight, going from 30 to 32 ounces to the dozen. Some of their pullets began laying early in November. It is interesting to note that in shape of eggs and color of shells the pullets are delivering eggs that are almost duplicates of those laid by their dams. Hen No. 1 lays a rounded egg of rich reddish brown, weighing 2½ ounces or a trifle more. Her pullets lay eggs of same color and shape, which are running from 2 to 2¼ ounces each. Hen No. 2 lays a rather longer egg with a purple-brown color, which weighs from 2½ to 2¾ ounces. Her pullet—only one laying at present writing—gives an egg of same color and shape, weight 2 ounces for first egg.

Do not, in an effort to keep down feeding expenses, sell male birds off too closely. It is well to have a few extra males of your own strain for use in the breeding pens if anything goes wrong with the ones mated with your flocks. Even at present high prices the cost of one good breeding male will pay the board of a number of cockerels thru the coming winter. We like to use breeding stock that we have bred and grown,—



**THE OLD RELIABLE
LAMBERT'S
DEATH TO LICE**

has been used over 30 years by
Successful Poultrymen
Because
It Insures **Clean Fowls**

Is just the thing for sitters, as it does not harm eggs or chicks. Keep your hens free from lice and they will thrive and be profitable. 100 oz. \$1.00; 48 oz. 50 cts., 15 oz. 25 cts. Large sample of Powder or Head-lice Ointment 10 cts. "Secrets of Success with Poultry" by Dr. J. Lambert for 2c stamp.

THE KLEIN-LAMBERT CO., 601 Traders Bldg., Chicago

POORMAN'S 200 EGG STRAINS

THE
WORLD'S
BEST
LAYERS

Results

TRAP-
NESTED
200 EGG
STRAIN

BURLINGTON, Iowa, March 25, 1916—Dear Sir: I am pleased to report the arrival of the cockerel ordered by me and if he breeds as well as he looks you will have my hearty endorsement to others, as well as more business in the future. Wishing you success, I remain, W. L. M.

INWOOD, Long Island, N. Y., March 25, 1916—Dear Sir: Inclosed find order for 30 S. C. Red eggs. I received 50 White Leghorn chicks from you last year and raised 46 of them, 28 cockerels and 18 pullets. From these 18 pullets I have received from January 1st to March 25th 1,001 eggs. I think I will sell all my other stock and breed from your stock altogether next year. Yours very truly, S. C. W.

GUTTENBURG, Iowa, March 28, 1916—Dear Sir: Please send me your free instructive illustrated catalog, as it might do me a lot of good and I might find what I would want. Yours truly, J. R.

P. S.—A good friend of mine told me to ask you for this catalog because he has your strain in his flock.

LA SALLE, Ill., February 19, 1916—Dear Sir: Please enter my order for 50 Grade "A" White Orpington chicks. Those we received from you last year are in fine shape and laying steadily—we are very much pleased with them. Yours very truly, M. B.

MAYVILLE, Wis., April 7, 1916—Dear Sir: Chicks came yesterday morning. They are the healthiest looking I ever saw. Yours truly, A. S.

FLORENCE, Mass., April 7, 1916—Dear Sir: I am rather late in writing, but the 50 chicks came thru all right, excepting two, one dead, the other with a broken leg. Aside from that they are about as lively a lot as I have seen. Haven't lost any as yet. The 10 pullets purchased from you are yielding me nine and ten eggs daily now, which is breaking the record around here. L. J. K.

PRICE, Utah, April 13, 1916—Dear Sir: In December, 1914, I purchased from you a R. C. Red cockerel and thinking that you might be interested in the results I have had with him, thought I would drop you a few lines. Will state that a number of his pullets started laying before five months old; last year at the Carbon-Emery Fair I was awarded first and second cockerels and second pullet and this in the face of strong competition and the fact that my stock is supposed to be only a utility strain. I am still using him in one of my breeding pens and this morning had a hatch of 15 chicks from that many eggs. This Fall I think I will again draw on you for some more stock. Yours truly, J. J. W.

DE WITT, Iowa, April 24, 1916—Dear Sir. The White Rock hens I have received from you have proved to be great layers, they have got my other Rock hens beat a mile. Yours very truly, T. T. B.

With my Strains and your careful attention, the above results will be YOURS.

JOHN G. POORMAN, Box 100, Tinley Park, Ill., U. S. A.

The Coveted First Buff Orpington Cockerel at New Orleans, Louisiana, at the National Farm and Live Stock Show, November 16-19, 1916.

The Middlemarch Champions

won 1-2-4-5. Second notable 1916 winning in the South. Right down to the minute winnings at the Great National Shows—Chicago Coliseum, Dec. 1915, Milwaukee Auditorium, Minneapolis, Fargo, Memphis and New Orleans—all in 1916. Other recent winnings—Minnesota State Fair (clean sweep in cockerels) Birmingham, Alabama (1-2-3-4) La Crosse Wis. (all five firsts) and Sioux City. My ten years of selection and careful breeding of Buff and Black Orpingtons and my consistent winnings is guarantee sufficient to you that I have quality plus. Stock shipped on approval.

JESSIE F. GORDON Box 535, Spring Valley, Minn.

Secretary-Treasurer Minnesota Branch A. P. A.



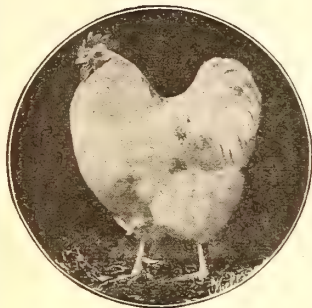
S. C. W. Leghorns—W. Faced Black Spanish Cockerels

Hundreds of fine cockerels, bred from our Panama-Pacific Exposition and Ohio State Fair winners, that will please you, and at the price we offer them at we know you cannot beat them. Breeding cockerels, \$3.00, \$5.00 and \$7.50; exhibition cockerels, \$10.00 up. Remember these cockerels are from same matings that furnished our 1916 Ohio State Fair winners. J. W. FRIESNER & SON, BOX 1, C. BREMEN, OHIO

Send for a Copy of New Am. Poultry Journal Cut Catalog.

The **KELLERSTRASS STRAIN** of

Crystal White ORPINGTONS



First Cock at Madison Square Garden, New York

won more first and second prizes up to 1911 and 1912 at the world's largest shows, such as the Jamestown Exposition, Kansas City, Baltimore, St. Louis, Chicago, and at

Madison Square Garden, N. Y.

than all competitors combined. Since that date we have not exhibited at those shows. We advertised in advance we would not show for a certain period of time. We did not, but most of the first prizes awarded on White Orpingtons at New York, Chicago and Kansas City during 1913, 1914 and 1915 were placed on birds owned by customers of the Kellerstrass Poultry Farm—breeders whose foundation stock was direct from Kellerstrass. This should convince anyone that the Kellerstrass Strain is

The World's Greatest Strain

of Crystal White Orpingtons. This fall we exhibited our stock at five of America's leading state fairs, traveling over seven states to do so. We competed for a total of 27 first prizes and won 21 first prizes, besides a silver trophy for champion pullet in the English class, special for champion hen in the English class, specials for champion cock and champion cockerel, were all carried off by our birds. First prize cockerel was won by us at all of these five great expositions.

They Lay, Weigh and Pay

As far as we know or can find out, no chicken ever equaled the world's record for laying made by a Crystal White Orpington bred and owned by Mr. Kellerstrass. This great pullet laid 263 eggs in 272 consecutive days and then went broody, was set and she raised a fine lot of 12 chicks; nine were cockerels. The mother then grew into a ten pound hen and became famous for her fine exhibition qualities. The

nine sons were bred from by Mr. Kellerstrass for three years, thus stamping the combined egg laying and exhibition qualities of this great hen on all Kellerstrass Strain birds. We believe that today our birds are bred whiter and produce more eggs than the birds of any other strain. One customer in California reports a pullet hatched from eggs bought in 1915 to have just finished laying 269 eggs in one year. Another egg customer in Missouri reports several pullets as now past the 220 egg mark.



1,200 Choice Show Birds and Breeders Now Ready for Your Orders



First Hen at New York

We can furnish high grade utility males or females, choice breeders or show birds of the kind that win in any show in the world, and at prices that are very reasonable for their quality. Tell us just what you want, the number, age, and sex, and we will select the birds, will describe and price them. Should you order we guarantee each bird to please you, and you can look it over 3 or 4 days. Should it not please you, return same prepaid and money in full will be returned.

10 Choice Pens Mated Oct. 15

They are "all star" matings, containing only the cream of the Kellerstrass flock, the very best layers and exhibition birds in the world. Can handle only a few early orders at \$5, \$10, \$20 and \$30 per 15. Come direct to the fountain head and get the best. Free catalog, also special fall sale price list. Date of special sale extended to December 15.

THE 1733 RANCH

R. 6, Box 2, KEARNEY, NEB.
Russell F. Palmer, Mgr. Jas. Swan, Supt.

Successor to Kellerstrass Poultry Farm

birds whose breeding and ancestry we know.

* * *

For variety that keeps one from being bored, that prompts various sorts of emotions, that stimulates but does not admit of any slip back or depression, the New England climate is without a peer. If one wishes to make a collection of the various sorts of weather, with very little duplication and some particularly rare and valuable sorts, he should come to New England. The time or the season matters little, but the coast region is most favored by collectors; here, within a very short time, it is possible to collect at least 57 varieties of weather of all dimensions. Variety being the spice of life, New England is a good place to live. October 28th the hens and pullets were following the plow and scratching grubs in the mellow earth; fall plowing was like early summer work. Biff, bang! along comes an easterly storm with howling wind and chill. The scene changes and summer days return. November 11th is like a summer day, but the moon rises cold and clear and water freezes in the poultry fountains at night. November 12th comes in with gray skies and then the warm sun breaks thru; we go on a beach picnic, cook dinner on the beach and enjoy a swim in the briny ocean and come home by the mellow light of the moon. Fifteen minutes after we have put the auto to bed and begun to get settled down by the open fire to read the papers, up comes the wind, and rain and hail beat upon windows and roof. November 13th comes in mild, foggy and springlike. The sky grows dull and leaden as the fog lifts; it is a day of mists and the sun and clouds play open and shut. November 14th, the first light snow fall of the season. The Boston (Mass.) weather man says:

"No November 15 has ever been as cold since the same cold spell of 1873, so that this year may set up a new record in fall frigidity."

No lack of variety here, and we are willing to wager that we will have opportunity for another picnic, and chicken fried over a fire on the beach, before Christmas day arrives. New England climate from the last of March until Christmas suits us fine, but the balance of the year we believe we would prefer Florida or Southern California if we could make it.

* * *

Be sure to keep the stock birds comfortable and contented. Feed well and give a variety of grains, greens, animal food, and plenty of fresh water, with a constant supply of good grit and crushed oyster shells. Good care and management is necessary if you wish to obtain best results from breeding birds. Do not over-show specimens intended for breeding, better still do not show them at all if you have other good birds that can be exhibited. One show a season is plenty to make with a bird you intend to breed from; two shows well apart is about the limit of safety, and three shows in succession will be apt to ruin even an unusually hardy, vigorous specimen so far as best results in breeding from the bird are concerned. The strain of conditioning and shipment to and from the show is considerable; the excitement and long sleepless hours in the exhibition hall are not good for the bird, and the risk of disease or injury has to be reckoned with. Take good care of your breeding birds.

The Big Show season is here once more and is welcome. We hope to take in the Palace, Madison Square Garden and the Big Boston exhibitions, to meet old friends, renew old acquaintances and make new ones, and to learn more about poultry experiences of big and little breeders, as well as to view the advance in Standardbred fashions of feathered favorites. Big shows make a lot of work for the men who must report them, but they also furnish a heap of enjoyment and much that is interesting and instructive. Don't miss the big shows.

* * *

Breeding stock should be mated up early. It is only a few short weeks now before eggs will be required for hatching early chicks. Incubators and brooding equipment should be overhauled and put in commission for the season's work. If you need new equipment, get your order in early to avoid vexing delays. Hatches must start in January for February chicks and the time is close at hand. Better get busy.

* * *

Baby chick hatcheries are now booking orders for early chickens, the demand promises to be better than ever during the coming season. Hatchable eggs for January incubation are wanted. Book orders for eggs or chicks early.

* * *

If breeding stock is required for the 1917 season, get your stock birds early. Buy now and get immediate shipment. The birds should be well established in new quarters, thoroly wanted and acclimated before you begin to draw on them for hatching eggs. Traveling in a shipping coop, under present transportation conditions, is a hardship for the birds. They need time to rest and recuperate. Buy early and get as much time between shipment and actual breeding use as you possibly can. Give the birds the best possible care. If you expect to buy new breeding specimens for use any time during the coming spring, buy *now*.

* * *

Gather eggs early and often during cold weather. Do not keep eggs in a warm room. Eggs for table or for hatching purposes should be kept in a cool room where the air is sweet and there are no strong or bad odors. Temperature of egg room should not fall below 40 degrees F. or go above 60. In keeping eggs, place in a box or basket in same position as they are usually found in the nest. Do not handle or turn more than is absolutely necessary. Remember that the fresher an egg is when set the better. Ten days to two weeks is long enough to keep hatching eggs, a shorter period is better, and three weeks should be the limit.

* * *

Some poultry keepers prefer to give drinking water warm in winter time. We don't. The birds get it just as it comes from the spring. It freezes and the birds break the ice,—keep a little drinking hole open by active use of water pails. Water is supplied every morning and renewed at noon if necessary. The birds do the rest. When clean snow is abundant, we give them a pail full of snow and they generally prefer snow to water.

* * *

Breeders and layers are all housed in open-front houses. They run out of doors in yards all winter when the yards are hard and dry. If there is much cold

The **QUALITY STRAIN** of

Rose Comb Reds

After winning first cockerel and championship male at Chicago, won five of the six firsts at St. Louis, won first cockerel and pen at Kansas City, won all first prizes at Nebraska State Show and State Fair, and then at the great Panama-Pacific Exposition, San Francisco, they competed against 900 Reds, 327 of them Rose Combs, coming from 16 different states, and under Judge Tucker, who has judged Reds at Chicago for years, and Judge Shove, who has judged the Reds at Boston and New York, and judge Card, who also has judged at Boston and New York, our great exhibit at this big world's exposition won the

World's Championship

in a manner so convincing that no one can question it. Under the three greatest Red judges in the world our Reds made a win never equaled in any show of National importance by any breeder. They won 1 and 2 cock; 1, 2 and 5 hen; 1 chl.; 1, 3, and 7 pullet; 1 and 4 breeding pen, winning every first prize, a feat never before accomplished by any R. C. Red breeder at any National Show. We also won Champion Red of the show, both males and females of both Rose and Single Combs competing; won special for best colored male and best shaped male, for best colored female and best shaped female. Special for best Red male, trophy cup for best display of R. C. Reds, and cup for best display of Reds, both Rose and Single Combs competing. Our record this fall at five leading state fairs shows our Reds better than ever.



Sire of first cockerel at Chicago, winner of special for best colored male, special for best shaped male, and champion male. Also sire of first cock and champion Red male at World's Fair, San Francisco, and grand sire of first cockerel and first pen cockerel at same exposition.

Our Champion S. C. Reds

Were also winners at the 1915 World's Fair, and this year we have produced over 1,000 head as fine in size, color, shape and head points as were ever bred on one farm. This fall, at the Iowa State Fair, in a class of 160, won three firsts one second and one third. At Nebraska State Fair, in a class of 192, won four firsts, four seconds, and two thirds. At three other State Fairs won 16 firsts from a possible 16, and in competition with 409 good S. C. Reds at the three fairs. Our customers in United States and Canada.

Buff Orpingtons

Chicago and World's Fair Winners.

White Wyandottes

Winners in five states.

White Rocks

Winners in five states.

Barred Rocks

Winners in five states.

White Leghorns

Winners in five states.

Indian Runner, Mallard and Pekin Ducks, Geese, White Holland and Bronze Turkeys, are all bred by us on our 5,200 acre ranch, and the quality of all is as great as is our White Orpingtons and Reds, but space does not permit details.

Note our selling plan and guarantee in White Orpington ad on opposite page. Breeding pens of all our varieties mated since October 15, and can fill egg orders now. Free catalog and special fall sale price list.



First prize winner in pen at the World's Fair in San Francisco. Over 300 choice birds raised from this fellow in 1916. Have 200 choice sons and daughters left for sale.

THE 1733 RANCH RUSSELL F. PALMER, MANAGER
R. 6, Box 2, KEARNEY, NEB.

An Open Letter to the Poultry Fraternity

Chas. J. Fisk, Owner
M. L. Chapman, Mgr.
D. G. Keyler, Asst. Mgr.

Wilburtha
POULTRY FARMS

27 River Road
Trenton Junction
New Jersey

Trenton Junction, Dec. 1, 1916

Gentlemen:

As progressive poultrymen, concerned in the advancement of your industry, I feel certain you will be interested in knowing of the wonderful progress we are making at Wilburtha. We are doing big things here and we're going to do still bigger ones. Let me tell you about them.

Wilburtha Poultry Farms' birds were invincible at the large 1916 fall Shows. At New York State Fair, competing in all classes, we won nine Firsts and many minor prizes. At New Jersey State Fair, we entered in 16 classes, winning 13 Firsts. Birds in the hands of our customers have been equally successful at Toronto, Hagerstown, Allentown, and other fall Fairs.

In Columbian Plymouth Rocks and Wyandottes, we have again demonstrated undisputed supremacy at the New York State Fair, winning Best Display in both varieties. It will be remembered that we also won Best Display in both varieties last winter at Madison Square Garden. Our trade has been heavy in Columbians and we have but a few more birds to spare in these varieties. It is not too early to write us about **hatching eggs** and **baby chicks** for next season. Last spring we were obliged to return hundreds of dollars, as we could not fill all the orders on these popular varieties.

Wilburtha White Leghorns: While we do not claim absolute supremacy in this great breed, we are credited with having one of the two best flocks in the world. Wilburtha White Leghorns won prizes in every class at both the Palace and the Garden last winter. This is a noteworthy achievement never accomplished by the birds of any other breeder.

At the New Jersey State Fair this fall, we won four first premiums in strong competition. We have plenty of White Leghorns in stock, both utility and exhibition birds and are prepared to furnish birds for any Show. We will match these selected birds against those of any other breeder in the world, the prices being equal.

White Plymouth Rocks: This is the first year that Wilburtha Farms has advertised White Plymouth Rocks. Mr. Chapman, our General Manager, has, however, bred them for 20 years. He considers them to be the best breed in the world. Our first exhibit in this breed was in the hen class only, at the New York State Fair. We won 1st, 2nd and 4th. One week later, we won three Firsts and Best Display at the New Jersey State Fair. We now have White Plymouth Rocks in considerable numbers, and can fill orders for business-bred birds. We can also furnish cocks, hens, cockerels or pullets that can win in any Showroom in the world.

S. C. Rhode Island Reds: We fully believe that Rhode Island Reds have a great future. Mr. Chapman and myself recently spent about ten days in visiting the principal breeders of Rhode Island Reds. We returned from the trip well satisfied as to the quality of our own Reds. Although we have not exhibited our Reds this fall, we won, you will remember, Best Display in 1915 at the New York State Fair, New Jersey State Fair and at Hagerstown, Md. Write to us for anything you need in Reds. We can certainly send you birds that will prove satisfactory for utility or exhibition purposes.

Buff Leghorns: Our entire flock of Buff Leghorns, good-will, etc., was recently sold to Mr. Thos. Henry, Jr., of Chester, Pa., to whom all inquiries should now be addressed. We turned over a splendid flock to Mr. Henry and we recommend the man and the flock to all admirers of Buff Leghorns.

In conclusion, I just want to add that we are all very proud of Wilburtha and its place in the front rank of poultry farms. We are so proud of it that we will always protect its reputation at all costs. As long as Wilburtha is Wilburtha and under my control, you may be sure of a "square deal"—either entire satisfaction in your purchase or your money back and our apology for any inconvenience.

Sincerely,

Chas. J. Fisk
Owner

P. S. Why not write Mr. Chapman today? Tell him what you want—whether utility or exhibition birds. He'll help you.

wind, or if stormy, or if yards are wet and sloppy with mud or half frozen slush, the birds are kept in the houses. If snow is deep and ground frozen, a little space is cleared in front of houses so that birds can get out-door exercise in similar manner, except that they are protected from chilling winds by board wind-breaks.

* * *

Evergreen trees or boughs, leantos of boards, or fodder corn, all make good wind-breaks for fowls in the winter season. Fowls and chicks can stand cold temperatures, but suffer much from chilling winds.

* * *

We don't know what we did to deserve it, but we are going to take our medicine without a whimper. John R. Taft, of Gowanda, N. Y., presumably after having eggs for breakfast, roast fowl for dinner and chicken pie for supper, frees his mind to us in the following verse—not wishing to keep it all to ourself, we share it with you:

If the land was shorn of fanciers
And fancy chickens grew
Just specks and spots or hit-or-miss
As mongrel chickens do.

Perhaps in time some farmer
Might mate a breeding pen,
But then—why hang it all—
We'd have a fancier again.

* * *

All this controversy about the definition of the word "fancier" and what is and why is a fancier, seems to be getting on the nerves of the reading public and we feel certain that Mr. Taft's verses, with their apt and simple solution of the whole mystery, will prove like oil on the troubled waters.

100 % HATCHES STRONG HEALTHY CHICKS

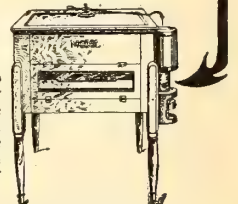
THAT'S the answer to big poultry profits, and that's the reason why you should investigate

Model Incubators and Hovers

Model Incubators are safest, most convenient and most economical. They hold the record of three consecutive 100 per cent hatches. They are fire-proof and fume-proof and they automatically ventilate themselves.

Prices \$10 to \$48.
According to Size.

Models cost no more than inferior incubators because we make every part ourselves, even the thermometer. You ought to read our guarantee.



Model Coal Burning Hovers \$15

Patent No. 1,204,836. Warning: Infringers prosecuted. Model Hovers protect your chicks during the critical first 3 weeks. Never equalled at the price. Self cleaning. Self-regulating. Spark-tight. Gas-proof. Let us send you literature.



Sanitary Hover Only \$8.50

40,000 sold in four years. All metal. Vermin-proof and fire-proof. Portable. Cleanly. Simplest to operate.

FREE—The advice of experienced and successful poultry breeders is contained in our big FREE book—"First Aid to Poultry Keepers"—130 pages.

MODEL INCUBATOR COMPANY
2 Henry St., Buffalo, N. Y. Also 3 Barclay St., N. Y. City

Intestinal worms, of several sorts, are very troublesome at times, especially with old fowl. When discovered in the droppings it is a good plan to thoroly clean up and disinfect the poultry quarters. A remedy for worms, recently reported as very successful with poultry, is the following: Mix thoroly from 10 to 30 drops (according to age and size of bird) of oil of turpentine with 4 table-spoonfuls of warm milk and two tea-spoonfuls castor oil. Bird should be kept without food until crop is empty; then inject whole dose into crop with a long-nosed, soft-rubber, bulb syringe. For flock treatment use a morning mash mixed with warm milk. Whip up in milk, before mixing mash, from 5 to 10 drops of oil of turpentine per bird. Lesser dose for small fowls. Give this medicated mash for three mornings in succession, feeding fowls early in morning when crops are empty. If rectified oil is used the fowls will eat the mash more readily, as it is practically free from unpleasant odor and taste.

* * *

Camphorated petrolatum applied to the nostrils and roof of mouth, after first cleansing the parts with warm water, is an excellent remedy for simple catarrhal colds of poultry. To get best results, apply when sneezing and snuffling is first noted.

* * *

Scaly leg is a parasitic disease, caused by a small scab-mite. A good remedy is the following: Mix 15 parts of oil of cade with 30 parts each of lard and soft soap; then thoroly stir in 15 parts of sublimed sulphur and 10 parts of calcium carbonate; add the sulphur gradually and work whole mixture until it is uniform. First cleanse the fowl's legs with warm soapy water to remove dirt and loose scales or crusts. Then dry thoroly and rub in the ointment. Apply every other day until three applications of ointment have been made. Three days after last application, wash legs well with warm water and soap and then rinse with cool water.

D. J. Browne, writing in 1849 "On the Laying Propensities of Hens," said:

"The act of laying is not voluntary on the part of a hen, but is dependent upon her age, constitution, and diet. If she be young, healthy, and well fed, lay she must; if she be aged and half starved, lay she cannot. All that is left to her own choice is, where she shall deposit her egg, and she is sometimes so completely taken by surprise, as not to have her own way even about that. * * * To every hen belongs an individual peculiarity in the form, color, and size of the egg she lays, which never changes during her whole lifetime, so long as she remains in health, and which is as well known to those who are in the habit of taking her produce, as the handwriting of their nearest acquaintance."



Leghorns Are Money Hens

S. C. White Leghorns stand the test of record keeping. Recognized everywhere as the commercial hen, lay well in winter; cost little to raise; produce more eggs and meat per pound of food than all other breeds. Winners in all egg-laying contests. Among White Leghorns Yesterlaid Range-Raised Laying-Leghorns are the strain supreme, so recognized by 24 State Institutions and Exp. Stations that purchased Yesterlaid stock or eggs. All "Yesterlaid" have blood records of—laying at 4½ months—261 eggs a year—470 eggs in two years. Find out why White Leghorns pay best.

Write for free literature.

YESTERLAID EGG FARMS CO., Dept. 5 PACIFIC, MO.

"Homestead"

The Word that Dominates in the World of Campines



Year after year, show after show, the Vigorous Strain of Silver Campines has forged ahead, until today they stand without an equal. As the months go by, just watch our winnings at the big shows, and to them add this wonderful list of wins:

At the New York State Fair, held at Syracuse, September, 1916, with a strong class of 119 birds, our first prize cock, and to them add this wonderful list of wins:

ere! was pronounced (by several leading judges) the best Silver Campine ever exhibited anywhere. At this show our complete winnings were: 1st and 2nd cock, 1st and 2nd cock-ere! 1st and 2nd pen, 1st display, 2nd, 3rd and 4th pullet, 2nd and 5th hen, and 2nd cock-late to be judged.

On account of delay in transportation, our birds reached the Great Allentown Fair too late to be judged.

At Brockton, Mass., Fair, October, 1916, we entered one pen and 2 birds in each single class. This, as everyone knows, is "the fair" of New England. We won 1-2 cockerel, 1-2 pullet, 1-2 hen, 1 pen, 1-3 cock. Color and shape special for best male, also for best female. Gold special for best six birds in class.

At Hanover, Pa., Fair, entered four birds, won 1 cock, 1 hen, 3 cockerel, 3 pullet. Write for prices and be sure to state if you desire exhibition or breeding birds. A beautiful catalog full of valuable information will be sent free, but we will appreciate a two-cent stamp for postage.



HOMESTEAD CAMPINE FARM

C. A. PHIPPS

Box A

WAYLAND, MASS.

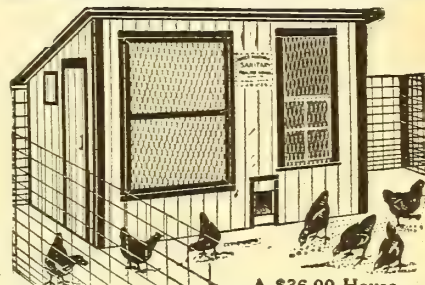
Don't Build—It's Cheaper to Buy Potter "Redybilt" Poultry Houses

Don't build—you can buy better, cheaper (ready built) hen houses, roosting and nesting fixtures, coops, hoppers, etc. We buy No. 1 high grade cypress lumber in car loads, cut and fit all parts perfectly in our big factory and deliver the complete house, coop or fixtures in convenient sections, all ready to be set up better and cheaper than you can build them yourself. Potter Poultry Houses, Roosts, Dropboards, Nests, etc. have been sold for over 10 years. Used by thousands of poultrymen. You start right when you buy them and save money, too. A clean, sanitary hen house means healthy hens and lots of eggs.



A \$6.60 Henhouse Outfit

No. 19, Style "A," 6-foot 3-perch, complete Potter henhouse outfit for 36 hens. This same style made in 12 sizes.



A \$36.00 House

No. 5, Style "D" Potter portable open front fresh air, scratch shed house, equipped with No. 17, Style "A" 5-foot 3-perch complete henhouse outfit for 30 hens. Price of complete house, \$36.00.

Big 112-page Catalog FREE

Shows over 150 pictures of Potter Portable Houses, Coops, Henhouse Outfits, Feed Hoppers, Brooders, Hovers, etc. Send two red stamps to cover postage.

POTTER & COMPANY

10 Forrest Avenue

Downers Grove, Illinois

Riverside White Rocks—Winners

We have in our yards the 1st, 2nd, 4th, 5th hens; 5th cock; 3rd pen at Wisconsin State Fair, 1916, in competition with stock which has been winning the blue at Chicago Coliseum Show for years. 102 White Rocks in class. Cockerels, hens and pullets from same blood at reasonable prices. Eggs in season.

MRS. H. C. ROGERS

R. 6, Box 3

OSHKOSH, WIS.

POULTRY ACCOUNT BOOK, with space to keep a daily record of your flock for one year, price 25c. American Poultry Journal Pub. Co., 542 S. Dearborn Street, Chicago, Ill.

POULTRY IN BRAZIL.

Richard P. Momsen, Vice-Consul of the United States, at Rio de Janeiro, Brazil, where he has been stationed for the past four years, at present in the United States on a leave of absence, has undertaken a commission for the National Brazilian Poultry Association to deliver to the Field Museum of Natural History, Chicago, Illinois, a silver medal of the type awarded at the First National Poultry Show held in Brazil.

Mr. Momsen, who was formerly engaged in raising thoroughbred poultry in Wisconsin, obtained from one of the American Poultry Journals a reproduction of the "Gallus Bankiva", the original mounted specimens of which are on exhibition at the above mentioned museum.

The Brazilian Poultry Association has presented this medal to the museum in recognition of its appreciation. Mr. Momsen, who for two years was Secretary of the National Poultry Association of Brazil, and

has also served on its Board of Directors, took an active part in promoting the First National Poultry Show ever held in Brazil, at which over two thousand birds were exhibited. Since then exhibitions are being held each year, usually in July or August, these being the winter months in South America, the seasons there being reversed from those here. Mr. Momsen states that the introduction of American thoroughbred poultry, as well as poultry appliances into Brazil, is meeting with increased favor.

The American varieties most in demand are the Barred and White Plymouth Rocks, Rhode Island Reds, White and Silver Laced Wyandottes, White Leghorns and Black Minorcas. The English Orpingtons are preferred over the American varieties because of their superior weight. Most of the poultry activities in Brazil are still in an experimental stage, there being many local problems still to be solved, among them being the difficulties with peculiar tropical diseases. The fact that corn is practically the

only cereal produced in Brazil, which necessitates the importation of wheat, barley and oats, and consequently makes their price very high has militated against the establishment of large utility farms.

American poultry breeders and dealers wishing to enter or enlarge in their Brazilian business may send the printed matter in small quantities to the Sociedade Brasileira De Avicultura, Caixa do Correio 316, Rio de Janeiro, Brazil.

The following are the most important breeders and dealers in Brazil, who would also be interested in receiving catalogs and other printed matter:

Dr. Calmon Vianna (Ascurra Basse Cour), Ladeira de Ascurra 55, Rio de Janeiro.

Dr. Delgado de Carvalho (Posto Avicola do Rio de Janeiro) Rua Mattoe Rodrigues, 36, Rio de Janeiro.

Manoel Pinto (Villa Ideal), Rua 8 de Dezembro, Rio de Janeiro.

H. Moraes, Rua do Ouvidor 63, Rio de Janeiro.

For 21 Years
Cyphers Co.
Has Led
the Way

Send
for
This
Book
Today

Special chapters are provided in this 1917 Book for the farmer who wants to make more money from his poultry flock, for the farmer's wife, for the back-yard poultryman, and for the man who plans to make a living with poultry—every chapter alive with condensed truth dug out of practical experience. Send a postal today for your copy of this big, practical guide to poultry-keeping, and get started right.

Cyphers-Built Incubators Three Styles—Eight Sizes

Cyphers-Built Incubators have a record that has never been equalled for successful hatching—for producing chicks that live and grow. Thousands of experienced poultrymen say they "will have no other machines." Beginners declare they "owe their success to them."

We make styles and sizes to meet every need; heated with hot air or hot water. Every machine has to measure up to world-famous Cyphers Company quality. Send for the Year Book and get full description, including colored plates; learn all about these dependable hatches.

Our 1917 Year Book also describes Cyphers Co.'s complete line of Brooders, Hovers, Poultry Foods and Supplies—everything a poultryman needs.

Don't try to decide ANYTHING about your poultry plans until you get this Book. Write today. Address

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Boston, Mass. Kansas City, Mo. Oakland, Cal.

Standard Cyphers
Incubator
Made in Four Sizes

How To Succeed With Poultry

1917
Complete Catalogue
Cyphers Incubator Company



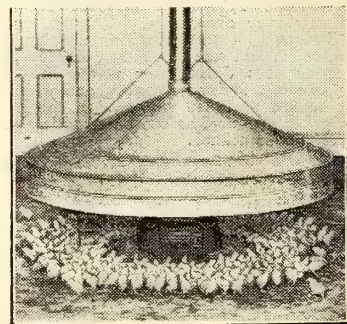
Start Right This Year

Get the Cyphers Company's Big New FREE Year Book

IF all the books ever written on poultry were destroyed and only this one complete book left, it alone would enable you to start right. Why? Because this book contains the boiled-down experience of the whole poultry industry. It gives the real, hard facts on which profitable poultry keeping is based.

Cyphers Co.'s Big 1917 Year Book Now Ready—FREE

A veteran of the poultry industry—one who by sheer force of ability has risen to a place of power and wealth in the industry—recently said: "No matter what you want to do in the poultry business, be you big or little, write for the Cyphers Year Book. You might spend \$100 and not get the practical information this book brings you free."



Cyphers Coal-Burning
Colony Hovers
Price \$15.00 Up

Broods 300 to 1000 chicks at one time. Has automatic regulator and plenty of heat, no crowding. Raises strong, vigorous chicks, uses little fuel, and is simple and easy to operate. Fully described in our FREE Year Book. Write for it and get full details of Cyphers wonderful hovers, the best brooding devices you can buy anywhere at any price.



Horticulture for Poultry Keepers

Conducted by Thos. F. Rigg, Iowa Falls, Iowa.

"The earth has grown old with its burden of care,
But at Christmas it always is young;
The heart of the jewel burns lustrous and fair,
And its soul full of music breaks forth on the air,
When the song of the angels is sung."

DECEMBER! Another year nearly gone, another year soon to open. I wish that each reader of the AMERICAN POULTRY JOURNAL could drop his and her every sorrow and care, as each steps from the old to the New Year. But that cannot be and even if it could, some of us would not have it so, for if we were to drop our sorrows we would, too, drop memories, and most of us have memories glorified by sorrow. May the new year be good to all of you, my readers, and may each of you be of help and cheer and comfort to some one who needs the service of the kind and the unselfish. The more we do for others, the more we do for ourselves.

* * *

The opening of December will find the work in orchard and garden completed here in the great North. And now we will put in a part of the long winter evenings planning for next season's work. It is more than fun these winter evenings, sitting before the open fire reading with our loved ones about, with apples, popcorn and cider in plenty. The log in the fire-place burning brightly is giving back now all that the tree received thruout its many years of life—sunshine, storm and memories of happy days when its limbs cradled young birds, and butterflies built their fairy-like palaces on its trembling leaves. I think I see all this in the crackling log on the hearth, the spitting of the log, the sputtering, the popping and the various little explosions as they boom. There in the smoke I see the dancing fairies, or is it the spirit of the wood nymphs who used to play about

the giant tree whose parts are now making my library so pleasant? And so in the mellow glow of the friendly fire, we plan for the year to come. We shall, no doubt, build many castles which will fall, but we will have the pleasure of constructing them. And some will endure and serve us thruout the year.

* * *

I am in receipt of cards announcing the marriage of Mr. Paul C. Stark and Miss Theodosia Armstrong. Mr. Stark is a member of the firm of Stark Bros., Louisiana, Mo. Congratulations!

* * *

In the North, grape pruning will be carried on to some extent this month. In this connection, Prof. Burgess says:

Grape pruning experiments carried on near Council Bluffs last season, to compare the "spur" with the "long cane" system of pruning, showed that vines pruned after the latter method yielded an average of 41 per cent more grapes than the spur pruned vines.

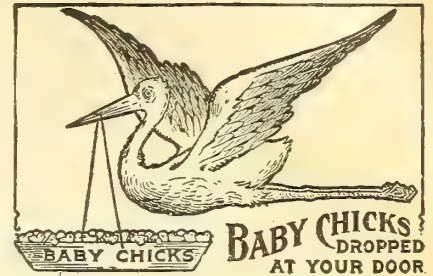
The tests were carried out in vineyards owned by J. W. Dorland, W. G. Rich, L. J. Johnson, Charles Konigsmarker and E. A. Hess, all of Council Bluffs.

In long cane pruning, some of the canes of the previous year's growth are left for fruit production, while others are cut back to one or two buds to stimulate production of new vigorous shoots and renewal spurs. Thus non-productive wood is replaced by vigorous young canes.

Intelligent grape pruning is based on these principles: (1) Fruit is produced on shoots which spring from one year wood and hence, a certain amount of last year's wood must be saved for fruit production, and provision made for renewal growth which can be used the following year; (2) Generally speaking, operations which reduce the vigor of the vine tend to promote fruitfulness, and operations which limit fruitfulness tend to promote vigor.

If too much wood is left on the vine, over-

THE EARLY BIRD



Do You Want Chicks in March?

We should have your order soon. Eight years of Day-Old Chick Success—nearly 10,000 shipments—1,300,000 "better hatched" chicks in the hands of satisfied customers. 11 varieties. Send for bulletins, prices and easy payment plan—they are free.

THE CO-OPERATIVE BREEDING & HATCHING CO. Box A, Tiro, Ohio

230 EGGS PER YEAR

This is the record of one of my

S.C. Buff Leghorns

at Storrs Connecticut Contest under official supervision. Five of my Buffs in official contests, averaged 214 eggs in 11 months. 40% of my birds in Missouri Contest laid over 200 eggs. Private records up to 267-274 eggs. Proven outside my own hands—surely.

Bargains Now in Egg-Bred Cockerels

300 classy, even colored cockerels for sale. Grand exhibition birds for any show. Special prices this month.

My Winter Laying Leghorns won many firsts and Championship at Chicago Coliseum Show, Shape Special at World's Fair, etc.

My show birds lay. What do yours do? Hook up to the Egg-Bred Winners, bred for eggs but fit to show.

LAUREN E. HEASLEY

Box A Holland, Michigan

DAY-OLD CHICKS

For Spring delivery. Leghorns, Rocks, Reds, Orpingtons, Wyandottes. Also some Buttercup stock for sale.

Tiffin Poultry Farms and Hatchery
Department A, Tiffin, Ohio

Champions at Storrs International Laying Contest which closed Oct. 31. Pinecrest

S.C. REDS

won over all Reds with a wonderful record of 1935 eggs. Our best individual record of 260 breaks all Storrs' records for Reds. Send for circular and prices. Satisfaction guaranteed. Pinecrest Orchards, R. 2, Box 103, Groton, Mass.

Hatch by Electricity

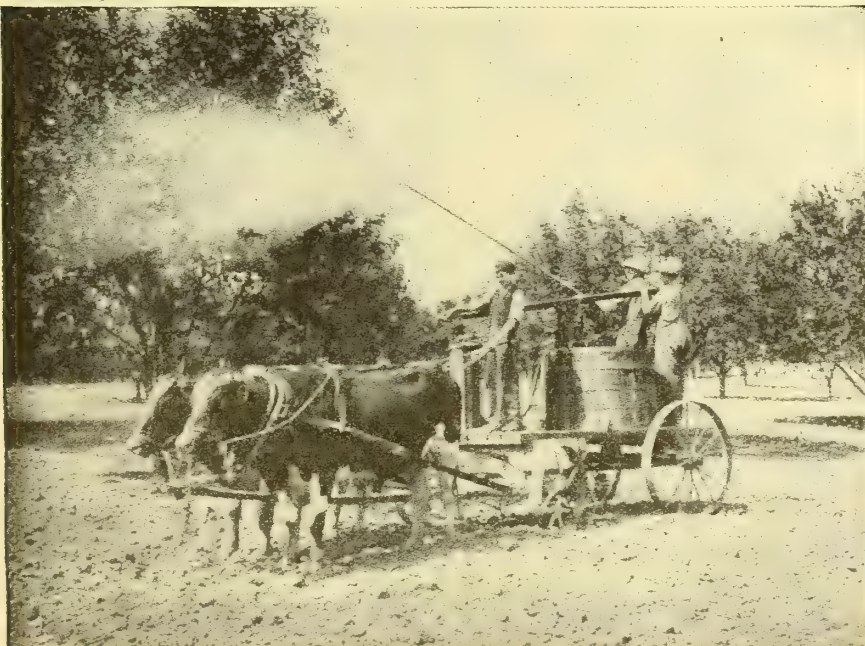
The LO-GLO ELECTRIC Incubators and Hovers are the final expression of the art of incubation. Absolute control of Heat, Moisture and Ventilation insures big hatches and strong chicks. All metal. Fireproof, sanitary, indestructible, odorless. Write for free booklet (J.)

Lo-Glo Electric Incubator Co., Inc.
76 Greenwich St., N. Y. City, U. S. A.

WORLD'S CHAMPION BLUE ANDALUSIANS
Record breaking wins at Syracuse Fair, 1916, also Madison Square Garden, Boston, Buffalo, Philadelphia, Detroit and Forest City Fair. A grand lot of young stock for sale.

JOHN McKIBBIN Willoughby, Ohio

BABY CHICKS Get our prices and book your orders for early spring delivery. Eight leading varieties. Quality. Prices reasonable. Mention A. P. J. HUBER'S RELIABLE HATCHERY, Sales Dept., KANSAS, O.



Spraying in the orchard of Feeble-Minded Youths, Fort Wayne, Indiana. Giving the trees the Dormant Spray of Scalecide.



GET MORE WINTER EGGS

Strong, vigorous, red-blooded hens lay those high priced winter eggs.

Put your poultry in a healthy, productive condition and keep them laying steadily throughout the winter by mixing

Conkey's POULTRY TONIC

with the feed once each day. It's a high grade medicinal—not a cheap filler. Thousands of poultrymen have proved it a successful regulator and egg producer. Buy Conkey's Poultry Tonic in pails, \$1.25. Packages 25c-50c.

Colds and roup come with damp, chill weather. Don't let this deadly, contagious disease get your best birds and hard earned profits. Be prepared. Put a measureful of

Conkey's Roup Remedy

in the drinking water at the first sign of roup and the birds will doctor themselves. No fuss, no bother. Packages 25c and 50c.

Write for Agent's Prices
Send 4c for Conkey's 80-page poultry book.

The G. E. Conkey Co.
1000 Conkey Bldg., Cleveland, O.



FREE!

Save Big Money on Poultry Fence! Get my big new Book Free! 150 Styles. Also Gates and Steel Posts. Direct from factory, freight prepaid.

SEND ME YOUR NAME, NOW!

Brown Poultry Fence outlasts chicken netting 5 times, yet costs no more. Heavy **DOUBLE GALVANIZED** Wire close spaced. No top or bottom boards needed. Get Free Book and Sample to test.

THE BROWN FENCE & WIRE CO.
DEPT. 830 CLEVELAND, OHIO

Grow your own Vegetables

Cut down living expenses. Easy to save time, labor and money by using

Planet Jr Garden Tools

This No. 4 Planet Jr combined Hill and Drill Seeder, Wheel Hoe, Cultivator, and Plow includes practically every tool needed to plant and cultivate a large or small garden. Can be used by man, woman, or boy. Costs little. Lasts a lifetime. New 72-page Catalog (184 illustrations) free! Write postal for it.

S. L. ALLEN & CO
Box 11077 Philadelphia

POWERS' W. WYANDOTTES

600 fine youngsters for sale from my heavy egg strain

J. H. POWERS' POULTRY YARDS
7920 Bennett Ave. Chicago, Ill.

Fall Spraying "SCALECIDE" Does the Work Controls Leaf Curl Cleans up the Trees

Don't put off the dormant spray until the spring rush. The weather may be bad or the ground too soft. Spray this fall and make sure of controlling peach leaf curl, San Jose scale, pear psylla, apple canker, collar rot, etc. You can save trees now that would die before spring. Use "Scalecide." Better and cheaper than lime sulphur—cuts the labor

bearing results; if too little is left, the vigor of the vine is directed to the production of woody growth instead of fruit. A happy medium between these extremes will give the maximum yield every year.

Before the long cane system was put in operation on the vineyards on test at Council Bluffs, a large amount of non-bearing vine was allowed to collect, the spur system being used.

I have practiced the "long cane" system with my vines and find it entirely satisfactory.

* * *

In answer to W. W. Trundale, Minn.: Yes, you can safely plant the Oregon Champion and Portage gooseberry, Red Cross and Diploma currants "forty miles south of Minneapolis." I am not sure the Royal Purple raspberry is quite hardy enough for your purpose. Try out a few.

* * *

Be sure to mulch quite heavily the fruit vines and shrubbery planted this fall. Important.

* * *

Being a subscriber to the American Poultry Journal, I read your items on Horticulture with much interest. Will you kindly tell me what you think will be the best varieties of apples, cherries and early and late or fall bearing strawberries to plant in this locality.

I have a town lot and wish to set out a few trees and plants. The trees to be planted in the chicken yard. I would want trees and plants that would produce both quantity and quality.

Minnesota.

E. S. Holm.

You will find the Wealthy Patton's Greening, Eastman and Iowa Brilliant entirely hardy. With the exception of Iowa Brilliant, the above named varieties are fall apples. You will want one or two Duchess for home use. You will surely want some Delicious. D. M. Dickerson, of South Dakota, reports his Delicious trees have withstood forty degrees below zero. E. C. Tullidge makes a like report on his Wisconsin orchard of Delicious. Early Richmond and Montmorency cherry are best. Make the planting largely of the last named variety. I would advise that you plant only enough of the fall bearing strawberries for home use. For commercial use plant Senator Dunlap and Havaland for early, and Sample and Brandywine for late.

* * *

I read with more than common interest Dr. Woods' remarks on fall bearing strawberries November AMERICAN POULTRY JOURNAL. I think he is wholly right as to a few of these plants for the home garden. I advise my readers not to plant these sorts for commercial purposes.

* * *

In answer to H. H. Hoover, Montana: I am unable to tell you which would be better for your twelve acre orchard, Senator or McIntosh Red. McIntosh Red grows to perfection in your state and has been very profitable for all growers there. It always is in demand at high prices. The Senator is a fine apple and some Montana growers find it more profitable than McIntosh Red. You will probably make no mistake in planting your new orchard to McIntosh Red, with every third row of Senator. You will then have sufficient pollination.

STILES' COLORED LEG BANDS

SAMPLES FREE

Used by poultry raisers everywhere. Made of seasoned material. Stay on till taken off. Identify without handling. On and off like a key ring. Distinctive colors, Red, White, Blue, Black, Green, Ruby and Buff. Mention variety when ordering.



ECONOMY BRAND—Single coil for adult fowls. 12 for 15c; 25-30c; 50-50c; 100-75c; 250-\$1.80; 500-\$3.50, postpaid.



ROYAL BRAND—Double coil for adult fowls. 12 for 20c; 25-35c; 50-60c; 100-\$1.00; 250-\$2.25; 500-\$4.00, postpaid.

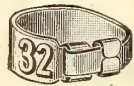
BANDS FOR GROWING BIRDS—(two sizes, state age) 12-15c; 25-25c; 50-40c; 100-75c; 250-\$1.75; 500-\$3.25, postpaid. **Baby Chick Bands** 25-20c; 50-35c; 100-50c; 250-\$1.25; 500-2.25, postpaid.

Favorite Poultry Punch, for toe marking chicks Price 25 cents.



THE VICTOR BAND has large printed numbers, bright and clear colors—Red, white, blue, green and yellow. Adjustable. Made of celluloid and aluminum. 12 for 35c; 25-65c; 50-\$1.25; 100-\$2.25; 200-\$4.00, postpaid.

ALUMINUM BANDS



THE CAPITAL BAND Has raised figures. Adjustable, strong, smooth edges. 12-15c; 25-25c; 50-40c; 100-65c; 250-\$1.50; 500-\$2.75; 1000-\$5.25.



THE FAVORITE BAND Made of heavy aluminum with smooth edges. Large raised numbers, locks with double clinches. Prices same as The Capital.

Exhibition Coops	-	\$1.50
Egg Shipping Boxes, per dozen	-	1.50
Marble Grit, per 100 lb. sack	-	.70
Green Food Holders, each	-	.35

CHAS. L. STILES

232 N. Third St. COLUMBUS, OHIO



POULTRYMEN GET THIS BOOK

A guide to standard poultry supplies, household necessities and general merchandise needed in every farm, or suburban home.

GALLOWAY INCUBATORS

Fully described and priced low. Complete power outfits illustrated, priced, described, engines, bone cutters, clover cutters, grinding mills, etc. Postal gets it. Ask today. Address **WM. GALLOWAY COMPANY, Box F Waterloo, Iowa**



PILLING CAPON TOOLS

Caponize and double the weight and the price of your cockerels. Easily done. Complete outfit—full instructions—prepaid.

G. P. PILLING & SON CO.
Philadelphia, Pa.

Send for Book FREE

White Leghorn Cockerels

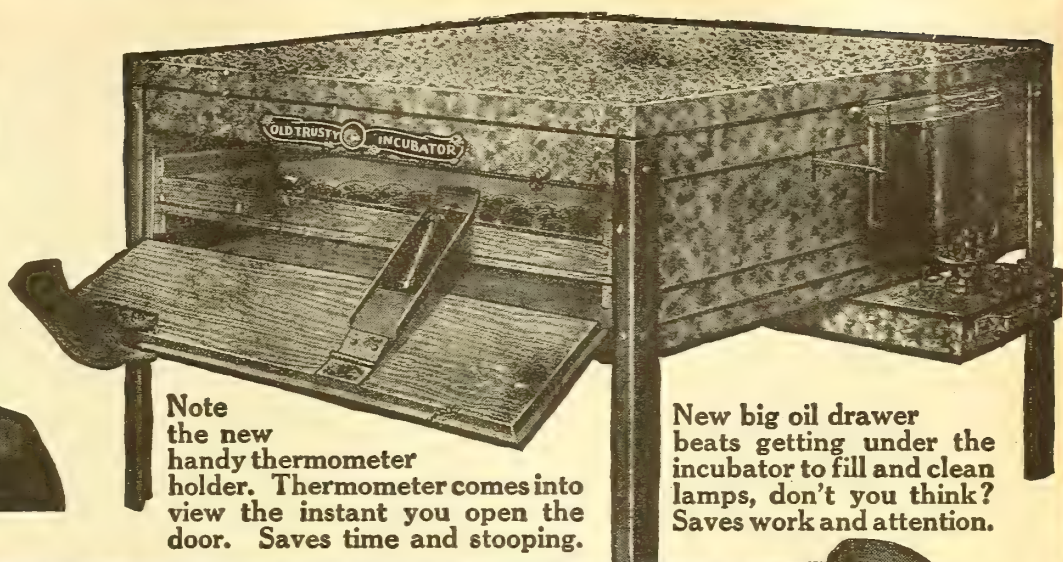
\$2.00 each. Small comb, pure white and good shape. Yearling Hens, \$1.00 each.

Morse's White Leghorn Farm Belding, Mich.

cost. Never injures trees, hands, face or pump. Cost of spray materials will advance before spring. Order now and save money. Write today for free booklet, "The Whys and Wherefores of Fall Spraying." **B. G. PRATT CO.,** Manufacturing Chemists. Department 47. 50 Church Street, New York City.



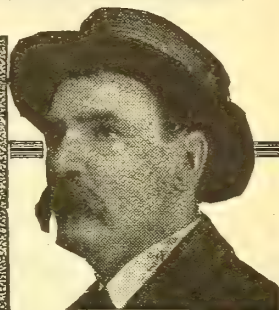
H. H. Johnson
"The Incubator Man"



Note the new handy thermometer holder. Thermometer comes into view the instant you open the door. Saves time and stooping.

New big oil drawer beats getting under the incubator to fill and clean lamps, don't you think? Saves work and attention.

New Features in Old Trusty



M. M. Johnson
Inventor of Old Trusty

Make Big Hatches Easier Than Ever

TO make Old Trusty a better hatcher would be out of the question. We couldn't improve the case, nor the time-tested heating system. Bigger hatches would be impossible, for Old Trusty leads the procession for biggest average hatches year after year, even in coldest weather.

These new features we added simply as conveniences. I call them work savers. For instance, the big oil drawer holds five to six quarts of oil. Saves filling at night and morning—calls for less watching. The thermometer, as you can see above, is fastened right onto the inside of the door. It comes out to meet you every time you open the door. Saves groping around for it in over the eggs.

Mail Coupon **Get Our New Book FREE**

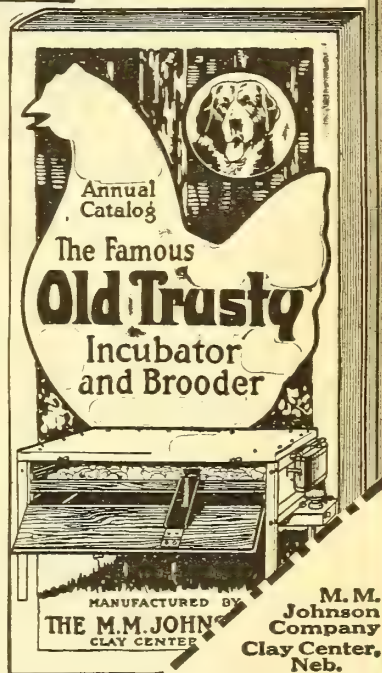
About 700,000 satisfied owners now boost for Old Trusty. Not a single one has ever found anything lacking in Old Trusty. They have made big average hatches year after year even in coldest weather. *Ten years* of big profit hatches for Francis A. Kressler of Walnutport, Pa., at about 20 cents each, is just one of thousands of Old Trusty's records that come to our attention. Of course owners are most always boosters, but the fact is Old Trusty has hundreds of thousands more owners than any other incubator. Why? Because Old Trusty was invented by a practical engineer and poultry raiser, is built by people who put their entire time and attention to it and who depend upon it for their success. Old Trusty could not be built better no matter what price you would pay for it. Better materials are not made and no one could think of a better construction. Yet you get Old Trusty at a low price. The reason is, it's built in the world's largest incubator factory with the latest cost-saving machines and equipment. We keep the quality up and the price down.

We Pay the Freight

Quick shipment from factory at Clay Center, Nebr., or warehouses at St. Joseph, Mo. and Seattle, Wash.

WRITE—get our new book—learn more about these new conveniences on Old Trusty. Get the Johnson annual catalog of "What's What in Poultry." Use the coupon or write a letter. Write today.

Tell me your poultry troubles. H. H. Johnson
M. M. Johnson Company, Clay Center, Neb.



Please send me your new annual catalog for 1917.

Name _____

St. or R. R. _____

City _____

State _____

TRADE AEM MARK

THERMOMETERS NEVER VARY

"AEM" EMBOSSED ON A THERMOMETER IS YOUR GUARANTEE that you are buying a skillfully made and absolutely accurate thermometer back of which is 53 years experience.

When you readers of the American, buy an incubator or brooder, be sure it's equipped with an "AEM" Thermometer, and then you'll be taking no chances on your hatch being chilled or "cooked" to death.

BUY FROM YOUR DEALER

If he can't supply you with an "AEM" refuse every other kind and order direct from us.

OUR POSTPAID PRICES

"AEM" Thermometer for any incubator	\$.75
"AEM" Thermometer with patent electric light attachment.....	2.50
"AEM" Certified Thermometer.....	1.00
"AEM" Incubator Hygrometer.....	1.25
"AEM" Brooder or Hover Thermometer .....	.75
"AEM" Electric Alarm Thermometer	5.00

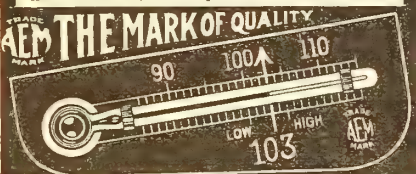
Special Prices in Quantities.

WHY CHICKS DIE IN THE SHELL

It's because of imperfect moisture regulation. Use an "AEM" Hygrometer and you'll always know exact amount of moisture in your incubator, and get far bigger hatches of bigger, healthier chicks.

We make more than a thousand different thermometers, for all purposes. Write today for Free Illustrated Booklet and price list.

A. E. MOELLER, 263 Sumpter St., BROOKLYN, N.Y.



SEX CONTROL

Offers You the Greatest Opportunity of Your Life

Sex Control is a proven fact and has been demonstrated to the entire satisfaction of scientific men and live stock breeders of national repute, and our Spok Ahne Strain of Langshans has made good, from Toronto to Corpus Christi, from Massachusetts Bay to Iowa, and back to North Carolina, and they will continue to make good, as long as they have a decent show. We now offer to sell the entire strain, consisting of the foundation hen, One Hundred, two of her oldest daughters, and her magnificent son, seven young hens that are very good, some of them ¾ the blood of Hundred, about a dozen fair pullets, three ready for service males, and one cockerel. With the flock will go the reputation, name, good will, and established business and all correspondence, inquiries and orders. Every bird will be pedigreed, and banded, and guaranteed a producing breeder, that will give you more females than males in her chicks. The price, Four Thousand Dollars (\$4,000), one-half cash, and balance in 12 and 24 months, without security, if your references are good. Failing to sell the flock, we will offer one pen, our selection, four females and one male pedigreed, and every female guaranteed to give you 75% females, or replace free. Price, \$1,000.

Whether we sell the flock or not, the price of eggs this season will be \$25 per setting, 15 eggs, eight chicks, six of them pullets, that will produce 70% females, or replace free, we add our guarantee to that of the purchaser of the flock, in case of sale. Place your order for eggs with us at once.

This strain of fowls is a finished product, ready for some one to make a fortune with. Our work is to develop a new strain, and by disposing of these fowls we will be able to devote our attention to the four other strains of Black Langshans we now have in hand.

Have just acquired 160 acres of land, which we are now developing with a view to establishing a herd of registered Sex Control Jersey Cows, which will be carried in addition to our flock of Langshans. Our interests will remain with these fowls after the sale as fully as now. We appreciate your correspondence, welcome your inquiries, but must have your order if we are to be of service to you. We are breeders, not dealers, and issue no catalog, but can give you value received for every dollar you send us, from \$25 for a setting to \$4,000 for the flock.

HERB E. SHARP LAN SHAN FARMS
R. F. D. 3, SPOKANE, WASH.

I would like to know if it is possible for me to take up shrubby plants, asparagus and pieplant roots, also small evergreens, cherry trees, currant bushes, shrubby and lilacs, also iris and peony roots this month. We have to sell our home and I have permission to remove these things and wish to take them to our new home, to help us feel at home. I have heard that they can be taken up in the fall and kept until spring out of the ground. Is this so, and if it is, should it be done before or after the ground has had a freeze, or will it be all right now that we have had quite a freeze but the ground not frozen very much, if at all. I will be very thankful if you will tell me, for I have worked hard to fix up things here and a new home without any of these things will seem even less like our home.

Iowa. Mrs. C. E. Draper.

All of these things, with the exception of strawberry plants and the evergreens, can safely be taken up and planted this month, or heeled in, provided the ground is not frozen. In this case if the trees and plants cannot be replanted it would seem as tho some protected spot can be found where the ground is not frozen where they can be heeled in. It is surely worth the effort. I would strongly advise against trying to keep these things in storage this winter.

* * *

Each season I await with interest the report of L. R. Johnson of Missouri regarding the behavior of his grape vines. Mr. Johnson has growing on his grounds about all the varieties of grapes of worth. His report for 1916 is of great interest. In the *Rural New Yorker* he says.

Goethe.—It is now the 23rd of September, nearly two months since the first grapes began to ripen, there has been a breath of frost, and still there are vines where sweet and luscious table grapes may be found. All of these are Munson seedlings, except one, the finest of all, and that is the Goethe, which also has the distinction of being the largest vine in all the vineyard, with a crop commensurate with its size. For a space of 12 feet or more one may stand before thick-hanging clusters of those big mouth-filling grapes, and help oneself as from a long counter. And these grapes will continue to hang for many days yet, for no bird now seeks them out, the appetite for grapes having apparently left the feathered rangers. I have tried sacking the Goethe, but found it a failure; the fruit will speedily decay when deprived of air circulation. Speaking of sacking, I find a great difference in its influence on varieties. Some improve under cover, some are unchanged and some deteriorate. Woodruff's Red would not stand it, but the thin-skinned Brighton kept wonderfully well, shriveling up, at last, like a raisin. Campbell's will keep perfectly for six weeks from the time they begin to ripen and the Wilder is another good keeper, as are most of Rogers'.

Comparison of Varieties.—Rogers was one of the great benefactors of viticulture, no one to compare with him unless it be Munson, whose work is still on trial. He gave us a group of new varieties that are unique in several characteristics, size, quality, beauty and as keepers. For a single variety we yield at once to Concord in its universality of success and popularity, but the grandest and most valuable of its family, as I find it here, is Campbell's Early a grape without a peer, the king of all. It is true there are clusters of Wilder that are as beautiful, but Campbell's will last as long, and is on the market receiving the high prices of the extra earlies long before Wilder is ready. It is paid more compliments than any other grape in my large collection, and attracts more attention and inquiry. It is the only grape that the Italian fruit vendors will buy without question, day after day, just like they do bananas, and keep a bulk of it always in their windows. It demands the highest price as an extra early and because it has no rival, it continues to demand it thruout the season and the last basket in September brings the same money as the first one in July. So much for Campbell's. I speak with confidence because it has maintained its rank as premier for 10 years without a failure. Yet a mile away a brother fruit grower pronounces it a failure, but he evidently failed to satisfy its two demands respecting which it will take no refusal. These are high feeding and short pruning. These it must and will have before it will show you what it is capable of. Every year it should be fed stable manure like cabbage, and pruned to not over 24 buds, with an average of 20. Even then it will steal a march on you by putting out two shoots from one bud. Great is Campbell's. I could make as much money

The Dictaform

Stop Wasting DICTATING TIME

Stop repeating over and over in your letters the statements and arguments.

Write your letters the DICTA-FORM way and everyone will be written as if when your mind was clearest.



Showing Patented Hinged Card

Beside having ready for instant reference your strongest letters, paragraphs and phrases, the DICTAFORM will store your Prices, Sizes, Weights, Descriptions, Designs, Diagrams, Statistics, Formula, Ideas, Campaign schedules, Proofs of cuts, Cost estimates, Blank forms, Samples, Circulars, Clippings, Ads and Results, Time tables, Lists, Names, Addresses, and Phone numbers; in fact everything to which you have occasion to refer.

Write for FREE Trial Offer

Write for descriptive circular on the new Mellicke DICTAFORM and for details of free trial offer. Or, better still—send \$12.00 for one Mellicke DICTAFORM. Money refunded if not satisfactory.

MELICKE CALCULATOR CO., 375 N. Clark St., Chicago, Ill.



Spiller's Leg Bands Eclipse All Others

They have that distinctive feature of quality.

Numbers always black on white. Bands all colors.

If you are hunting for the acme of excellence in colored bands, you need hunt no further than Spiller products.

They occupy the Pinnacle of Banddom. They are unexcelled for trap nest work and general use.

Let us prove it with a sample and catalog. Yours for the asking.

ARTHUR P. SPILLER

Dept. A

Beverly, Mass.

Black Orpingtons THAT WIN

I won all Firsts at Boston, 1916.
Four out of five Fists at Grand Central Palace Show, 1916.

Winners furnished for any show—none too large, none too small. *Stamford* is the one strain you can safely exhibit anywhere. Words cannot describe their beauty, so I sell under a guarantee of money refunded if not satisfactory. *I can please you.*

G. S. PURDY

STAMFORD, CONN.

LEG BANDS

THREE KINDS



Five sizes, pigeon to turkey. State breed. Come bent ready to apply. 12-10c; 25-20c; 50-35c; 100-60c. Sample 2 cents. Also ear tags for rabbits.

Southern Poultry Supply Co. 928 Conti St. Mobile, Ala.

and have the table supplied during the whole season from first to last, with just that one grape and not feel much deprivation at the absence of the others. Probably I could make more money, for Campbell's would fill the bill for every kind of grape want, unless it be one for white varieties.

Moore's Early.—This is the Missouri market grape for an early, and gives satisfaction, for it is as easily grown as the Concord, and no more exacting. At first glance you might think it a peer of Campbell's but acquaintance would show you that Moore's is inferior in quality, beauty, size of bunch, productiveness and shipping and keeping value. I cut all of Moore's before I cut Campbell's, for the latter will not crack no matter what the weather.

New Sorts.—A new grape that may have a great future before it is a cross between Campbell's and Brighton, made by Prof. Bachmann of Arkansas. The sample bunches that I saw seemed to be the equal of Campbell's and to resemble it closely, but it may prove superior. The one defect in Campbell's is imperfect pollination, which results in many imperfect clusters which require fashioning over with the knife before going into the basket. Two new grapes that fruited here for the first time were the Regal and Lucile, varieties highly praised in some Eastern catalogs. I found them both to be heavy croppers of large, handsome clusters, quite superior in this respect. The Lucile makes a very long cylindrical cluster without shoulder; red in color, fair in flavor, but a little foxy. It has kept well in sacks, but did not color up so well; was not near so rich in hue. I consider it very promising. The Regal is also a red, has a shorter, more compact cluster and ripens rather late. It is fair in quality and not foxy. Tested by the first year, it is not the equal of Lucile.

Lucile fruited for the first time on my place this season. It is a heavy cropper here. It is a rampant grower, but unlike Niagara ripens all its wood. I found that unless I treated Campbell's Early as Mr. Johnson directs I could get no fruit. I am afraid my crop of grapes will be light next season. During July and August we had a spell of exceedingly dry weather and the vines made little growth. During September and Octo-

ber we had constant rains and the vines tried to make a normal growth of new wood. As a result when I came to prune the vines I found much wood which was not matured. This forced very close pruning, which for the Concord and Niagara and Diamond is not good. This fall I planted a few vines of the Wallis Giant. This is said to be twice the size of the Concord in bunch and berry and entirely hardy in vine and foliage. I also planted a few of the Delicious, a new red grape, for trial. Will report on this in due time.

* * *

In answer to Mrs. C. P. Lane, Michigan: Dwarf pear trees sometimes break off near the ground, where the trees have been grafted on quince roots, but this can be avoided by keeping the trees well cut back each year, and having the branches come out near the ground. You should remember that Dwarf pear trees should not be grown high, like the standard trees. I think this will explain why your Dwarf trees have broken off near the ground.

* * *

It is good these days to go out in the orchard and see the trees standing clean by reason of the fall spraying and to note that all has been done for them that should have been done. What a lot of comfort we can get by doing the things we should do.

* * *

Everywhere I go I see apple trees suffering because their roots are not properly drained of water. In many cases the owners of the trees know they should give the water a chance to get away, but to put in tile is expensive and they do not do it.

May I trouble you to send me the location in Texas of Mrs. W. K. Danley, whose letter you gave in the American Poultry Journal, page 1133, October number.

I understand the Argentine blind ant is spreading from the neighborhood of New Orleans and is quite destructive of vegetation. Being the owner of some Gulf Coast property, am interested.

Illinois.

Chas. S. Hart.

Will Mrs. Danley give our readers further particulars as to the species of ant that is doing so much damage in her garden and fields? Or write Mr. Hart at 803 Dempster street, Evanston, Ill.

* * *

Would you kindly inform me thru the column of Horticultural Department if you know of any grower who makes a business of raising the cut leaved weeping birch, and what do you think of the Cypress tree for southeast Wisconsin? Do you consider it more profitable to grow the dwarf than the standard pear? Do they bear younger? From an advertiser for many years.

Wisconsin.

Dawson Bros.

You can secure the cut-leaf weeping birch of almost any important nursery company. I do not think the cypress tree hardy enough for planting in Southeast Wisconsin. By all means set out standard pear trees if you are to plant a commercial orchard, or a home orchard for that matter. If one is very crowded for room it would be all right to plant the dwarf trees. Yes, the dwarf trees bear somewhat earlier than the standard trees.

Shoo Fly Plant

Another remarkable botanical curiosity. Though quite odorless, flies will not remain in a room where it is grown. Bears very pretty blossoms; blooms summer and winter. Grows rapidly from seed. Extra large packet of specially selected seed, 15c packet, 3 for 40c, prepaid.

Weather Plant

NATURE'S WEATHER PROPHECY. By mysterious changes that take place, this remarkable plant accurately forecasts the weather many hours in advance. Will grow anywhere all the year around. An interesting house plant. Bears large, fragrant, pink, butterfly shape flowers. A very prolific bloomer. Seeds, 15c packet, 3 for 40c, postpaid.

Norman Ovri, Dept. A Pelican Rapids, Minn.

Ship your eggs safely in Sefton Anchor Brand Boxes



Every egg rides in a private padded cell. The walls of every cell are scientifically constructed of resilient fibreboard, corrugated straw paper and cushions of air chambers. Made by a method over which we control the patents.

We get eggs from the country every week in Anchor Brand Boxes—and the eggs always arrive in perfect condition. Out of 200 dozen received by one man in the last fifteen months, 2 eggs were broken. Out of 250 dozen received in the last year by another city consumer, only 3 eggs were broken.



Ask your paper jobber or drop us a card. We'll forward illustrated price list.

The Sefton Mfg. Co.

1329 W. 35th Street, Chicago, Ill.

Repetition

is what counts and that is where we are strong.

Year after year, our old customers give us repeat orders, claiming that each year our stock has improved. It is an easy matter to sell a customer once, but when you sell them the second and third time, it means simply this: We are giving them one hundred cents worth of value for every dollar received.

Do Not Take Chances

when you can buy real pedigreed, trap-nested stock of 200 to 249-egg strains. With present high prices on fowls and eggs, you need our birds.

THINK OF IT

Pullets as low as . \$1.00
 Yearlings as low as \$2.00
 Cockerels as low as \$3.00
 Cocks as low as . \$5.00

All birds sold under guarantee of money refunded if not satisfactory and you have your choice of

Barred, White or Buff Rocks Orpingtons

Wyandottes, Leghorns, Reds

Low in prices—high in quality. Send for catalog.

SUNNYSIDE POULTRY FARM

R. C. Blodgett Box 1002, Bristol, Vermont

Pape's Single Comb Black Minorcas

won A. P. A. Gold Medal for best Cockerel at the South Bend, Indiana, (1916) Live Stock Exposition, also Championship honors at the Tennessee and Texas State Fair.



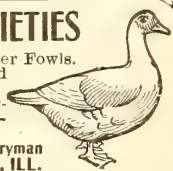
Am offering, massive-chest cockerels that will improve any flock and that will develop into prize winning cock birds. Beautiful show birds, selected breeders and layers at introductory prices.

Pape's Minorcas are acknowledged marvelous producers of large, white eggs, most profitable to grow, agreeable to tend in all climates. New four color catalog and assistance free.

CHARLES G. PAPE, Box B-74, Fort Wayne, Ind.
 Licensed Judge and Specialist

PFILE'S 65 VARIETIES

farm raised Land and Water Fowls. Eggs in season. Standard line of Incubators. Illustrated Catalog and "Growers Guide," 2c. An honest deal. Write today. HENRY PFILE, Farmer-Poultryman Box 600 FREEPORT, ILL.



GOLDEN WYANDOTTES

Won 7 prizes on 7 entries at the World's Fair, San Francisco, Cal., and established a 200-egg strain in 1908. I offer for sale 10 cocks, 15 hens, 200 cockerels and pullets, the best this strain ever produced. Write for circular.

J. S. PENNINGTON

Sec. Golden Wyandotte Club
 Box A Plainfield, Ill.



Score Card for Plymouth Rock Classes.

I READ with interest in the October number of the *National Barred Rock Journal* a paragraph which runs as follows:

"The future success of the Barred Plymouth Rocks does not lie with a few of the so-called big breeders, but with the farmer, the back-lot poultryman, and the small breeders."

Carrying out this idea, the proper place to start the reform is in the large poultry exhibitions, where the judging should be on such a plan as will insure to every exhibitor not only justice, but



Single Comb R. I. Red cockerel. Owned by Geo. H. Shoenhard, Box 17, Freeport, Ill.

a chance to thoroly understand the relative merits of the exhibits, to know why and how one specimen is inferior to another, so that the back lot poultryman and the farmer, when competing with the professional exhibitor, may win if he has the birds, and may be satisfied as to why he did not receive the premium, by intelligent comparison with the winning birds. This condition of affairs can only be brought about by the score-card system, and at the big Boston Show in Boston in 1917 arrangements should be made which will insure

judging which will bring about this result.

I have written to the secretary of the association on these lines, requesting that two of the best known judges be employed, and that I will guarantee to the society the amount necessary to pay for one of them, the society to select both; that the birds in the Plymouth Rock class are to be judged by the score-card, and the average of the cards to determine the awards.

I feel confident that unless some arrangements of this kind is soon put in force in this state that the state appropriations for poultry shows will be withdrawn, as comparison judging which permits the judge to say, "I awarded the prize so and so because I think so," and allowing the exhibitor the only explanation as to why he did not win to be that he did not win because the judge thought so and so, but why or on how many points no one knows, in many cases not even the judge himself, the old explanation of desiring to "keep in" in a large proportion of cases, unless confined to a written statement in the form of a score-card, determines the awards.

If the Barred Plymouth Rock breeders, big and little, take this matter up and insist on what is just and right, the matter can speedily be remedied.

Trusting you may be able to stir the Barred Plymouth Rock breeders up to the point of adopting this or some better plan which will promote larger and better exhibits.

Worcester, Mass. John B. Bowker.

From Western Oklahoma.

Being a lover of fine poultry and living out here where grains are cheap, perhaps my experience with poultry on a small scale and as a side line may prove interesting. These broods have had unlimited range.

In March I purchased two broody hens at fifty cents each and two sittings of White Plymouth Rock eggs at thirty-five cents per sitting. On April 18, I took off twenty-two chicks, one was droopy and I immediately killed it. I gave the chicks all to one hen and sold the broody hen to a neighbor for the same as I gave for her.

On June first my hen began to lay and laid thirteen eggs and became broody

You Can Laugh at Feed Bills

Equip your plant with

Apaco Poultry Feeders

and greatly increase your profits. Save 25% of the feed—eliminate the labor of feeding—increase egg-production. Guaranteed satisfactory. Price \$1 delivered—\$1.30 west of Mississippi River. Order yours now.

Norwich Automatic Air-Lock Fountains are frost-proof to 60 degrees below zero. Keep clean, fresh water before the birds at all times regardless of weather. Price \$3, F.O.B. New London, Conn.

Write for FREE poultry literature.

THE NORWICH AUTOMATIC FEEDER CO.
 21 Trumbull Street New London, Conn.



One Feed of Sprouted Oats at Noon — 50% More Eggs

Get the Facts About Our Grain Sprouter. Learn What It Has Done for Your Brother Poultry Raisers and What We Guarantee It for You

MAKE three bushels of fresh, green, tempting feed from one bushel of oats, wheat or rye. Turn loafing hens into money-making egg producers—have eggs to sell when prices are highest—get fertile eggs for spring hatching—all at a big saving in feed cost. Every poultry raiser should have a "Successful" Sprouter. Saves its cost in a few days' feeding and then keeps on saving money and doubling up your profits for a lifetime service.

Just what's needed in fall and winter to keep hens laying and needed again in the spring to make chicks grow into lively profit-producing birds. Write at once for complete 1917 offer. Sold on trial and pays for itself before trial runs out.

"SUCCESSFUL"

Grain Sprouter

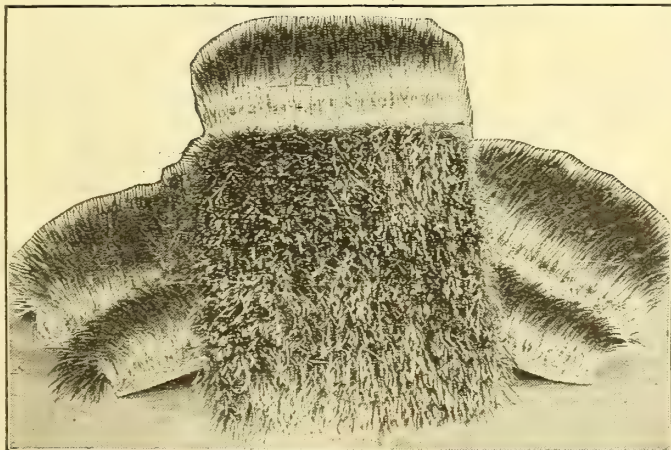
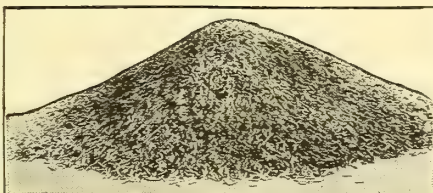
Practically All Steel —Made in Sections

Double steel walls—metal trays. There is nothing else like the "Successful" Sprouter. It's a brand new idea. Cannot be compared to wooden sprouters. It is warp proof—shrink proof—swell proof—nothing in it to rot—food cannot mold.

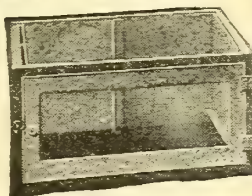
Made with glass doors. Each section a separate compartment. Start with just enough sections for your needs and add more as you need them.

Here is a money maker that proves its worth right at the

20 pounds raw (3 pecks) oats as shown above makes 70 pounds of Sprouted oats as shown below in the "Successful" Sprouter. This in one week's time—the best green egg-making feed obtainable.



SPROUTED OATS



Read These Letters From Owners

Brandon, Vt., March 18th, 1916
Des Moines Incubator Co.

I wish to state that the oat sprouter I purchased from you some time ago is one of the best investments I ever made. It works to perfection and its operation is very simple. The sprouter has furnished my poultry with an abundance of green oats throughout the winter. J. S. Thompson

Is All We Claim For It and Then It Is "Some More"

Madrid, N. Y., May 23rd, 1916
Des Moines Incubator Co.

Last February I ordered a No. 4 Sprouter from your Company and has been in steady use since we received it and we still intend running it longer. It is all you claim for it and then it is "some more." In fact we are well satisfied with it. It is so handy to operate and has nothing to get out of order. I can and will recommend the Des Moines Sprouter for cheap Green Feed for Hens. Ray E. Henry.



start. It has increased egg yields 50 per cent—in some localities more. Takes only 15 minutes a day of your time. Sprouts oats in 24 hours and then grows an inch of crisp green sprouts every day. One feeding of sprouted oats at noon each day is all that's needed to increase the egg yield. And at the same time you cut your feed cost one-third and settle your green feed problem once and for all. Write for full details.

Write Your Name in the Coupon or on a Postal and Mail Today for Circular and 1917 Offer

We could show you scores of more letters like these, but why not show you the "Successful" Sprouter itself and let you see how it can save money and make money for you every day you use it. Famous booklet, "Proper Care and Feeding of Little Chicks, Ducks, Geese and Turkeys," 10 cents.

Write Today

Des Moines Incubator Co.
561 Third Street
Des Moines Iowa

Des Moines Incubator Company

561 Third St.
Des Moines, Ia.

Please send me circulars and your 1917 offer on the "Successful" Grain Sprouter.

Name _____

Address _____

City _____ State _____



Light Sussex Red Sussex

"The Colder the Day
The Better They Lay"

America's foremost winners. Madison Square Garden, Chicago Coliseum, Pittsburgh, Buffalo and New York State Fair. Demand is exceedingly heavy this fall. Little or no stock will be left for Spring sale. If you wish Houstonia Strain, book your order at once for immediate or Spring delivery.

Houstonia Poultry Farm
Dept. A South Charleston, O.

again. I bought another sitting of eggs for her at the same price and in July she hatched fifteen chicks out of sixteen eggs. On August 14 she began laying again and laid seventeen eggs and then became broody again and at this writing (September 21) shows promise of another good hatch.

On August 21, I sold my 21 chicks, consisting of nine pullets at seventy-five cents each and twelve cockerels at one dollar each, for a total of \$18.75. I now have a stock of fourteen chicks on hand, which at 20 cents each would amount to \$2.80, one hen valued at fifty cents and one hen sold for fifty cents, total \$22.55.

My expenses were as follows:

Two hens, 50 cents each.....	\$1.00
Three sittings of eggs, 35 cents each.....	1.05
Prepared chick food, louse powder.....	.55
Kaffir, wheat and maize.....	1.00
Total,	\$3.60

Besides the pleasure, I figure a gain of \$18.95.

Laverne, Okla. L. V. Mahaffey.

Weight of Eggs from Baker's Standpoint.

I have been reading the AMERICAN POULTRY JOURNAL with increasing interest for nineteen years, always finding good and interesting articles on some subject. Now my hobby is in the balance of justice, the size of eggs, and should the pen of Bro. M. C. Wilson's Leghorns land on my plant, he will hear from me about the eggs they lay. I am pleased to deal with the commercial end of this contest, using no names or breeds, as this is not a breed advertising contest but a contest of justice, to place credit where real credit belongs.

Most certainly the hens laying the largest number of pounds and ounces in a contest should be favored beyond the egg number class. Being connected with and having studied the baking business, I will present the commercial value of large eggs versus small eggs to the baker.

A small egg or one hundred small eggs will not whip up the quantity or quality of cake dough or batter that a ten to fifteen per cent less number of large eggs will. The large eggs whip a stiffer air-cell or wall and the sponge or dough is therefore lighter and of much greater quantity. That is, one hundred eggs of each kind beaten the same, the amount of finished product will be greatly exceeded by the large eggs, and even in creaming, the better and larger the eggs, the better and more product, the sugar and butter work up better,—quality of eggs being the same, of course, from strong vigorous hens.

The number of eggs required to do a batch of work is greatly in favor of the large eggs. Six large eggs will easily do the work of seven or eight small or medium sized ones, or ninety large eggs to one hundred and fifteen small eggs.

There is also the particular baker who discriminates. I recall a German baker from Ohio who was with me a few years ago. He was always particular about his mixing and always demanded that I get the best and largest eggs for Sunday cakes and fancy baking. I cannot say that cakes made from large eggs are richer, but the whites and yolks always whip up to a nicer creaming and produce more body to the finer grained product.

I have bred several breeds of fancy poultry, not including Bantams, and the

Eggs 12c a Dozen

Simply sprinkle 10 drops of "OCULUM" (the New Scientific Egg Producer) on each pound of feed and your hens will shell out the eggs.

"OCULUM" users buy it by the gallon because of its quick and certain results.

"My 800 fowls increased from 30 to 398 eggs a day after feeding "OCULUM" 16 days.

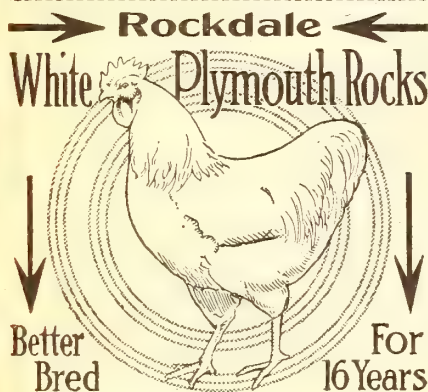
I buy it in gallons.

GEO. SISCO,
Mountain View, N. J.

Send dime for a trial bottle (240 feeds) and learn how to make your hens lay more. Address—

"OCULUM" Box B,
Salem, Va.

Booklet Free. Handled by Dealers.



White Plymouth Rocks
Better Bred For 16 Years

Grand quality in Cockerels and Pullets.
Priced right. Satisfaction guaranteed.

DEYOE'S • Station 1 • DODGEVILLE, WIS.

BEAN'S Harvard Reds

Better than ever. Come
to headquarters for your

Show Birds

Full value for your money or
your money back.

I. W. BEAN 324 POND STREET,
SOUTH BRAintree, MASS.



HERE IT IS! THE LEG BAND you have been looking for.
Numbers up to 1000; will not scratch off. Made of aluminum and celluloid. All colors, \$2 a hundred or 3c each. Double numbers if desired. Send 2c for trial band and catalog showing pigeon and chick bands.
M. M. BROURTON 231 Salem St. WAKEFIELD, MASS.

BUTTERCUPS

Winners of Best Display at New York State Fair, 1916, where Buttercups were the second largest class entered. There were 14 pens entered. I won 1st, 2nd 3rd. Do you want show birds? Cockerels and pullets now ready, prices right. Will sell a few hens from my 1916 breeding pens. Mention A. P. J.
Mrs. Hattie D. Reed, Chestnut Terrace, Marcellus, N. Y.

PARTRIDGE ROCKS

Show and breeding stock for sale. Prices right.
No Sunday business.

Meadow Lawn Poultry Yards, Dept. C. D., Sand Creek, Mich.

CURTISS CLOVER

ECONOMY You can attain the highest form of ECONOMY in your feeding by the use of GREEN CURED FINE-CUT CLOVER and at the same time INCREASE your EGG YIELD. 75 per cent heads and leaves; 1/8 in. lengths, thoroughly sliced, at a 20% reduction in cost.

Baby Dux and Choice Breeders
Yearlings and young. Prices right.

BABY CHIX—3 Weeks Notice
For soft meat roasters and winter broilers.

Eggs for Hatching
Leghorns, Wyandottes, Rox and Reds, Pekin and Indian Runners and White African Guineas. 32 years in poultry business.
W. R. Curtiss Co., Niagara Farm, Ransomville, N. Y.

For 30 Days

just to get you acquainted with our quality birds, we will sell you

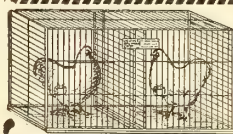
S. C. ANCONAS or W. WYANDOTTES
at the following low prices. Pullets—\$2.00 and up.
Cockerels—\$2.25 and up.

LONE OAK POULTRY YARDS, E. B. Peck, BATAVIA, N. Y.

Wisconsin State Champions

They again proved their class at the Wisconsin State Fair, winning 1st cockerel, hen and pullet in very strong competition. Have won 1st hen and pullet for two, and 1st cockerel for three successive years (besides many other prizes.) 1st prize cockerel, a high grade bird, for sale. Other show birds and utility stock for sale. Try us.

Novak Poultry Farm Route 1, Racine, Wis.



COOPS

Clean, handy, vermin-proof, galvanized wire electric welded. Standard at all exhibits. Shipped by parcel post. Outfits rented to bench shows.

KEIPPER COLLAPSIBLE COOPS
Write for illustrated catalog and attractive prices.
KEIPPER COOPING CO., 1401 First St. Milwaukee, Wis.



"SIGNET" Aluminum Leg Band

Adjustable, lightest, neatest, best-stays on. Price, 12-15c; 25-20c; 50-35c; 100-60c.
"Silver Tip" Pliers, 10c; 3c extra for postage.

W. J. BALL SALEM, OHIO

"America's Best"

LIGHT BRAHMAS

Winners of five blues at Madison Sq. Show, January, 1916. Stock for Sale.

BALCH & BROWN MANCHESTER, CONN.

Silver Wyandottes

That have won for our customers at Chicago, New York and Boston. If the best is wanted, write to J. F. Van Alstyne -:- Castleton, New York

Mention AMERICAN POULTRY JOURNAL when writing to advertisers.

largest eggs invariably bring a better price and demand than small eggs. The loss by shell is greatly in favor of the larger eggs. This is noticeable when eggs are weighed and when using one hundred to a thousand eggs per day, the size of the egg content cuts some figure. For when it is easily seen that we can save from twelve to eighteen eggs to the hundred by using large eggs, when eggs are bought by the dozen as at present, of course the hens that produce the large eggs have it all over the small egg hens and should be given the credit due them. Just as the salesman who sells a \$115.00 bill of goods gets more commission than one who sells \$90.00 worth. Money is what counts on both sides of the ledger. The net profit at the end of the year is what every business man looks for.

Some claim that the hen that gives up the small egg does so more often, but this is not always so. I have in mind a hen under my knowledge, twenty months old, that has laid in record class since she was four months and twenty-one days old. Her six eggs last week weighed thirteen and one-half ounces. Seven of her eggs will weigh fifteen and three-fourths ounces or approximately a pound. She weighs six pounds and two ounces, is now in full moult, eggs always beautiful outside and perfection inside.

Are eggs of a small size equal to hers, or is the hen that lays the small egg equal to her? No, not in cash or looks, but the cash is where I base my views; from the egg's price and the baked product for the table. Which, my dear sir, would you prefer as a gift or purchase? But this hen is not the only hen that goes up to her owner's bank with two and one-fourth ounce eggs. The grand poultry industry is full of such commercial producers. Should hens that lay a few more small eggs be classed with hens that lay as this industrious producer provides for her owner? Not as we can notice, for these belong to the discriminating class.

Should any International Egg Laying Contest put a pen of hens that lay eggs of two and one-fourth ounces, or one thousand eggs of two thousand, two hundred and fifty ounces, against hens that lay eggs of one and one-half ounces or one thousand two hundred eggs of one thousand eight hundred ounces, and not give the former the ribbon and the credit, why something must be wrong "up the creek," if they did not. Which is worth the most, seven eggs that weigh fifteen and three-fourth ounces or eight eggs that weigh twelve ounces?

The way to get at the value of the hen or her eggs is by comparison, just as pointed out in our Standard. To do this we must compare the relative production of the hens. 'Nuf sed.

Shelby, N. C. O. F. Martin.

PULLETS

March hatched pullets 6 to 10 weeks old from Leghorns, Rocks, Reds, Orpingtons, Minorcas, Anconas, Campines, Wyandottes, \$10.00 per dozen and up. Pekin Ducks and Supplies.

Circular free. Stamps appreciated.

HOUCK HATCHERIES & BREEDING COMPANY
Box 72, Tiffin, Ohio



RAISE BELGIAN HARES

FOR US. Big profits. We furnish stock and pay you \$2.00 each, also cubs, mink, skunk, fox, squirrel, frogs, etc. 2 booklets and contract for dime. None free. Address THE BELGIAN HARE, 26 Main St., Holmes Park, Mo.

BOOK YOUR ORDERS NOW

for

S. C. W. Leghorn BABY CHICKS

from the largest and best equipped Leghorn Plant in the N. E. States

From a hatching capacity of less than 3,000 eggs six years ago we have grown to over 75,000. We have always specialized in S. C. W. Leghorns, and today there are thousands of poultrymen breeding our strain of birds exclusively. Our Leghorn chicks are all of one strain and breeding,—no English blood in our stock, as we wish to sell good looking, good sized stock that lays good eggs.

Our plant is organized on a trap-nest basis, and we know of no other farm in the country that is doing more consistent work on these lines than we are. The coming season we shall be trapping more birds than any three of the leading contests, and the good work we are doing is bound to tell in the quality of the chicks we are selling. All our pens the coming season will be headed by males bred on high producing lines, and we can promise you better layers than ever before.

The Secret of Our Success

we attribute not to excessive advertising but to the real satisfaction our customers have been receiving from our stock. They are nearly all successful, because our chicks have the breeding and stamina back of them. The Lord Farms' strain of Leghorns is bred to "live and lay" and we mean "exactly what we say."

Buy Your February, March and April Chicks Now

If you wait until just about the time you need them you will be unable to get stock from us, as the demand for our chicks is 50% to 100% more than we can produce. Lay your plans now for 1917 and get started with a good strain of thrifty, good looking, pure bred American Leghorns. Get a strain that not only lays large quantities of eggs, but good sized white eggs, that will bring the top prices in the market. We can take your order for 25 or 10,000 chicks.

PRICES OF BABY CHICKS

25—49 chicks	17c	100—499 chicks	15c
50—99 chicks	16c	500—999 chicks	14½c
1,000 or more chicks		14c	

Sit right down now while you are reading this advertisement and tell us how many chicks you need for next spring's delivery, or at least write us for our 104-page catalog, free. This is a different kind of catalog than any you have probably ever read. It is a book of genuine information and written by a practical man of over twenty-five years' experience in the poultry business.

If you are going to breed your own chicks next year, buy our high record bred cockerels. Every one of these is bred from 200 to 288-egg stock; prices from \$5.00 up. We have a few big, thrifty, well grown cockerels of the same breeding, but a little off color, for \$3.00 each. We also have 75 two-year-old cock birds at only \$3.00 and \$5.00.

Every cockerel we ship is sold subject to your approval, or we will refund your money and pay the return express charges.

If you are looking for the utmost satisfaction in your poultry business you cannot make any mistake in trading with The Lord Farms. Address either

The Lord Farms - or - The Everlay Farm
BOX 240-M, METHUEN, MASS.

WHITE

Birds with records of 255. This is the strain that furnishes birds for Storrs' Connecticut contest, also for their experimental purposes.

M. W. POTTER

PEDIGREED

A Grand
Total Pen
Record of
2083

LEGHORNS

Breeding season is at hand. Right now is the time for you to buy birds to improve your flock. My prices will suit. Don't delay—write me today.

LEEDS, MASS.

SPRAGUE'S Reds

Cocks, Cockerels and Pullets

All top-notchers at reasonable prices. Satisfaction guaranteed or money back. Oldest breeder of Reds in the west. Pedigreed Airedale pups for sale.

P. H. SPRAGUE

MAYWOOD, ILL.

Sowing Rye in Runs.

I have read articles for and against feeding rye to poultry and as I have had some experience the past year with feeding rye, would like to pass it along.

My yards are divided into four pens of four rods wide by eight rods long. These I have cross-fenced so as to change from one field to another. Last fall I sowed the runs to rye using outside range for my birds until the rye got started, expecting to only use it for late green food. I turned a flock of sixty hens and two hundred and fifty nearly matured pullets and cockerels on this October 15, alternating every few days from one field to the other. They had access to these four fields all winter long. By January first I had my birds sold down to seventy-five hens and pullets. This spring they again had the rye to run on, but the rye kept gaining and headed out, in fact was such a good piece that my neighbor said I ought to cut it. I decided to let it stand and ripen on the ground and allow the hens and young chicks to work it down. I shut off on the ration, feeding only bran and meat scrap and with the aid of these



Front view of the Read Poultry Farm, Watervliet, N. Y., at Stop 27 Troy-Schenectady Road, where high official pedigree S. C. White Leghorns, White Wyandottes and S. C. Rhode Island Reds are bred.

two foods, the rye has kept the seventy-five hens and from two hundred and seventy-five to three hundred chicks all summer. They have also scratched enough rye into the ground so that it has come up this fall, making plenty of

green food for the fall and winter. I have never had a flock lay better, never had better fertility and the flock young and old have kept in the best of health and are today in the pink of condition. Lewis, Iowa. M. G. Weaver.

U. R. Fishel's White Plymouth Rocks have been bred in line for nearly thirty years and have proven their superiority as a fancy fowl and as a utility fowl. The U. R. Fishel

White Plymouth Rocks

have not only won at Chicago but at *six International Expositions* and *twelve State Expositions* and the leading poultry shows thruout America. Our winning for 1916 added to our previous winnings is *a record unequalled by any breeder.*

Several thousand farm reared, strong, husky birds to select from. Price list free—send for copy.

Eggs for Hatching.

Baby Chicks.

U. R. FISHEL - Box A - HOPE, INDIANA



"SUNLIGHT" POULTRY FARM S.C.W. LEGHORNS

Best Known Layers. Young Strain.

S.C. White Leghorn Baby Chicks and Eggs for 1917

If you have not placed your order for chicks and eggs for delivery in the spring, it will pay you to place your order now while the prices are low. After the 1st of January, 1917, my prices will be higher on account of high priced feeds. All who will place their orders this month for chicks and eggs can have them at prices the same as last season.

EGGS FOR HATCHING

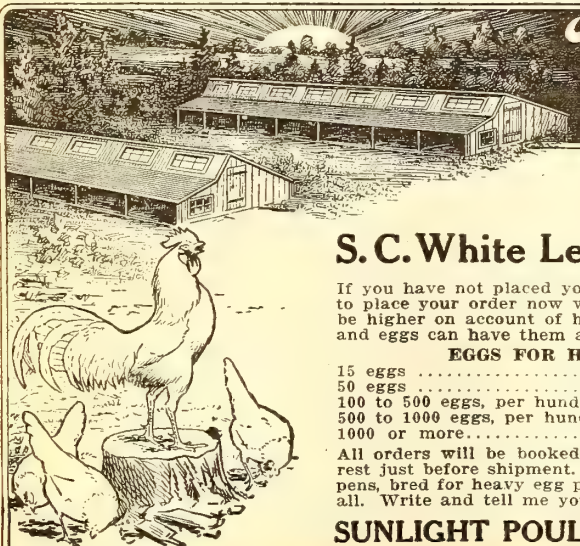
15 eggs	\$1.50
50 eggs	3.50
100 to 500 eggs, per hundred	6.50
500 to 1000 eggs, per hundred	6.00
1000 or more	5.50

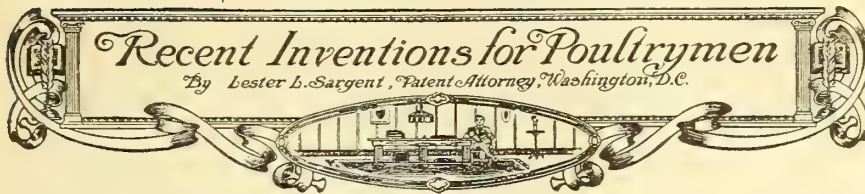
BABY CHICKS

25 to 50 chicks	14c
50 to 100 chicks	13c
100 to 500 chicks	12c
500 to 1000 chicks	11½c
1000 or more chicks	11c

All orders will be booked for future delivery, with one-fourth the full amount of the order and rest just before shipment. Let me furnish you with some excellent cockerels, cock birds, trios and pens, bred for heavy egg production. Be wise and place your order now. Satisfaction guaranteed to all. Write and tell me your wants, please. My new catalog will be ready to mail out this month.

SUNLIGHT POULTRY FARM E. N. LEMON, Owner Lynchburg, Ohio

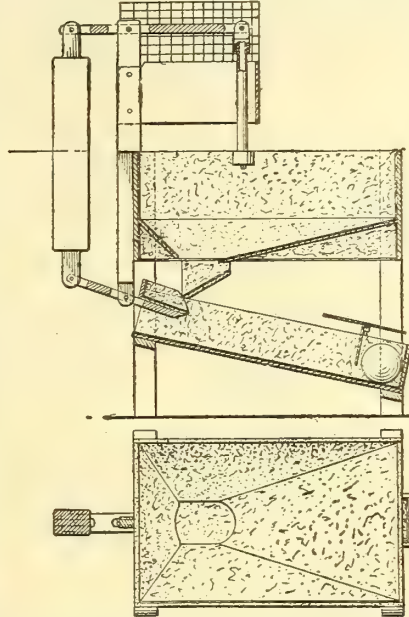




CHARLES WYCKEART of Stockton, Cal., has invented an exercising chicken feeder constructed along different lines from most other feeders of the exerciser type. The feed or grain is fed from the mouth of an inverted hopper down an inclined chute over which is a platform having a feeding opening. Narrow slats extend across this opening, so that the chickens must scratch to get their meals. Beyond this opening is a roller made out of spaced bars which project above the feeding platform sufficiently to provide a kind of treadmill for the chicken to rotate when it scratches against the bar. A belt connects this roller with another roller within the path of the feed at the mouth of the hopper. A pivoted agitated finger rests on flanges of this inner roller so that as the roller turns, the finger is moved up and down and prevents clogging of the feed. The more vigorously the chicken scratches the more feed there

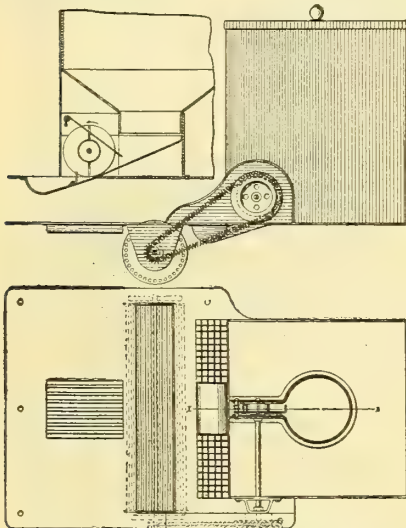
is forthcoming. The patent is No. 1,199,328.

A Hen's Nest, invented by Joel O. Tuttle, of Richland, Oregon, traps the egg as soon as it is laid, thus breaking up



Hen's Nest, patented by Joel O. Tuttle, Richland, Oregon. Patent No. 1,199,944.

the egg eating habit if hens have acquired it, and also disturbs the hen so as to cause her to leave the nest immediately upon laying the egg, thereby discouraging setting. The nest is provided with an opening and chute large enough to let the egg roll thru on to a pivoted lever padded at one end to guide the egg into an inclined receptacle and attached at the other end to a counter weight. To the upper end of this counter weight, which is of cylindrical form, is another pivoted lever. From the end of this latter pivoted lever there hangs a pendulum-like device. This pendulum



Chicken Feeder, patented by C. Wyckart, Stockton, Cal. Patent No. 1,199,328.

WHITE LEGHORNS 258 and 282 OFFICIAL RECORDS	READ'S Pedigreed Leghorns, Reds and Wyandottes High Rated Cocks and Cockerels Hens and Pullets Hatching Eggs For Sale Be sure to write us for Mating list before placing orders, stating your wants fully. Prices reasonable. WRITE TODAY THE READ POULTRY FARM Watervliet, N.Y.	WHITE LEGHORNS 272 and 281 READ'S RECORDS WH. WY. ANDOTTES 274 and 282 OFFICIAL RECORDS
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PUBLICITY DEPARTMENT,
Duval County Commissioners,
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White Langshans

The ideal bird for farmer and fancier

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R. H. MOORE, R. 1, NELLIE, OHIO

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S.C. WHITE LEGHORNS

Sweepstakes Champions

at the Illinois State Fair, September, 1916, and the following winnings: 1st old pen, 1st cock, 1st and 2nd pullet, 1st young pen, 1st, 2nd and 4th hen, 4th and 5th cockerel. My birds won FIRST PRIZES at the CHICAGO COLISEUM, DECEMBER, 1915, and the GREATER CHICAGO SHOW, JANUARY, 1916. These winnings prove the standard qualifications of the Meadow Lark Farm strain. I can supply you with this quality exhibition stock at very reasonable prices. Satisfaction guaranteed. Write today.

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Premier Partridge Wyandottes

AMERICA'S PROVEN CHAMPIONS

Winners of the highest honors at New York, Chicago and Boston for the past seven years. They win for us as well as in the hands of our customers, everywhere. The highest class of exhibition and breeding stock for sale at all times. Send for illustrated catalog. It's free.

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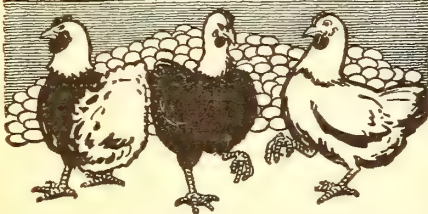
HILL Magic Brooder

Capacity, 200 to 300 Chicks; Price, \$16.50

Both guaranteed to hold even heat over night without attention, regardless of weather changes; to be satisfactory to purchaser, or price and freight refunded on request, after 30 days' trial.

Descriptive booklet, valuable to poultrymen, FREE. Shows how to build brooder houses and other poultry appliances. Write now.

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1,336 Eggs from 8 Pullets!

in eight and a half months. Yes, that's some record. But then these were industrious hens. Their owner is a practical, wide-awake farmer. Knows his business. Got most of his poultry hints from The Farm Journal, he says. Considers it has the best chicken-raising department in the country.

But The Farm Journal is just as good in every one of its many interesting departments! A monthly farm magazine with reading for the whole family. Full of gumption, full of sunshine. Seasonable topics, household helps, articles on the business of farming. Goes into nearly 1,000,000 homes. Started going forty years ago. \$1 for 5 years. Money back any time. Ask for free sample and your Free copy of 1917 Poultry Richard Almanac.

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Reflecting in Every Way
the Standard Idea of what a good bird should be. That is the secret of why we satisfy our customers. The bird you get from "Superior Strain"

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will confirm with your idea of what a perfect bird should be. Write for prices, stating if you want exhibition or breeding stock. The best for the least.

GILBERT POULTRY FARM
Whittier Road Haverhill, Massachusetts

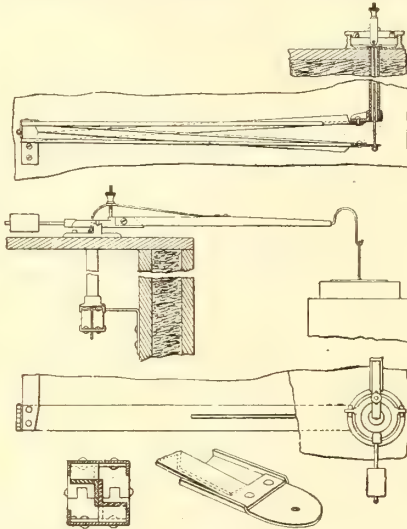
Silver Laced Wyandottes

From blue ribbon winners at Cleveland, 1916.
Ewing & Romich Lock Box 393 Creston, Ohio

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is raised a little above the hen until the egg is laid, and then the weight of the egg on the padded lower lever overbalances the mechanism so as to lower the pendulum and thus bump the hen gently to cause her to go. The lower end of this pendulum has a wick by which the hen may be marked and identified where it is desired to keep a record of hens that are laying. The patent is No. 1,199,944.

An Improvement in Thermostats, invented by Elmer P. Alexander, Yeagertown, Penn., has cross metal bars which by their diagonal arrangement and attachment to the main bars of the thermostat render it extremely sensitive to the slightest variation in temperature.



Thermostat, patented by E. P. Alexander, Yeagertown, Pa. Patent No. 1,199,225.

This, of course, greatly increases the value of the thermostat as a temperature controller in incubators and brooders where sensitiveness to temperature changes and is most important. The patent is No. 1,199,225.

An Egg Tester, invented by Edward W. Johnson, of Huntington, West Virginia, is designed particularly for testing eggs for incubator use. It is adapted to be moved up to the incubator from which the egg tray can be quickly withdrawn, the eggs tested or candled and the tray is again put back in the incubator chamber before their temperature has been materially lowered. The device is a portable cabinet having an open top and a movable door at one end, a V-shaped support extends lengthwise of the cabinet and to this the mirrors are attached, while at the bottom beneath the incandescent bulbs extends a strip of corrugated glass. Removably arranged in the top of the cabinet is a sheet of ground glass. This is used to soften the light so as to make the task of testing the eggs less trying to the eyes of the operator. The mirrors strengthen the light and increase the efficiency of the candler. The patent is No. 1,200,359, and a fourth interest in it has been acquired by James K. Oney, also of Huntington, West Virginia.

WHITECREST FARM

S. C. Wh. Leghorns White Wyandottes

Winners of best display twelve times at Cleveland.
Stock for sale. Circular free.

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NATIONAL Gets Big Hatches

Peter Kilpatrick, Nazareth Pa., writes, "Have made better hatches than anyone here." **Money cannot buy greater hatching value.** Hot water heat—double wall—dead air space—bestos lining—self regulating—ventilating—double glass doors—safety lamp—egg tester. **No extras to buy—easy to operate—will not warp or shrink.** Strongest, most durable Incubator made.



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Take no chances. The National is built on U.S. Government specifications. A proven cold weather hatcher. The World's Greatest Incubator Bargain. Send postal today for Free 1917 Catalog And Poultry Book—worth dollars to every poultry raiser—or order direct from this ad and save time. Incubator and brooder both prepaid \$12.50. Comes set up ready to run, with book of instructions. You take no risk, satisfaction guaranteed or money refunded. Don't delay. Send for Poultry Book today sure.

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White Wyandottes

gave further proof of their real quality at the late "Syracuse," New York State Fair. It was a wonderful class; the strongest that ever exhibited there. Note our big win below. Exhibition or breeding stock at prices that are very low, quality considered. Send for our Mating List and prices.

1, 2, 3, 4 Pullet
2 Cockerel
2, 3 Pens

Also First Farm or Breeding Flock over all American class varieties: \$15 Sweepstakes special, best flock, all varieties: 51 flocks; 510 birds entered.

ARTHUR G. BOUCK,
Manager

FERNBROOK FARM

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Muller Sectional Brooder Coops

and Runways
Most convenient, durable and attractive. All sections secured by galvanized steel rods passing through screw eyes, providing a rigid joint and a perfect hinge. Can be assembled or taken down in two minutes, and no tools are required. Write for our free Booklet.
Franklyn R. Muller & Co., 2 Madison Av., Waukegan, Ill.

Bargains in

Leghorns

Having decided to devote our time to Barred Rox and Lt. Brahmas, will sell our S. C. W. Leghorns at a sacrifice.

W. H. WARD - - - NICKERSON, KANS.

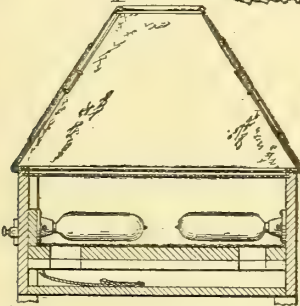
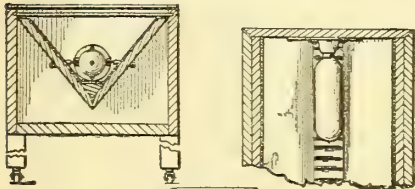
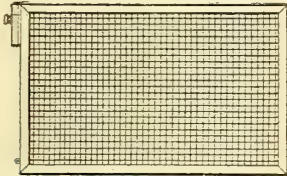
S. C. BROWN LEGHORNS Partridge Plym. Rocks

Chicago winners at farmers prices.

E. A. Crotser, Box 12, Fulton, Mich.

A Brooder, the invention of Perry S. Martin, Broadway, Virginia, has a hoop surrounding the deflector and spaced from it. This hoop may be raised and lowered to regulate the temperature in the vicinity of the brooder. It makes possible the distribution of the heat from the brooder over a comparatively large area so that a considerable colony of chicks may be comfortably housed and safely brooded. The hoop is regulated independently of the brooder heat deflector. The patent is No. 1,200,287.

A Collapsible Poultry Coop, invented by Arthur J. Minoprio, of Stonewall, Mississippi, has been assigned to H. C. Dear, of Enterprise, Mississippi. In collapsing the coop, hinged end doors are



Egg Tester, patented by E. W. Johnson, Huntington, W. Va. Patent No. 1,200,359.

swung inward, hinged top panels are folded down, hinged bottom panels are folded upward, and the sides of the coop collapse toward each other, thus providing a compact frame that can be easily shipped. The patent is No. 1,201,216.

A Trap Nest, of the simplest type, invented by Irving C. Lewis, Ulysses, Pa., has a circular entrance for the hen, a pivoted door projecting a little below the top of this entrance, a wire latch normally holding the door open, and a false or pivoted floor connected by an arm to the spring latch. When the hen enters and her weight comes on this floor, the latch is tripped and the door sprung to closed position. The trap must, of course, be re-set by hand, as there is no automatic re-setting mechanism. The patent is No. 1,199,473.

S. C. WHITE LEGHORNS TRAPNESTED

Cockerels from hens with egg record of 200 to 265 at a sacrifice. One of these cockerels will improve your stock next season. Orders for eggs and baby chicks booked now.

CARL J. JENSEN North Ave. WAUKEGAN, ILL.

"RAINBOW" PARTRIDGE ROCKS

The Recognized Leaders

THE ROCKWOOD FARM, Box 1110, NORWALK, O.



1st Cock, Chicago Coliseum, 1915

SWEEPSTAKE CHAMPIONS

Chicago Coliseum, Dec., 1915

Cocks, 1-3 Young Pens, 1
Cockerels, 1-4 Old Pens, 2-3
The Coliseum Sweepstake Cup

Total points—66

Nearest competitor—43

Exhibited by me or my customers, my long bodied, heavily saddled, full tailed Leghorns won at Indiana Inter-State Fair, September, 1916, Trenton, N. J., Fair and the Memphis, Tenn., Fair.

"**THE** correct length and slope of back, with undoubtedly the best head points on cockerels I have ever found on the same number of birds in a breeder's yard."

—JUDGE THEO. HEWES

Read this

Writing about the Leghorns on my 15-acre poultry plant in the November issue of Everybodys Poultry Magazine, Judge Theo. Hewes, one of the five best poultry judges on this continent, said: "The young birds on this farm were a marvel to me. They were bred on free range. There was not the slightest tinge of brass to be found on any bird on this range. Another feature of this strain is the length of leg on both males and females and the correct length and slope to backs, with undoubtedly the best head points on cockerels that I have ever found on the same number of birds in any breeder's yard."

I AM NOW OFFERING

1000 S.C.W. Leghorn Ckls.

at \$2.50, \$5.00, \$7.50, \$10.00 and up

From the same matings that produced these winners. Mind you, these cockerels are bred from my famous Chicago Coliseum blue ribbon winners of the last three years. Heavy laying is a character inherited thru the sire. Pullets bred from my cockerels mature early. I have affidavits to prove that pullets bred from my males lay at 4 months of age. Read the above excerpts from Judge Hewes' article. What more satisfactory evidence could I submit? I have the stock—everyone concedes this. I satisfy my customers. Send for testimonials. I quote rock-bottom prices. Where else could you buy into an established strain more cheaply? Tell me your wants and I'll guarantee to fill them.

Silver Campines

Three times winners Sweepstake
Championship, Coliseum, Chicago

Exhibited by my customers, my Green Sheen Strain Silver Campines this fall won at The New York State Fair, Syracuse, and at Hagerstown, Md. My strain is especially noted for beautiful color and the females are unsurpassed as layers of big, white eggs.

AN UNSOLICITED LETTER.

Chillicothe, Mo., November 4, 1916.
Have been getting eggs from some of the pullets since they were five months old. They are truly beautiful birds, well built, happy and genuine hustlers from morning till night. More than pleased with my purchase from you. Rest assured that the name "Hering's Green Sheen Strain" will be printed on my business cards and that I will be pleased to refer prospective customers to you.

H. W. NEWLIN.

Instructive Literature Free

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SOUTH BEND, IND.



Coliseum Champions

NOTICE!



3d Hen, Boston, 1916

By placing a part of your order with me and a part with another breeder you can intelligently compare the values you obtain and consequently decide better with whom to trade in future. There are some marvelous values left in my \$5.00 and \$10.00 cockerels that you cannot duplicate elsewhere. By placing your order at once I can save you just the bird you want.

Willow Tree Poultry Farm

Beverly Farms,
Mass.

H. P.
McKean, Jr.

H. P.
McKean, Jr.

Pullets and Cockerels



March and April hatched, \$15 to \$18 a dozen, best stock and laying strain; a good cockerel with each dozen for \$1 extra. 12 May hatched pullets and a cockerel for \$15, except in Orpingtons where 12 fine pullets and a cockerel is \$18. Rocks, Reds, Leghorns, Brahmas, Wyandottes, Orpingtons, Anconas, Campines, Buttercups, Minorcas and 20 other breeds. Catalogue Free. Stamps appreciated.

Nabob Poultry Co. Gambier, Ohio

SMITH'S

S. C. Buff Leghorns

I Have No Other Breeds

The Largest Breeder of Buffs in the World

Winners at fifteen of the big shows and the world's best winter layers. I have nearly 8000 young birds for sale. I can please you and sell you cheaper than small breeders with small flocks.

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Regal White Wyandottes and White Leghorns

1st Wyandotte cockerel at Illinois State Show, 1916. Young Australian and Danish trap nest heavy layers. Baby chicks and hatching eggs in season. Book your order now. Correspondence solicited.

Wyandotte and Leghorn Cockerels For Sale
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GEO. P. SANFORD & SONS, Props., formerly
State Road, Wheaton, Ill.

ADJUSTABLE CLINCH BANDS



None better made. 25-20c; 50-35c; 100-65c; 200, \$1.00; 500, \$2.25. Numbered as desired. Also colored.

CELLULOID
RINGLETS

25-25c; 50-40c; 100-70c; 200, \$1.25. Mention breed.

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BOX 506, MONTAGUE, MASS.

BRED TO LAY

S. C. White Leghorns
White Wyandottes

Cockerels, large-type pullets sold out. 200 to 240 eggs strains from imported Barron stock. Money refunded if not satisfied. Eggs and chicks in season.

W. L. MORGAN
West Avenue, Burlington, Iowa

WHITE PLYMOUTH ROCKS

A few extra good exhibition birds for sale for fall and winter shows. Special Sale of Grand Yearling Hens, Cocks and Cockerels.

Walter P. Nelson R 21 Bayonne, N. J.



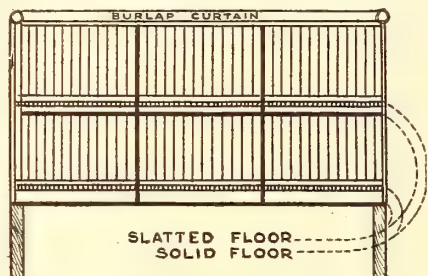
Monthly Prize Contest Department

The American Poultry Journal offers the following prizes monthly for the two best articles received on or before the fifteenth day of each month: For the best article, a prize of Three (\$3.00) Dollars will be awarded; for the second best article, a prize of Two (\$2.00) Dollars will be given. Articles intended for the Contest must be written on one side of the paper only and should not contain less than 1,000 nor more than 2,000 words. The articles may be written on any subject pertaining to poultry culture. We reserve the right to retain all articles submitted and to publish such as we deem worthy of space. Send all articles plainly marked to Contest Editor, American Poultry Journal, Lock Box 4, Silver Lake, Mass.

CAPONIZING THE SURPLUS
COCKERELS.First Prize Article American Poultry
Journal's Monthly Contest.

By JULIUS L. SCHMIDT, St. Cloud, Minn.

IT IS seldom we see here in the West a good account of caponizing, probably because the demand is not so great as in the East. In my town, or city I should call it, as we have a population of fifteen thousand, we have no market at all for capons. I have to ship to the twin cities, a distance of sixty-five miles,



Front View of fattening crate. (See "Caponizing the Surplus Cockerels.")

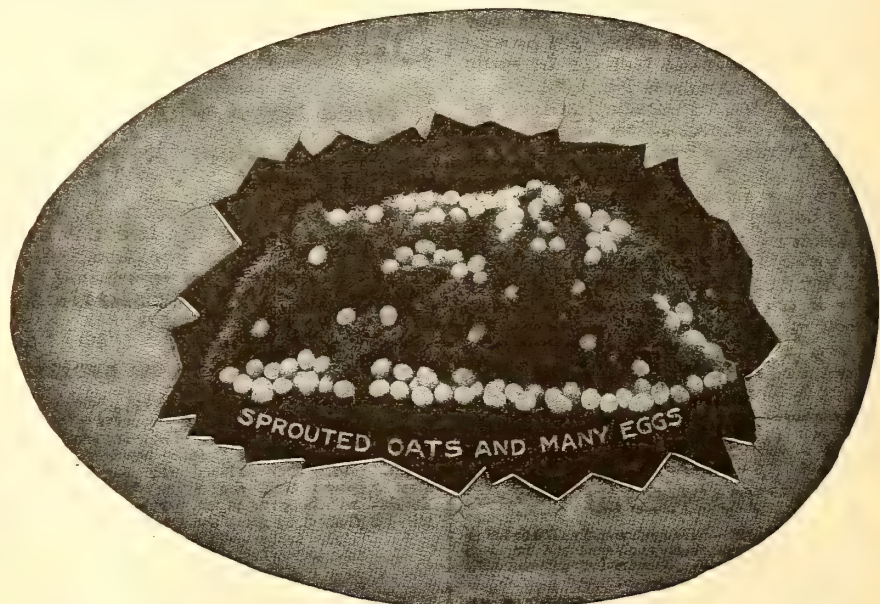
and even there the demand is limited—but I am getting a head of my story.

I had been reading up considerably in agricultural bulletins and in AMERICAN POULTRY JOURNAL about capons and caponizing and was quite enthusiastic about trying my hand along that line. This was in the summer of 1915. I

found I had about two hundred cockerels which I could not sell for exhibition or first-class breeders. I breed Barred Plymouth Rocks for exhibition, and while these cockerels were not culls, I did not consider them fit for breeders and was puzzled to know how best to dispose of them. Market prices were too low to sell them as they were. The thought came to my mind, caponize—why not? Accordingly I ordered a set of tools advertised in AMERICAN POULTRY JOURNAL. They arrived in good time and the directions accompanying them were brief but adequate and written so they could be easily understood.

After giving them the "once over," I set to work. I will admit, clumsily at first, but after a few were fixed up I had the hang of it pretty well, if I do say it myself.

I used a barrel head for a table, weighing the legs as shown by the bulletin of the Department of Agriculture, and as I had starved them for forty-eight hours prior to this, I had little trouble making the operation. At first I would cut on one side and after removing that testicle, turn the bird over and do the same on the other side. But this soon gave way to the more rapid way of cutting only on one side and removing the lower testicle first and then the upper one. As soon as one was done I would release it gently, letting him run into a large, slightly darkened room in which I had fresh water and some soft mash, of which the bird would eat greedily after his operation. Thus I went ahead until I had the whole bunch "fixed." After



The above illustration and caption are used by the Close-To-Nature Company, Colfax, Iowa, in introducing their line of grain sprouters. "Sprouted Oats and Many Eggs" or "Sprouted Oats and Winter Eggs" has become a maxim with well informed poultry keepers. The grain sprouter or perpetual poultry silo is now accepted as a necessary part of the equipment of successful poultry plants and the value of sprouted oats as a green feed has become very generally known thruout poultrydom.—Adv.

few days I examined them for "wind puffs," a puff right over the spot of operation, but luckily I found only a few and these I pricked with a needle to let out the air and the cut healed up rather promptly.

The comb of a real capon stops growing, as does the tail. They do not crow, except the slips, of which I only had three, which I killed and ate.

A capon gets very gentle and awkward and does not seek the company of hens, but on the contrary, likes to be alone. They eat like hogs and grow almost as fat—but I am getting ahead of my story. While I was doing this work on my table of a barrel head, I had two visitors, a neighboring farmer and a minister respectively. The latter, after one glance at my gory work, turned away in disgust, but the farmer tarried and argued that I was inhuman. I replied that it did not appear to me to be greatly different from making steers of bulls or geldings of stallions.

I kept the capons on range all summer and fall, feeding them nothing in particular but just grain and they balanced their own rations with the aid of bugs and grasshoppers, which were plentiful. December first I decided to fatten them up for the holidays. I made extra coops as illustrated, along the walls of the barn, two tiers high, each compartment being 6x3 ft. and holding just as many birds as could stand side by side and eat out of the trough comfortably. These coops were fitted with a false floor, made of $\frac{1}{2} \times \frac{1}{2}$ in stuff, spaced so the droppings would fall thru to another solid floor but still would not hinder the comfort of the birds. Running the entire length of the coops I had a galvanized feeding trough made of a rain water gutter. These I scrubbed every day, as I also did the floors and feeders. In this way I kept the place fairly clean and sweet smelling as possible.

I gave them a mash composed chiefly of bran and meal corn and mixed with buttermilk, which I procured at the local creamery. This was fed four times daily. Also once a day I put charcoal and grit before them, but no water. After the feeding I let down the burlap curtains in front of the coops, shutting the birds up in semi-darkness, as they rest better in this way than in bright light. I kept watch to see if any showed signs of "getting off their feed," and if any showed such symptoms they were taken out and given a balanced ration until in condition again.

Toward the end of the fattening period, I mixed freely in the mash what is known as "stock food molasses," which puts a finish on them, making them

WHITE LEGHORNS

"With The Lay Bred In Them"

FALL SALE—SPECIAL PRICES

Cocks—Were used in our own breeding pens. That's proof they are right.

Cockerels—Bred from generations of 200-egg record layers. Healthy, husky hustlers.

Hens—Selected from thousands of pullets because of quality, vigor and performance.

Pullets—Early-hatched, well-grown birds of great promise. All bred for business.

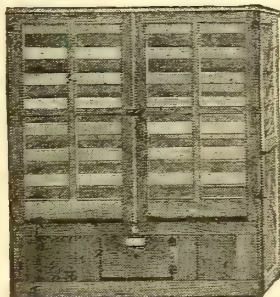
Buy early and save money.
Write today for prices and catalog.

SPRECHER BROS.

Box 44, Rohrerstown, Pa.

Close-to-Nature Grain Sprouters

The Close-to-Nature company originated the grain sprouter business; is the oldest and largest sprouter factory, and makes all kinds of sprouters for all kinds of conditions.



Double Quick Sprouter

The Original, the Pioneer of All Sprouters. Six sizes from $\frac{1}{4}$ to 8 bushels—a Few Hens to 1,000. Cypress case outside and galvanized steel case inside. All-metal one-piece aerated grain trays. Double walls insulated. For full Description see catalog. Designed to produce the Vapor-Bath sprout.

Oscar Arnold, Lawrence, Penn., May 5, 1914.—I have been using one of your sprouters now since December, 1911. (Three years.) It gives entire satisfaction.

Lynn A. James, Secretary and Manager Columbia Duck Farm, Home of "Dearie," the World's Greatest Layer, Bloomsburg, Columbia County, Pa., Nov. 17, 1914.—Have the No. 5 in use now and find it all you claim for it. Am feeding sprouted oats to our famous "Dearie" ducks, and the egg yield is already on the increase. We figure our feed after being sprouted costs us not over six cents a bushel. And it is the best of feed for ducks. We will likely need two or three more a little later on in the winter.

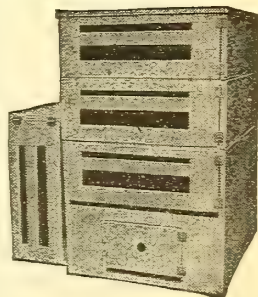
Ernest F. Smith, Kirkwood, Ill., March 29, 1914.—I think we owe you a testimonial for your sprouter which we purchased the latter part of February. We are operating it in a cellar where the temperature varies very little from 40 degrees above zero. In this cold place, at a cost of less than 1 cent a day for oil, we are operating one of your No. 4 Double Quick machines and growing sprouts from 6 to 8 inches in 6 days. We are using half the trays and are not filling them nearly to capacity, and are feeding 75 hens all they will eat once a day. In short, we are only operating it at about one-third capacity which we could sprout if need be at the same expense for oil. Yours is surely a fine machine for results and the hens surely enjoy the sprouted oats. Wishing you success, we remain, etc. (Redlayer Strain R. C. R. I. Reds.)

Colfax Metal—Sectional Sprouter

Purchase additional sections as your flock increases. Two size bases. On small base, each section holds $\frac{1}{4}$ bushel. On large base, each section holds one bushel. All-metal one-piece aerated grain trays. Double walls with heat flues, the outside wall insulated with asbestos. Produces the Vapor-Bath sprout. Full particulars in catalog.

J. H. Hartshorn, S. C. White Orpington, Traer, Iowa, Feb. 26, 1915.—You will find draft enclosed to pay for one large section for the Colfax Oat Sprouter. The oat sprouter works fine and is worth twice the price you ask for them. I would not be without one. Ship section by express.

Mrs. J. C. Hazlett, Muscatine, Iowa, Oct. 13, 1915.—The Colfax Metal Sprouter I bought of you in December is all right. We used it all winter and all summer. We got lots of eggs when our neighbors' hens were not laying at all.



The Lampless or Fireless Sprouter



For use in rooms of high temperature. Ebonized iron frame and one-piece, all metal aerated trays. Four sizes, $\frac{1}{2}$ bushel, 1 bushel, 2 bushel, 4 bushel. Drip pan has drain tube. Does not produce the Vapor-Bath sprouts. Full description in catalog.

Send for circular giving 100 letters like the following:

C. H. Latham, Lancaster, Mass.—"I am enclosing my check for two more No. 5 Double Quick Grain Sprouters to be shipped by freight. The one I got of you some weeks ago is doing good work."

H. F. Marsh, Sebastopol, Cal., Jan. 28, 1915.—I am highly pleased with the machine. It solves the chicken problem with me. Wheat is selling at \$2.50 per hundred retail, and my hens were not laying enough eggs to pay for their keep. Now I feed some corn and sprouted barley and oats, and my hens are laying fifty per cent more eggs since I gave them the sprouted grain. I will send for another sprouter of larger size next summer.

D. E. Jones, Grand Junction, Colo.—"My Double Quick Sprouter is working fine. I built a box around it and put it out doors and the thermometer went down to 16 below zero but it kept right on germinating. I sure gave it a good test."

L. C. Kent, Kewanee, Ill., Dec. 9, 1913.—It is the best investment I ever made. I used it nearly the entire year. I would not do without the sprouter for any consideration. It does not take five minutes a day to look after it.

Mrs. M. L. Hopkins, Superior, Montana.—"My sprouter is fine. I used it all last winter. My oats sprout fine. I have eggs when no one else has them. I have the White Leghorns and White Plymouth Rocks. I am getting 50 cents per dozen now, soon be 60 cents, for eggs."

Wm. Suske, Prairie View, Ill.—"I have received No. 2 Double Quick Oat Sprouter and it works fine. Our hens have gained in laying. I would not miss it for fifty dollars."

Free Circular on Sprouted Oats and Grain Sprouters. Get Our Special Proposition.

CLOSE-TO-NATURE COMPANY

38 Front St.

COLFAX, IOWA



(Standardized)

DISINFECTANT. INSECTICIDE. GERMICIDE.

Kills lice and mites.

For treating all of the common diseases of poultry.

Prevents the spread of contagious diseases among poultry.

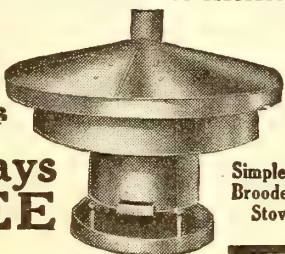
Kreso Dip No. 1 and a little effort will keep your poultry clean and healthy and increase your profits.

INEXPENSIVE. DEPENDABLE. EASY TO USE.

Will not harm poultry when used as directed.

For sale by all druggists.

We have a special FREE booklet on Diseases of Poultry. Write for one.

PARKE, DAVIS & COMPANYDepartment of Animal Industry,
DETROIT, MICH.Brood
Your
Chicks30 Days
FREESimplex
Brooder
Stove

Use the new 1917 Simplex Brooder Stove on your own hatch for thirty days free. Raise 20 to 50 per cent more chicks at 1-5 the cost, 1-10 the work and 1-4 the operating expense. Small and large broods. Three sizes of stoves. Try our stove under all conditions and if you are not delighted send it back and we will cheerfully refund your money.

Turn Losses Into Profits

This wonderful brooder will raise 50 per cent more of your chicks than you have been able to raise under the old fashion methods. No more deaths from white diarrhoea and poor ventilation. It turns the losses from dead chicks into big profits for you. The Simplex soon pays for itself by the extra money it makes for you. The Simplex Brooder Stove burns kerosene oil, natural or manufactured gas, automatically regulated to insure an even temperature with the least possible attention.

Free Brooder Book

Write today for valuable free brooder book and catalog. It tells how to "increase your profits by decreasing mortality." Tells how to save chicks you have been losing each year through disease and faulty brooding. How to make more money. Also catalog and details of 30 days trial free. No obligations. Write now.

SIMPLEX BROODER STOVE COMPANY
1222 Ellsworth Ave. Grand Rapids, Mich.

plump but not too fat, just so as to tempt the palate of the epicure.

When they were ready I killed by sticking in the roof of the mouth, plucking as a capon should be plucked, namely, leaving the feathers on the neck, tips of wings and tail quills. After wrapping each separate in waxed paper (having first been thoroly chilled), I packed in barrels and shipped to the twin-city fancy cafe trade.

After disposing of my capons in this way and figuring up the profit over and above cost of production, I had figures to make the most sagacious real estate agent stare in wonder and awe. I also sent one nice dressed capon to each of my two friends of the summer before as a Christmas present, and to my surprise they both came at different times to compliment me on the success of my venture, declaring they had never tasted a more delicious meat morsel in their lives and that they were now convinced of the wisdom of caponizing market birds.

COST OF REARING CHICKS.

Records of Two Flocks from the Egg to Marketable Size.—Second Prize Article American Poultry Journal Contest.

By FRED M. ROBINSON, Dallas Texas.

MANY articles have appeared from time to time on the cost of producing eggs, but I have seen very few on the cost of chicks from the egg to broiler, fryer or first egg laid. I realize how hard it is to get the exact cost, as very few keep records of food fed to each brood of chicks, the losses at different ages, etc.

For the last eight years I have tried to get what I considered exact cost of large and small flocks and have succeeded in getting two records that are remarkable for various reasons: One of twenty-seven chicks from thirty eggs, with only one loss (a chick only a few days old accidentally killed). There were thirteen pullets and thirteen cockerels, the latter being sold all at one time at the age of four months. See record No. 1.

Record No. 1 is of 27 day-old Rhode Island Red chicks from April 20 to December 20.

OVERHEAD AND FIXED EXPENSE.

30 eggs for sitting.....	\$.65
Care and use of two hens.....	.75
Labor first two weeks, 5 minutes per day.....	.18
Labor next six weeks, 3 minutes per day.....	.32
Labor next six months, 2 minutes per day.....	.90
Ten per cent depreciation on equipment.....	.15

Total, \$2.95

The total of \$2.95 overhead expense for the flock of twenty-six chicks makes a charge of 11 1/3 cents per chick.

FOOD COST BY MONTH FOR 8 MONTHS, INCLUDING HEN.

First month's food for each chick.....	\$.02 1/4
Second month's food for each chick.....	.02
Third month's food for each chick.....	.03
Fourth month's food for each chick.....	.03
Fifth, sixth and seventh month's food for each chick.....	.11
Eighth month's food for each chick.....	.05

Total, \$0.26 1/4

S. and R. C. WHITE MINORCAS
GOLDEN CAMPINES America's Champions. If you want to improve your flock we can furnish you stock at the right prices.
Thomas Brogden, Specialty Breeder, Box C, Rush Lake, Wis.

The Unlaid Eggs

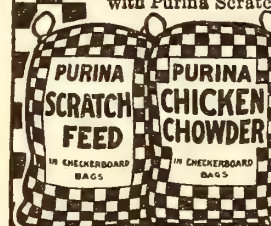


Grain-fed hens often carry yolks they can't complete into eggs because their feed lacks white-forming nutrients. Missouri Experiment Station tests show that 100 lbs. of wheat, corn, oats, barley, kafir corn make 224 yolks to only 154 whites. Based on this data

	Yolks	Whites
Purina Scratch Feed makes	247.49	142.11
Purina Chicken Chowder makes	182.05	282.55
Total	429.54	424.66

These feeds make a practically equal number of yolks and whites and more of both than ordinary feeds. That's why we can guarantee

More eggs or money back on Purina Chicken Chowder it fed with Purina Scratch Feed as directed. Write for details and for



64 page Poultry Book FREE

Ralston Purina Co.
801 Gratiot St.
St. Louis, Mo.

Ideal Aluminum

LEG BANDS for POULTRY and PIGEONS are the acknowledged leader. Firmest and most secure lock. GUARANTEED to stay on. Price, postpaid, 12 for 15c; 25-20c; 50-35c; 100-60c; 175-\$1.00; 200-\$1.10; 500-\$2.50. Price list and sample 2c.

COLOR KEY RING LEG BANDS
12-15c; 25-30c; 50-50c; 100-70c.
250-\$1.70; 500-\$3.25. postpaid.

FRANK MYERS
BOX 40 - FREEPORT, ILL.

BROODER

For \$2.96, including heater, you can build the simplest, most efficient, and most satisfactory brooder ever made. Wind-proof; fire-proof; rat-proof; fool-proof. Can be built by anyone in an hour, with saw and hammer. Plans 10c.

I PUTNAM, Route 1205 ELMIRA, N. Y.

SCHUMACHER**Scratch Grains**

Rich in Protein and Carbohydrates—makeshenslatter.

Chick Feed

Contains Oatmeal—makes big, healthy, fast growing chicks.

THE QUAKER OATS CO. CHICAGO, U.S.A.

70 EGG INCUBATOR \$5.50 FREIGHT PAID

Here's the best incubator offer on the best incubator. Guaranteed to hatch equal to any \$15.00 machine.
1916 RELIANCE Incubator
Best built—double walls, hot water heat, copper tank. Full equipment—lamp, regulator, thermometer, etc. Freight Paid. Order today on Satisfaction or Money Back Guarantee—or write for literature. We make Brooders, too.
RELIANCE INCUBATOR CO., Box 50 FREEPORT, ILL.

White Orpingtons

Our strain is noted for its heavy laying and prize winning qualities. Write for prices on exhibition and breeding birds. We have the quality you want.

CAIRNGORM FARM

NOTTINGHAM, OHIO

Which total of 26¼ cents per chick for food cost, added to 11½ cents per chick overhead expense, makes a total of 37 cents.

The eggs set were charged at market price at that time, and a fair price is allowed for the use of the two brooders, one for three weeks and the other for ten weeks. The coop used was placed close to the house, was collapsible and easily cleaned, which saved much time. The mother hen showed a good profit by laying eggs worth, at market price, \$2.40.

The thirteen cockerels were sold very cheap, as they were hatched late, only realizing thirty-five cents each for them and they had consumed ten and one-fourth cents worth of food in the four months and the overhead and egg cost would make 8½ cents each. The labor and overhead expense was the same for the thirteen pullets as it would have been for the whole flock. The hen's food was included in the cost of feeding the brood.

The first egg was laid by the pullets on December 6. All had laid by the time they were six months old.

Record No. 2 is of 12 Barred Rock chicks, May 8 to August 8:

OVERHEAD AND FIXED EXPENSE.

15 eggs for sitting.....	\$.32
Care and use of hen.....	.50
Labor 5 minutes per day for 2 weeks..	.17½
Labor 3 minutes per day for 6 weeks..	.32
Labor 2 minutes per day for 4 weeks..	.15½
Ten per cent depreciation on equipment	.15

Total, \$1.62

A total of \$1.62 overhead expense for the flock or 13½ cents per chick, while the food used for the flock for four months cost \$1.15 or 9 7/12 cents per chick, which makes a total expense per chick of 23 cents.

The twelve chicks from fifteen eggs (no loss for four months), six cockerels and six pullets, were kept under same conditions as above, being fed five times a day for two weeks, three times a day for six weeks and twice a day for the last four weeks, at which time the cockerels were sold for fifty cents each. This being considered a fair price.

Food used for both records cost as follows:

Roller oats.....	\$2.00 per 100 lbs.
Commercial chick food.....	2.25 per 100 lbs.
Steel cut chops.....	1.75 per 100 lbs.
Bran.....	1.35 per 100 lbs.
Oyster shells.....	200 per 100 lbs.



Winners

Madison Sq., 1916

My Rose Comb Brown pullets of 1915 breeding were never beaten, winning firsts and seconds in Allentown, Philadelphia and Madison Square. Also first and second hens. Eight firsts by customers in Canada. Sons of these winners \$15 to \$25. Utility line, 242 to 256 records, \$1.50 up. They won an egg contest in western Canada.

S. C. Browns—266 egg line. The greatest egg line and ckrls. out of 1st Palace pullet, 1914.

S. C. Whites—288 egg line cockerels, 1 or 100. Also hens. A great chance.

R. C. Whites—244 egg line. Winners. All my Leghorns good size and lay large eggs.

S. C. Reds—248 egg line. Extra fine.

Barred Rocks—270 egg line. Extra lot.

W. Wyandottes—228 egg line.

Fair treatment. Send for catalog.

W. W. KULP

Box 70 Pottstown, Pa.

Keeler's Vigorous WHITE Wyandottes

THE ARISTOCRATS OF THE WHITE WYANDOTTE WORLD

Won five firsts at Chicago, 1916



1st COCK, CHICAGO, 1916

Before you buy a single White Wyandotte, send for my large, new, instructive catalog, giving the full history of my birds—THE WORLD'S GREATEST STRAIN. A winning and breeding record of 23 years will convince you that I not only have birds that will win in any show room, but will also fill the egg basket. Some of my birds laying as high as 265 eggs per year. My prize winning females are selected from among these layers.

2000--Birds for Sale--2000

Females, \$5.00 to \$25.00; males, \$5.00 to \$35.00. Limited number extra choice, \$50.00 each. Breeding pens, \$25.00, \$35.00 and \$50.00. Show pens, \$50.00, \$75.00 and \$100.00. 1917 breeding pens mated December 15th. Your wisest act before buying is to send for my catalog.

CHAS. V. KEELER R. F. D. 11 WINAMAC, IND.

You Will Eventually Breed TEN-A-SEE strain

S. C. Mottled Anconas

THE CHAMPION LAYERS. WHY NOT NOW?

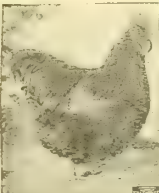


Again they prove supreme at Memphis, the Madison Square Garden Show of the South, by winning on six entries 1st and 2nd Pen, 1st and 2nd Pullet, 3rd and 4th Cockerel and Specials. This win, together with my other winnings at Nashville, Memphis, Joplin and Chicago, prove that **Ten-A-See Strain Single Comb Anconas** are the Aristocrats of the Ancona World. I have no more exhibition birds for sale, but have a nice bunch of well bred, good colored and good type utility cockerels at \$3.00 and \$5.00 each that will make excellent breeders and improve your flock in type, color and egg yield. I am headquarters for Exhibition and Utility Eggs for Hatching and Day-Old Chicks. Place your order early. New illustrated catalog and mating list ready January 1st. They are free. Send for one now if interested.

S. BARTON LASATER, Box 165-B, PARIS, TENNESSEE

ABSOLUTE SALE OF

FOXHURST CHAMPION WINNING BLACK ORPINGTONS



Conceded the greatest strain of Black Orpingtons in America.

A strain that has dominated the leading shows of the country in our hands and our customers for years.

We now offer every bird on our place, including Madison Square Garden Champion Winners for the past three years, as well as Pittsburgh, etc.

Also our foundation stock, hens and breeding cocks, at one-half their value and one-quarter what they could be bought for were we to continue in business.

Breeders should not overlook this great opportunity. Write your requirements and let us send you stock on approval, with money-back guarantee.

FOXHURST FARM

LIME ROCK, CONNECTICUT

Quality White Plymouth Rocks

PRIZE WINNERS at leading shows. We are offering for quick sale, 50 fine Cocks and Cockerels that will win the blue at any show. Also bargains in mated trios and pens, We satisfy. Write us your wants now before it is too late. Mention Am. Poultry Journal.

FOREST HILL POULTRY FARM

A. G. Spahr, Mgr. Box 1240, Xenia, O.

MINORCAS Giant S. C. BLACKS

Ohio State Fair, 1-2 Cocks, 2-3 Hen, 1-2 Ckrls, 1-2-3 Pullets, 2 Old Pen, 2 Young Pen and Mediterranean Special on Pullet. Indiana State Fair, 2 Cock, 1-3 Hen, 1-2 Ckrls, 1-2-3 Pullets, 1 Pen. A grand lot of Ckrls that will win in your show. Sold under your own guarantee. JOHN L. BROWN, 1515 W. 7th St., Anderson, Ind.



Patented Sept. 1, 1914.

YOU Need Leg Bands

For Your Birds

just as much as you need to feed or house them. It is impossible to trap-nest without them, and if you raise one or a thousand birds you should have them banded, if for no other reason than to tell their

age at a glance. For trap-nesting and exhibiting, the bands are made with large numbers easily read from a distance. Double numbers on a band from 1 to 100, single numbers on a band from 101 to 300, may be had on white, red, blue, pink, cerise, yellow and green celluloid. Also single numbers from 301 to 800 on white only. In order to tell the age of the bird, we can supply bands with the number "1915" and "1916" on the same seven colors of celluloid. Sizes to suit all breeds, also pigeons. Guaranteed to stand water and weather. Send for free sample and circular. Easy to use and worth using.

BOURNE MFG. CO.
231 Howard St. MELROSE, MASS.

Have you read the

Poultry Doctor?

IF NOT, you should have a copy of this valuable booklet. Thousands of poultry people are following the instructions of the *Poultry Doctor*. This booklet contains sixteen different formulas of remedies for diseases common among fowls. *It is yours free of charge.* Just drop a postal with name and address to

The Licene Company
1500 Pontiac Bldg. Chicago, Ill.



45 Varieties

LAND AND WATER FOWLS
Send for free illustrated catalog, which tells you much you should know. Stock and eggs at all times. Mention A. P. J.
S. A. HUMMEL
Box 52 Freeport, Ill.

John Schabell's Single Comb

White Leghorns

Breeding hens and cockerels, May hatch. All breeders trap-nested.

JOHN J. SCHABELL

3331 W. Cuyler Avenue Chicago, Illinois



CAMPINES SILVER GOLDEN

The Egg and Money Makers

A number of real classy birds for sale at bargain prices. Write me your wishes. I sure can please you. My book, "Campineology," and two color-plates for ten cents.

J. FRED N. KENNEDY
Box F Birch Cliff, Ont., Can.

HOW TO MAKE POULTRY RAISING PROFITABLE.

How Much to Invest to Get Started
Right.—Choice of a Breed.

By E. S. ALDRICH, Columbus, O.

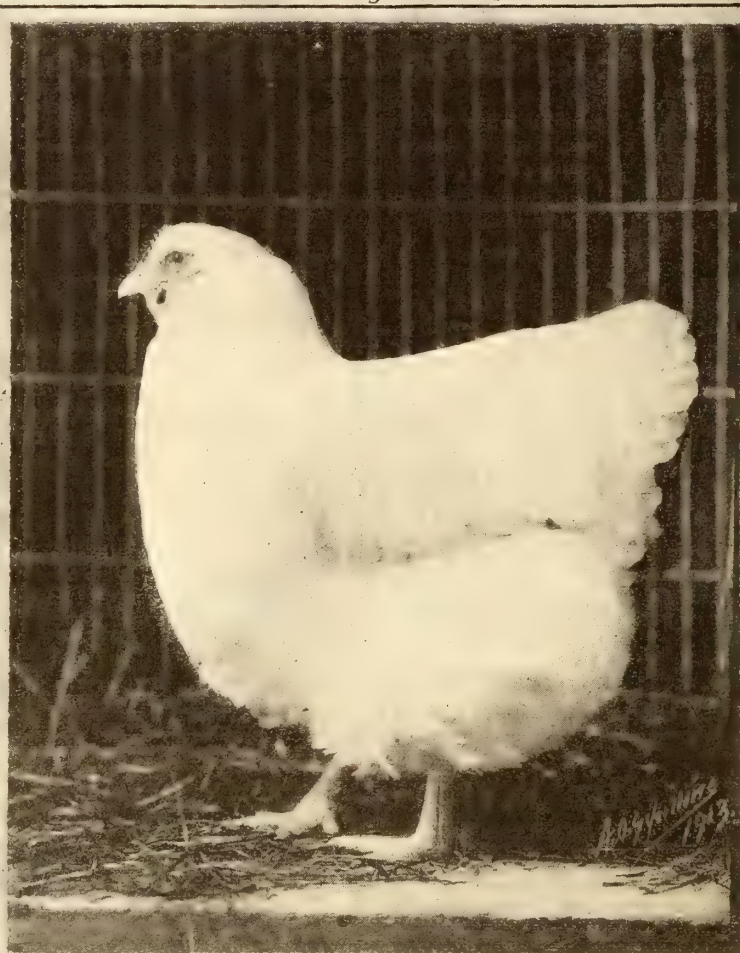
AMONG the many thousands of those raising poultry today there are a few who are interested only as a hobby, but the great majority are expecting their chickens will enable them to make a profit over and above the cost of feed, labor, etc. The most of those about to start in the poultry business take one or two poultry journals, and in order to help them decide which breed to put in and what their foundation stock will cost, they usually write to several breeders whose advertisements they have read in these journals and ask for their catalog. In this way they can usually decide which breed of chickens appeals to them, and then the next question to be decided is: What grade of stock or eggs should they invest in to make their investment a paying one?

Having secured a suitable location, with the proper buildings and equipment now ready, the next thing to de-

cide is the amount of money you can afford to put into your foundation stock. If you do not have enough funds available to purchase good stock, my advice is: Do not go into the poultry business at all. Many failures are caused by persons putting too large a percentage of their available capital into buildings, thus making it necessary to purchase cheap stock which was not good enough to even lay enough eggs to pay the cost of feed alone. Right here let me tell you to be very careful in investing very much money in poultry with the expectation of making money with egg production alone.

Many extravagant claims are made by breeders claiming to have 200-egg strains, while the greater percent of birds sent out by them are not trap-nested or even bred from the few high record layers they may own. During the last two years thousands of people have purchased stock or eggs from these "so advertised" 200-egg strains, but have found that they secured no more eggs from them than their neighbors were getting from their ordinary chickens. Then they discovered that their birds did not produce specimens good enough to win a prize even at a county fair, so

"WHITE QUEEN"



FIRST PRIZE WHITE ORPINGTON HEN
MADISON SQUARE GARDEN N. Y. 1913.
BRED AND OWNED BY
ALDRICH POULTRY FARM COLUMBUS O.

this prevented them from selling any eggs or stock at above market prices—which with the smaller breeds just about paid the feed costs—and so their investment, time, etc., was a total loss.

With a heavy breed, that lay a large percentage of their eggs in the winter months, and which can be sold for enough to pay the cost of feed, a fair profit might have been made had the purchaser secured his stock from a reliable breeder who had trapnested his birds long enough to have bred them up to a good egg production. For example, the firm of which the writer is a member began trapnesting in 1910, and in 1914 four pullets selected at random laid 729 eggs at the Mountain Grove National Laying Contest, an average of 182 eggs per pullet. 374 of these were laid from October 1st to April 1st, and at the Columbus prices for market eggs for the year, which are about 25 per cent less than New York prices, this made an average of \$5.28 for the eggs produced by each pullet.

The surest way to make poultry raising profitable, is to purchase good foundation stock from a reliable breeder who has bred his stock in line for years, and who has established a strain of exhibition birds, combined with high egg production. If this breeder has succeeded in producing birds year after year that have won in the best shows in America, and his customers have also been winning for several years, it proves that his strain is firmly established and birds bred by him may be expected to reproduce a large percentage of very high class exhibition stock, as good or better than the original stock purchased.

If the breeder has also been trapnesting and breeding for increased egg production for several years and his birds or strain has made good records in the laying contests, this should also be considered as being an added value over birds sold only for exhibition or laying purposes.

Now let me explain where more money can be made by those starting with stock of exhibition quality and high

AGAIN THEY PROVE SUPREME. At the recent New York State Fair, exhibiting our famous

Speckled Sussex

We won all of the *five first ribbons*, all seconds except cock; also third cock and 4th cockerel and best display. On account of Mr. Rawnsley judging the class, we did not exhibit any

Buff Orpingtons

These late winnings added to our great record at Madison Square Garden and Chicago Coliseum, places our birds second to none. If you want quality birds at reasonable prices, write

Rawnsley-Shields Poultry Farm
5173 N. High Street Columbus, Ohio

Stop Hatching Weak Chicks

Anyone
Can
Succeed
With a
Queen



125-Egg Queen
Floor Space:
28½ x 32 Inches

With Cheap Incubators

Remember, it is not how many you hatch that counts, but how many you raise. Chicks that hatch out weak and wobbly, and live but a few days, mean nothing to you except trouble and loss. They make one sick of the poultry business. Most of the chicks you lose in the first two weeks die because they they did not hatch out with enough vitality or strength for a good start.

Queen Chicks Live and Grow

Queen Incubators are famous for big hatches of strong healthy chicks that live and grow. The Queen is accurately regulated—taking care of a temperature variation of 70 degrees without danger. It is built of genuine California Redwood—

very scarce in these days of imitation and cheap substitution. Redwood does not absorb the odor from the hatching eggs. Cheaper woods, and pasteboard lining in iron and tin machines, retain the odors, to weaken and kill the hatching chick.



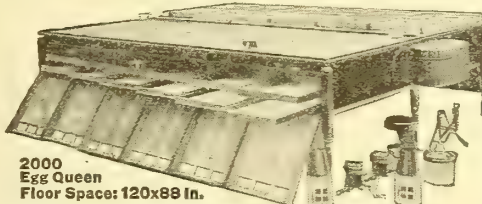
375-Egg Queen
Floor Space:
34½ x 63 Inches

Three
Egg
Trays

Queen Incubators

Sizes: 65 to 2,000 Eggs. Prices: \$8 to \$180

The large size Queens have all the features of quality material and construction, and tested modern improvements, that have made Queen Incubators of smaller sizes the most successful incubators of medium price. Double walls and bottoms of California Redwood insure complete insulation. The 1,000 and 2,000-egg Queens were successfully operated last winter in rooms of a temperature of 30 degrees above zero. They maintained a uniform heat on normal lamp flame without special attention. New heater is double-walled and



**2000
Egg Queen**
Floor Space: 120x88 In.

lined with five layers of asbestos. Drain cap to outside of heater. Lamp sets on safety shelf, completely enclosed in metallic hanger.

Queen Brooder Stove

Only Brooder stove in which both fire and amount of heat are automatically controlled by one thermostat, and one connecting rod. Gas controlled above deflector. No gas can escape below to injure the chicks. Hover is made in sections, easy to put together and take apart.

300 to 500 Chick Size \$13
1200 to 1600 Chick Size \$16
(\$15 and \$18.50 west of Rockies)

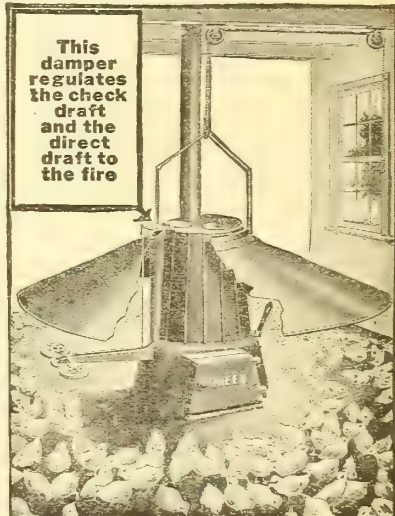
"Of Course"

W. H. Galloway, Geneva, Wash., wrote August 16th, 1916:

"I was told that you are putting out a 1000-egg machine. I would like to get a description of it, as I intend to enlarge my hatching plant this season. I have been using four 360-egg Queens for the past four years, so of course will want more Queens."

Queen Incubators are not cheap, but they are cheap in the long run. Ask for free book and prices.

This
damper
regulates
the check
draft
and the
direct
draft to
the fire



QUEEN INCUBATOR COMPANY
1037 North 14th St. Lincoln, Nebraska

STANDARD COLONY BROODER

Broods
100 to 1,000
Chicks

Price
Only \$16⁰⁰

A Little Higher in
the West on
Account of
Freight



→ PATENTED ←

The one practical, economical and safe brooder for all raisers. It's even better than the hen—it solves the whole brooding problem. Capacity, 100 to 1000 chicks; coal burning, (24 hours at one load)—self-feeding; everlasting; costs less than 6c a day to operate.

Write the Strongest Guarantee Yourself

Put it up to us, or any one of our 2000 dealers. Put in it all that a brooder should be, all that the best brooder in the world should do. We'll sign it. Then take the Standard on a 30 days' trial. If it doesn't come up to **your** guarantee, you get your money back.

That's the stiffest promise of complete satisfaction ever made, but we back it to the limit, and our responsibility is fixed.

Look at These Specifications

Solid cast iron stove; 52 inch galvanized hover; Two double-disc thermostats, tandem hitched; Rocker furnace grates, self-cleaning and anti-clog; Check valve hung on knife edge bearings; Gas proof—fire proof—fool proof; Guaranteed to burn more than 24 hours in any temperature with one coaling; Capacity, up to 1000 chicks.

Beware of Imitations. So far we have caught five competitors trying to imitate the "Standard." Make sure by looking for our name.

Get our "**Book of Proofs**" free. It tells what the users think of the Standard. True, it hasn't all the 10,000 satisfied owners, but there's enough to convince you. Write for it at once.

AGENTS WANTED Some good territory still open. An attractive proposition for the right man or firm.

The Buckeye Incubator Co.

115 Euclid Avenue

Springfield, Ohio

egg production, than by those who only start for eggs alone. If a person purchases a pen of birds good enough to win at his local or state show, he can expect to sell his eggs for setting all during the breeding season at several times the price he could obtain for market eggs. This additional price of eggs during a single season will usually pay the total cost of the pen originally purchased and allow the purchaser to set half the eggs for himself. Then during the next season he can sell his surplus cockerels at several times what he would get for them on the market, and after selecting enough pullets for his own breeding pens he can sell the balance for much more than the cost of feed, labor, etc. Now what better investment should one expect than this?

You can now easily see how much depends on the original stock purchased and, of course, the more you can invest at the start the more you can expect to make. If you find that you cannot get as many birds as you would like, get a smaller number, but do not cut down on the quality. Better by far, purchase a \$25 trio than a \$25 pen.

Now suppose you can afford to purchase a pen of the \$100 quality. You could then expect a pen good enough to win first at your state show. In this case you, of course, would have secured such a reputation that you could reasonably expect to get at least \$10 a setting for your eggs. You will find it necessary, of course, to carry an advertisement during the season in one or perhaps two poultry journals and in such a journal as the *AMERICAN POULTRY JOURNAL* you will find it necessary to only spend about one-sixth the amount of your income, at first, and less after you are better known. The Aldrich Poultry Farm find it only necessary to spend less than one-tenth their income for advertising and the per cent gets less each year. This is not true of many of the smaller journals which we have had to discontinue using.

One can also reduce his advertising or expect better results if, until he has established a strain of his own, he will advertise his birds as the strain from which he has purchased his foundation stock, provided the breeder where he has bought his stock keeps his strain properly advertised. His prospective customers will have greater faith that his birds will produce good stock, than if he only advertised his birds of a certain breed but no strain.

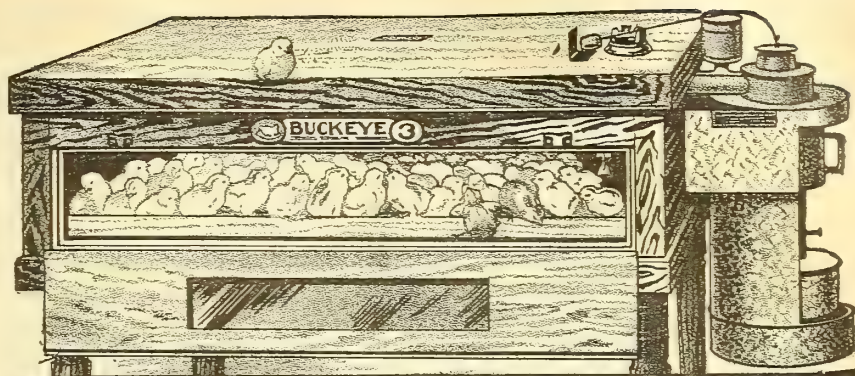
Now supposing you have the \$100 pen, you can reasonably expect that the four females will lay, if White Orpingtons and if bred for high egg production, 100 eggs each, or 400 eggs during the first breeding season, provided you have purchased them, say, before January 1st and secured females ready to lay by that date. There should be 360 good shaped eggs, or 24 settings. You could then sell half of them for \$120, leaving \$120, or the cost of your pen, after deducting advertising cost. From the balance of the eggs you could expect 150 fertile eggs from which, barring accidents, if incubated properly, or set under reliable hens, you should hatch 120 chicks. If you raise 100 of these you would probably have about 50 cockerels and 50 pullets. Suppose 80 per cent of these are good quality, you would have 40 pullets or enough for four full breeding pens, and after selecting eight cockerels to head these pens, you should

be able to sell the remaining 32 at an average of \$10 each, or \$320, or after deducting advertising cost \$262. This would more than pay the total feed cost on all the birds, and you would also have the eggs to sell during the other seven months. Thus you see you would at the end of the year have your original pen paid for and four complete breeding pens ready for the second year. Or you could by purchasing four more females of the same quality for \$50 double the above. You could, by showing these, also increase your show record. Should you also be in position to purchase a cock and cockerel at say \$50 each you could then show a full string at your show, and by making a greater win increase your reputation and secure even better prices. If you could invest \$100 each for male birds and \$50 each for hens and \$150 for a pen you could then secure birds good enough to win first prize in any show in America outside of Madison Square Garden or Chicago, and the following season you should be able to raise birds good enough for these shows. You would then find your national reputation would enable you to make a fine profit on your investment. Suppose you should invest that amount in utility birds only, you would have to have a much larger investment in buildings the first season, and the extra labor to take care of the larger number of birds would eat up all the profit.

Now if you wish to invest \$50 in a pen you could expect the same relative results. A pen of this quality should win at most state fairs and in all except the strong state and national shows. You could then expect \$5.00 per setting for your eggs and an average of \$5.00 each for cockerels. If you only have \$20.00 or \$25.00 available and wish exhibition stock from bred-to-lay matings, buy a trio at first and add females as you are able. Then you could get birds good enough to win in your county shows or fairs. Or if you wish birds only for egg production you could get a \$25.00 pen.

You cannot expect to get good stock at lower prices than these from a reliable breeder and if you invest your money with others you will surely become disgusted and want to quit. If you are already breeding birds and wish some new blood you could, of course, purchase single male birds or females, but do not expect to get exhibition cockerels at less than \$10.00 each, or cock birds at less than \$15.00, or hens or pullets at under \$5.00, and, of course, birds at these prices are only good enough for the smaller shows.

Now if you desire to start in the poultry business, the best time to purchase your foundation stock is in the fall. You can thus have the birds trained, conditioned and washed for your show at no extra cost and most breeders can give better value than later after having the expense of carrying the birds thru the winter. Also the booking, you order a month or so in advance enables the breeder to select you better value, because most breeders book many birds ahead on receipt of a small deposit and of course select the birds of the quality desired that will be in the best condition to go out at the date of the show they are selected for. Also if you order ahead your competitors cannot purchase a bird from the same breeder for that show, as all breeders only sell to one customer for a certain show.



BUCKEYE

The Best Incubator Made

*"Built up to a standard
--not down to a price"*

Experienced breeders don't *think* about the Buckeye. They *know*! The best for 25 years and still leading. Get a never-failing Buckeye and quit gambling with your eggs.

Even if you've never seen an incubator before, you can get successful hatches with the Buckeye. It works mechanically and *can't make a mistake*.

It's so automatic that all you have to do is fill the lamp and turn the eggs. It hatches with mechanical accuracy.

Here's What We Guarantee

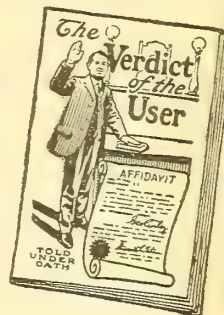
You get more chicks, bigger chicks and stronger chicks with the Buckeye than with any other incubator. We *guarantee* this. We also guarantee the Buckeye to operate satisfactorily in any temperature down to freezing.

The Buckeye Incubator is used by nearly half a million big and little breeders and sold by over two thousand of the leading dealers. Recommended by all Agricultural Colleges and Experiment Stations. We built the incu-

bator first and thought of price afterwards. That's why it has quality so sky high the "copy cats" can't touch it.

7 Sizes-- 60 to 600 Eggs

Ask your dealer or write for our Catalog and "Verdict of the User"—a book of remarkable testimony—Free.



Agents Wanted

Some very
choice territory
open.
Write quick

The Buckeye Incubator Co.

112 Euclid Avenue

Springfield, Ohio

Don't Trapnest Use My System

Gives daily record of 1 to 1000 hens. Save time, labor and expense. No worry. No risks. Use ordinary nests. Fully guaranteed. Tested 100 per cent efficient at Manitoba Agricultural College.

Postpaid \$2.00; your only expense.

R. R. HUGHES, Charleswood, Man., Can.

RHINELANDER

The Phenomenal Egg Producer

Panama-Pacific International Exposition

FOUR FIRST PRIZES

Exposition Sterling Silver Cup and Championship for Male and Female.

Eggs and Sock for Sale

A. Schwarz Box 421 Burlingame, Cal.

TENACRE

Exhibition Birds That Win! { S. C. WHITE LEGHORNS } Utility Birds That Lay!

Write for catalog and mating list.

Tenacre Poultry Farm

R. F. D. No. 3 - PRINCETON, N. J.



Questions and Answers

Conducted by Prince T. Woods, M. D.

Care and Profits.

Q. (a) If 12 hens are kept on a town lot and given all the green food, scratch food, grit, and other necessities, feeding them at regular times; or (b) if 12 hens are kept on a farm and let run, allowed to get their food anywhere, only just attending to other necessary things, is there any difference in the profits to be obtained from them?

Cambria, Wis.

Reader.

A. This question is a whole lot like the old query: "Why does a hen cross the street?" which, perhaps, may now be answered, "To collect damages from automobilists."

A farm flock that picks up its own living and receives very little attention, naturally costs very little to keep and calls for little labor; also, it is not particularly productive as a rule. The well-cared for back-lot flock costs more for labor and food, but should be much more productive than the neglected farm flock and should pay better returns because of the good care and management. The matter of actual profits, however, is one that will depend very largely upon the poultry keeper. On some farms a flock of 12 fowls could easily pick up a very good living. Some back-lot flocks, tho fed regularly and given plenty of food, may not show much profit when the

cost of labor and food is considered. Getting profits from poultry is a matter of good management and "know how" on the part of the individual poultry keeper.

Black and Silver Leghorns.

Q. (1) Why is it that such lovely chickens as the Black and the Silver Leghorns are not bred more extensively?

A. (1) Chiefly thru lack of breeders with sufficient capital to advertise them widely and popularize the varieties. Both are worthy members of the Leghorn family and could easily be made as productive and profitable as other Leghorns.

Q. (2) I am told that the Black chicks are not as hardy as other more popular varieties of Leghorns. Is this true?

A. (2) Properly bred and managed, the Blacks should be just as hardy as any other Leghorns.

Q. (3) Also am told that when they have first-class leg color they are nearly always too light in undercolor.

A. (3) This is a matter of breeding. We have handled many fine specimens with good leg color and good undercolor.

Q. (4) Is light undercolor in Blacks a disqualification?

A. (4) The Standard calls for sur-

5 New 1917 Features New Improvements Bound to Make Record-Making Hatches

NO other incubator today presents as many new innovations of real merit as the 1917 X-Ray Incubator. We have this year given it 5 New Features that more than ever assure Bigger Hatches—Better Chicks—Less Labor—Less Expense. In all, there are now 20 exclusive X-Ray patented betterments. The 1917 innovations include the X-Ray Gas Arrestor—new device that prevents lamp fumes entering egg chamber; X-Ray Nursery Tray, new feature that assures sanitation—protects little chicks; X-Ray Egg Tester, most perfect, handy tester ever conceived; New Handy Height; New 1917 Quick Cooling Egg Tray. All exclusive X-Ray betterments—never known in any incubator before perfection of 1917 X-Ray.

The New 1917 X-RAY INCUBATOR 20 Improvements—No Increase in Price!

Including, also, the X-Ray Vapor Generator; X-Ray Thermostat that automatically shuts off and turns on flame as needed to keep temperature of eggs precisely correct at all hours of the day or night without attention; X-Ray Duplex Heating System that absolutely prevents cold corners or cold sides and provides moist heat (the natural hen heat); X-Ray Central Heating System that gives direct heat and assures correct heat from all the oil.

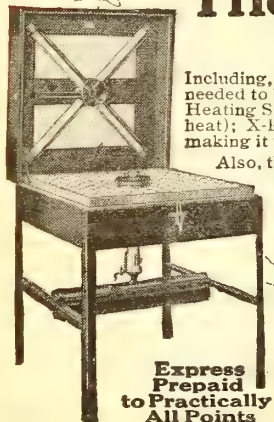
Also, the finest constructed incubator on the market—built of selected California redwood—with entire body covered and insulated with heavy enameled, ebonized steel—legs and supports heavy angle iron.

Write For the Free 1917 Book

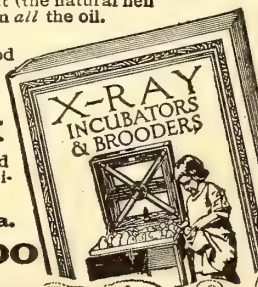
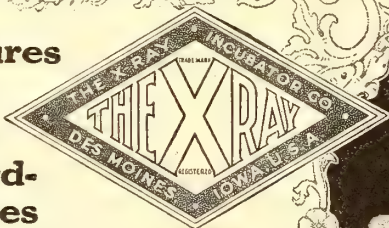
A beautiful book—packed with facts that will help every poultry raiser to add to his income—to add to his knowledge of incubator values—to know positively what to expect in an incubator. Write for it—tonight.

X-RAY INCUBATOR CO., Box 10 Des Moines, Ia.

1917 X-Ray Brooders, Too



Express Prepaid to Practically All Points



face plumage of lustrous, greenish-black; undercolor of all sections dull black. The disqualifications are: "Feathers other than black in any part of plumage; shanks other than yellow or yellowish-black."

Q. (5) Is it true that the Silvers are very bad feather pullers when kept in confinement?

A. (5) No more so than other varieties. Bad habits are the result of bad management; not of breed or variety.

Q. (6) Do both of these varieties breed true with single matings?

A. (6) Under good management and in skilled hands, so-called single matings should give good results. As a matter of fact, however, no matter what the variety, every mating is a separate problem of itself. Multiple, if not what are termed double, matings are necessary in all varieties to get best results in exhibition quality. The individual specimen and the breeding back of it has to be taken into account when mating. Go into the breeding yards of even an ardent advocate of "single mating" and, if he is successful in producing quality, you will find almost as many different kinds of matings as he has breeding pens.

Q. (7) Why are the Red Pyle Leghorns so scarce?

A. (7) Thru lack of efficient boosters and popularity.

Q. (8) How do these three varieties of Leghorns compare with other Leghorns as egg producers?

A. (8) No reason why they should not be equally good if bred right and managed right.

Q. (9) Will blue mercurial ointment, used for lice, interfere with the fertility of eggs?

Alta Loma, Cal. F. J. H.

A. (9) It might if used over-freely during the active breeding season.

Disqualifications.

Q. (1) Is it a disqualification for a pullet to have a bent toe or two, and would she be thrown out of competition?

A. (1) It would depend upon the extent of the deformity and the opinion of the judge. Crooked toes are not reckoned as disqualifications in the Standard, but are classed as defects and cut accordingly.

Q. (2) If a bird is disqualified in the show room, does it disqualify the pen she is shown in and will other members of pen suffer for her shortcoming?

A. (2) Yes.

Q. (3) Have a pullet that seems otherwise healthy, eats and drinks all right, but breathes hard so that it can be heard at some distance. Can you tell me the cause of this?

St. Cloud, Minn. J. S.

A. (3) Not without more information or examination of the bird. May be heart or lung disease, or may be canker.

Egg Farm Questions.

Q. (1) Can a one-man plant be made to show a profit with hens kept mainly for egg production?

A. (1) Experienced egg-farmers are

Illinois Pigeon Lofts

My Jacobins, Pouters, Fantails and Record Homers have won at the leading shows in the West. Thirty-five varieties, several hundred birds for sale. Write me your wants.

CHARLES A. BARTLING

108 E. Mason Street, Springfield, Illinois

The Morris White Orpingtons

are not "dancing around;" they are "on top" as proven by winnings at

Madison Square Garden

January 1, 1916

1st Cock 2nd Cockerel

1st and 4th Pullet

1st and 4th Hen 2nd Pen

Special for Best Orpington in Show.



First Cock, Madison Square, January 1, 1916

NEW YORK STATE FAIR, Syracuse, September 12, 1916

In a Quality Class

1st Cock 1st Cockerel 1st Hen

2nd Hen 2nd Pullet 2nd Pen

5th Ckrl., Best Display and Sweepstakes Cup

Not only do they win in the show-room, but as layers they are second to none. Our birds are noted for their heavy bone, true Orpington type, snow-white color and heavy laying qualities. A grand selection of

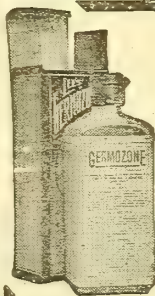
Cockerels, Pullets and Breeding Pens

now ready for immediate shipment at *reasonable* prices. Let us fit you out for your Winter Show and next years breeders. Write us.

THE MORRIS POULTRY FARM

H. Rawnsley, Manager

R. F. D. No. 1, LEBANON, OHIO



STOP THAT ROUP!

Roup starts as a simple cold in the head. The indications are watery eyes or nostrils, dirty beak, wheezing or coughing at night. Later the discharge becomes a thick mucus. A chicken cannot blow its nose. The nasal passages fill up. The face puffs out, the eyes swell shut, then death ensues. This disease is generally accompanied by "canker," a yellow or gray coating in mouth, throat or on tongue, which is similar to croup or diphtheria and is very contagious and fatal. The original cause is a damp or drafty poultry house, or extreme changes in temperature between night and day. A little Germozone in the drinking water generally prevents or checks these disorders right at the start and is especially valuable in preventing contagion. Sometimes individual treatment is necessary, but with Germozone, the work is easily and quickly done and no long, tedious "doctoring" necessary.

Liquid form, 12 oz., 50c; 32 oz., \$1.00. Tablet form, one size only, 50c, postpaid. Catalog, poultry book and sample free.

GEO. H. LEE CO.

302 Lee Bldg.

Omaha, Nebraska

Egg-o-hatch

applied to eggs during incubation strengthens the chick and weakens the shell. It supplies free oxygen, absorbs carbon dioxide and makes brittle and porous the animal matter of the shell. The biggest thing ever offered to poultrymen. 50 test hatches show average of 96% for Egg-o-hatch eggs and 81% for eggs not treated, right in same machine. Send 10 cents for sample, for 50 to 100 eggs. Full size package, for 600 eggs, 50 cents, postpaid.

Geo. H. Lee Company, 302 Lee Building, Omaha, Nebraska

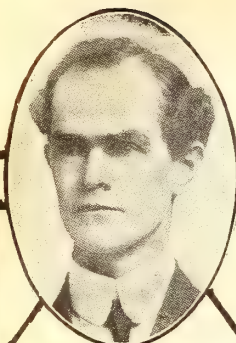
GLORY-ANNA S. C. WHITE LEGHORNS

Some extra choice exhibition and breeding cockerels to spare. Write for catalog and prices

547 South 4th Avenue

G. E. SCHULZ, Prop.

Louisville, Ky.



Prof. T. E. Quisenberry
Pres. American School of Poultry
Husbandry, Mountain Grove, Mo.
Formerly Director of Missouri
State Experiment Station.

"As Director of the Missouri
State Poultry Department I
used one of your 5000-egg In-
cubators and also some of your
Colony Brooders, which gave
such excellent satisfaction that
I am sending you an order for
a 3000-egg Incubator and some
Colony Brooders for the Amer-
ican School of Poultry Hus-
bandry."



Prof. H. P. Buchan

N. Y. State College of Agriculture
Cornell University, Ithaca, N. Y.

"I am pleased with our 2400-
egg Candee Incubator. It has
given us excellent results every
season since we started with it.
We have found the regulation
especially good even though the
machine is located in a room
where the temperature varies
greatly. The chicks it hatches
are strong and vigorous, which
indicates correct conditions of
heat, ventilation and mois-
ture."



Prof. H. R. Lewis

New Jersey Agricultural Experi-
ment Station

New Brunswick, N. J.

"We have had excellent results
with our 3000-egg Candee In-
cubator. The special feature
that appeals to us is the double
temperature control, which
maintains a very uniform and
constant temperature in all
sections. The water is so ac-
curately controlled in the sys-
tem that it rarely varies from
3 to 4 degrees in 24 hours."



Prof. F. S. Jacoby

Ohio State University
Columbus, Ohio

"The past four years we have
used our 1200-egg Candee In-
cubator and Candee Brooding
System with gratifying results.
Without drawing conclusions
in regard to success of commer-
cial hatching, we can readily
see that your equipment is ad-
mirably adapted for the pro-
duction of day-old chicks and
brooding of these chicks until
they are ready to go on range."



Mr. H. L. Holsinger

Mgr. Summit Poultry Farms
Ridgely, Md.

"In 1912 we installed our first
3000-egg Candee Incubator. We
started custom hatching and
then baby chick business and
now have 25,000-egg Candee
capacity. The demand for Can-
dee-hatched chicks is growing.
We refused one order for 200,000
but accepted one for 65,000
chicks for 1916. Only three per
cent loss with our Candee
Brooding System."

Both Professors and Poultrymen Endorse the CANDEE Incubator

You know these gentlemen whose pictures are shown above. They are some of the most prominent poultry experts in the country. Being so prominent and so well versed on hatching and poultry raising, their endorsements can be accepted as positive proof that you will be taking absolutely no chances when you install the Candee Incubator.

The Candee is not an experiment, as it has been in successful operation on thousands of poultry plants and Colleges and Experiment Stations for years, and has been proved by professors and poultrymen everywhere to be safe and sure in its results.

Why There Are More CANDEES in Use Than All Other Mammoths Combined

Automatic regulator at each compartment and regulator at heater that positively prevent overheating.

Hatches can be started at different times in the compartments of the CANDEE.

No raising or lowering of the egg trays.

No adding or drawing off of water from the heating system to get correct temperature.

It is shipped in all-built 600-egg sections—expense of experts from factory to install is unnecessary.

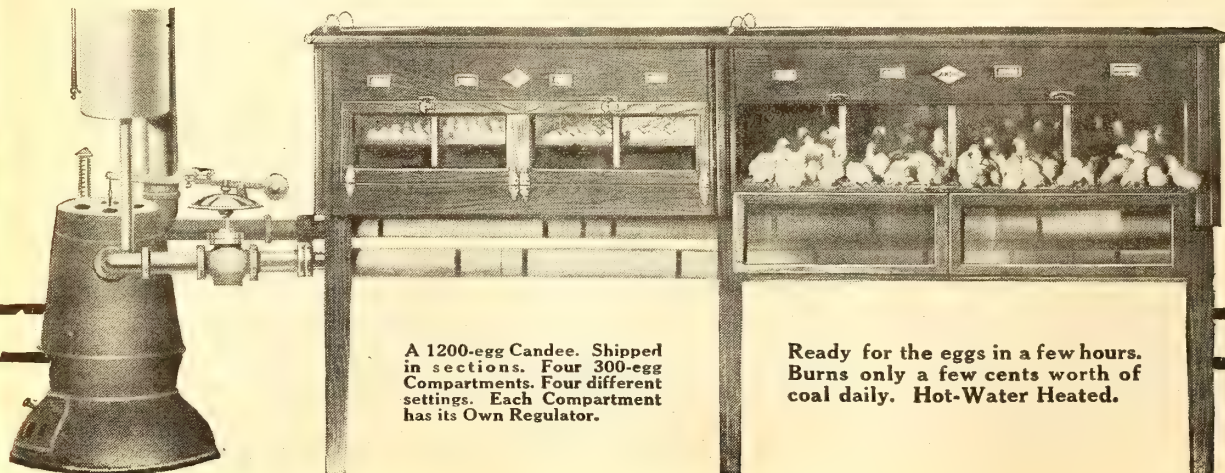
You can add more sections to the Candee any time without disturbing the original installation.

You can write your own money-back guarantee and attach it to your order for a Candee Incubator.

And there is a demand for healthy, Candee-hatched chicks.

BIG ILLUSTRATED CATALOG FREE

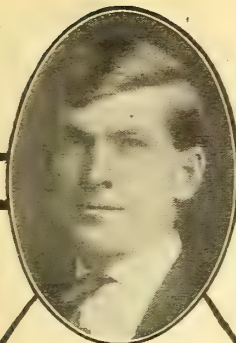
Your copy of the big, free, Candee Catalog is waiting for you. Write for it today. This catalog contains pictures of many busy, prosperous poultry plants and hatcheries in every part of the country. Shows the big Colleges and Experiment Stations and the help they will give you in your poultry-raising. Also describes CANDEE HOT-WATER BROODING SYSTEMS.



A 1200-egg Candee. Shipped in sections. Four 300-egg Compartments. Four different settings. Each Compartment has its Own Regulator.

Ready for the eggs in a few hours.
Burns only a few cents worth of
coal daily. Hot-Water Heated.

W. A.
Depart
Licensor
Incubator



Mr. R. H. Snyder
Wadsworth, Ohio

"As for my Candee Incubator, am sorry I did not get at least 3000 as I have refused more custom hatching than I could do with a 10,000 machine and not solicited one tray. I have not failed to get more than 60 chicks off a tray of 75 eggs of my own."

"The Candee Hatches are good, chicks are strong and customers are pleased."



Mr. Chas. W. Gault
Crescent Poultry Farm
Champaign, Ill.

"This has been a very busy season with us and have not been able to take care of the business that has come to us and have been compelled to turn away orders all season, having run at full capacity since February. I will have to increase before another season. Our Candee has given us the best of satisfaction, and the chicks are the kind that live and grow."



Mr. Erastus Jensen
Mfr. Manti Mammoth Hatchery
Co., Manti, Utah

"We are running our Candee Hatchery at full capacity this season and getting good hatches right along, and have sold every chick hatched as fast as taken out of the machine."

"Commercial hatching is a profitable branch of the poultry business. The demand for Candee-hatched chicks is increasing."



Mr. E. A. Scattergood
Progressive Hatchery
Wilkesbarre, Pa.

"I am a mill foreman but operate my 4200-egg Candee Incubator as a side line, and hatch and sell baby chicks in the city and find a ready market for all I hatch. Last season I sold chicks as late as August and every chick was carried away from my house by the purchasers. I also do custom hatching. I have been very successful and had lots of hatches that ran up to 85¢ and one 95¢."



Mr. J. H. McClelland
Hobart, N. Y.

"Besides being helper in the dairy end of farm work, I run 500 hens every year and a 2400-egg Candee Incubator. I have run 500 hens since the Spring of 1911. I have decided to break away from the dairy business as our profits from our poultry plant have equaled my father's profits from his 35 cows and the 160-acre farm every year."

And the CANDEE Colony Brooder Coal Burning——Self Regulating

There are many reasons why both professors and poultrymen endorse the Candee Colony Brooder:

Big and Dependable

The heater of the Candee is big and dependable, insuring plenty of heat in the coldest weather, when the chicks most need the heat.

Larger 12-inch Grate

And in warm weather, when the fire is checked most of the time, there is no danger of fire dying out in the Candee, because its larger 12-inch grate holds a much larger body of fire.

Simplest Regulator

The Candee regulator is the simplest, having only one bearing, which means free action and quick increase or decrease of heat as needed by the chicks.

Safe and Sure

Its heater base is high, cool, sealed and safe. Its coal magazine feeds the fuel to the fire evenly and continuously, and saves time and labor.

Special Colony Brooder Catalog

Write now for your copy of the handsome special Colony Brooder catalog, containing illustrations of the many superior features of the Candee, and many letters from poultry raisers who are delighted with the large number of big, strong chicks they have raised with their Candees.

All-Wool Curtain Stops Drafts

Its guaranteed all-wool curtain makes it unnecessary to heat the whole room to get the right temperature down at the floor, where the chicks are, saves much fuel and stops drafts.

Pure Air for the Chicks

Its high, flat, big all around hover gives the chicks plenty of pure, fresh air around the heater; and the specially constructed regulator draws from under the hover and changes the air, keeping it pure.

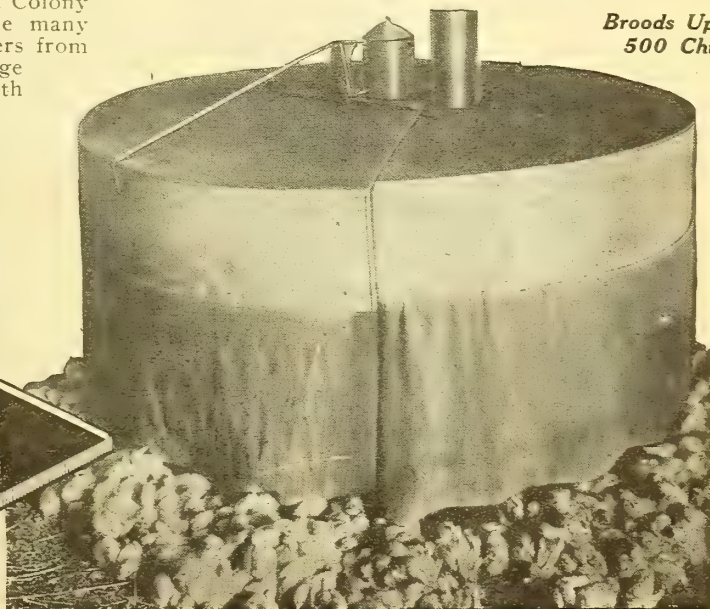
Handy Hover

The large, movable section of its hover gives the operator plenty of room to get at the heater and to attend to the fire and chicks without raising the hover.

Write Your Own Money-back Guarantee

You can write your own money-back guarantee and attach it to your order for a Candee Colony Brooder.

**Broods Up to
500 Chicks**



SCHLEIT MFG. CO., Inc.

at 2

Eastwood, New York

Candee
Brooder Co.

CANDEE



Prof. T. E. Quisenberry
Pres. American School of Poultry Husbandry, Mountain Grove, Mo.
Formerly Director of Missouri State Experiment Station.

Prof. H. P. Buchan
N. Y. State College of Agriculture, Cornell University, Ithaca, N. Y.

Prof. H. R. Lewis
New Jersey Agricultural Experiment Station, New Brunswick, N. J.

Prof. F. S. Jacoby
Ohio State University, Columbus, Ohio

Mr. H. L. Holsinger
Mgr. Summit Poultry Farms, Ridge, Md.

"As Director of the Missouri State Poultry Department I used one of your 300-egg Incubators and also some of your Colony Brooders, which gave such excellent satisfaction that I am sending you an order for a 300-egg Incubator and some Colony Brooders for the American School of Poultry Husbandry."

"I am pleased with our 2400-egg Candee Incubator. It has given us excellent results every season since we started with it. We have found the regulation especially good even though the machine is located in a room where the temperature varies greatly. The chicks it hatches are strong and vigorous, which indicates correct conditions of heat, ventilation and moisture."

"We have had excellent results with our 3000-egg Candee Incubator. The special feature that appeals to us is the double temperature control, which maintains a very uniform and constant temperature in all sections. The water is so accurately controlled in the system that it rarely varies from 3 to 4 degrees in 24 hours."

"The past four years we have used our 1200-egg Candee Incubator and Candee Brooding System with gratifying results. Without drawing conclusions in regard to success of commercial hatching, we can readily see that your equipment is admirably adapted for the production of day-old chicks and brooding of these chicks until they are ready to go on range."

"In 1912 we installed our first 3000-egg Candee Incubator. We started custom hatching and then baby chick business and now have 25,000-egg Candee capacity. The demand for Candee-hatched chicks is growing. We refused one order for 200,000 but accepted one for 65,000 chicks for 1916. Only three per cent loss with our Candee Brooding System."

Both Professors and Poultrymen Endorse the CANDEE Incubator

You know these gentlemen whose pictures are shown above. They are some of the most prominent poultry experts in the country. Being so prominent and so well versed on hatching and poultry raising, their endorsements can be accepted as positive proof that you will be taking absolutely no chances when you install the Candee Incubator.

The Candee is not an experiment, as it has been in successful operation on thousands of poultry plants and Colleges and Experiment Stations for years, and has been proved by professors and poultrymen everywhere to be safe and sure in its results.

Why There Are More CANDEES in Use Than All Other Mammoths Combined

Automatic regulator at each compartment and regulator at heater that positively prevent overheating.

Hatches can be started at different times in the compartments of the CANDEE.

No raising or lowering of the egg trays.

No adding or drawing off of water from the heating system to get correct temperature.

It is shipped in all-built 600-egg sections—expense of experts from factory to install is unnecessary.

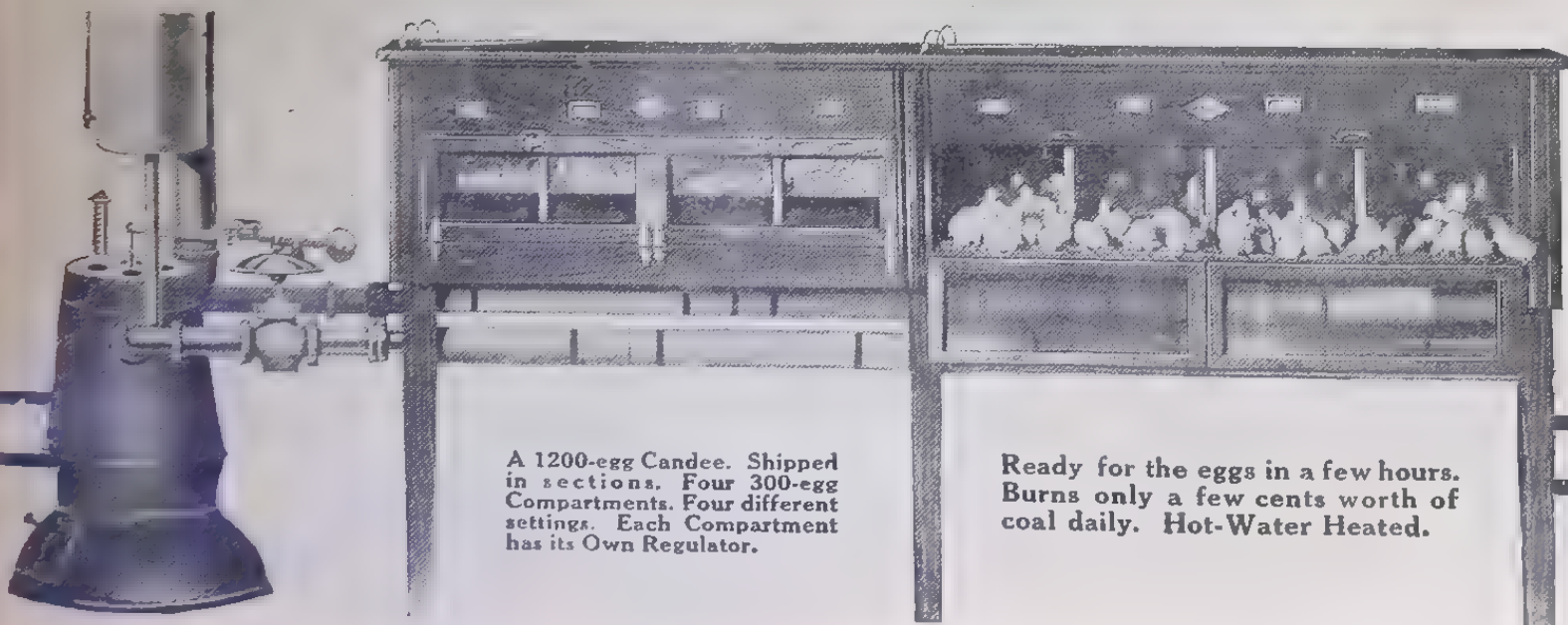
You can add more sections to the Candee any time without disturbing the original installation.

You can write your own money-back guarantee and attach it to your order for a Candee Incubator.

And there is a demand for healthy, Candee-hatched chicks.

BIG ILLUSTRATED CATALOG FREE

Your copy of the big, free, Candee Catalog is waiting for you. Write for it today. This catalog contains pictures of many busy, prosperous poultry plants and hatcheries in every part of the country. Shows the big Colleges and Experiment Stations and the help they will give you in your poultry-raising. Also describes CANDEE HOT-WATER BROODING SYSTEMS.



A 1200-egg Candee. Shipped in sections. Four 300-egg Compartments. Four different settings. Each compartment has its own Regulator.

Ready for the eggs in a few hours. Burns only a few cents worth of coal daily. Hot-Water Heated.



Mr. R. H. Snyder
Wadsworth, Ohio

"As for my Candee Incubator, am sorry I did not get at least 3000 as I have refused more custom hatching than I could do with a 10,000 machine and not solicited one tray. I have not failed to get more than 60 chicks off a tray of 75 eggs of my own."

"The Candee Hatches are good, chicks are strong and customers are pleased."

Mr. Chas. W. Gault
Crescent Poultry Farm, Champaign, Ill.

"This has been a very busy season with us and have not been able to take care of the business that has come to us and have been compelled to turn away orders all season, having run at full capacity since February. I will have to increase before another season. Our Candee has given us the best of satisfaction, and the chicks are the kind that live and grow."

Mr. Erastus Jensen
Mgr. Mantl Mammoth Hatchery Co., Mantl, Utah

"We are running our Candee Hatchery at full capacity this season and getting good hatches right along, and have sold every chick hatched as fast as taken out of the machine."

"Commercial hatching is a profitable branch of the poultry business. The demand for Candee-hatched chicks is increasing."

Mr. E. A. Scattergood
Progressive Hatchery, Wilkesbarre, Pa.

"I am a mill foreman but operate my 4200-egg Candee Incubator as a side line, and hatch and sell baby chicks in the city and find a ready market for all I hatch. Last season I sold every chick as late as August and every chick was carried away from my house by the purchasers. I also do custom hatching. I have been very successful and had lots of hatches that ran up to 85% and one 95%."

Mr. J. H. McClelland
Hobart, N. Y.

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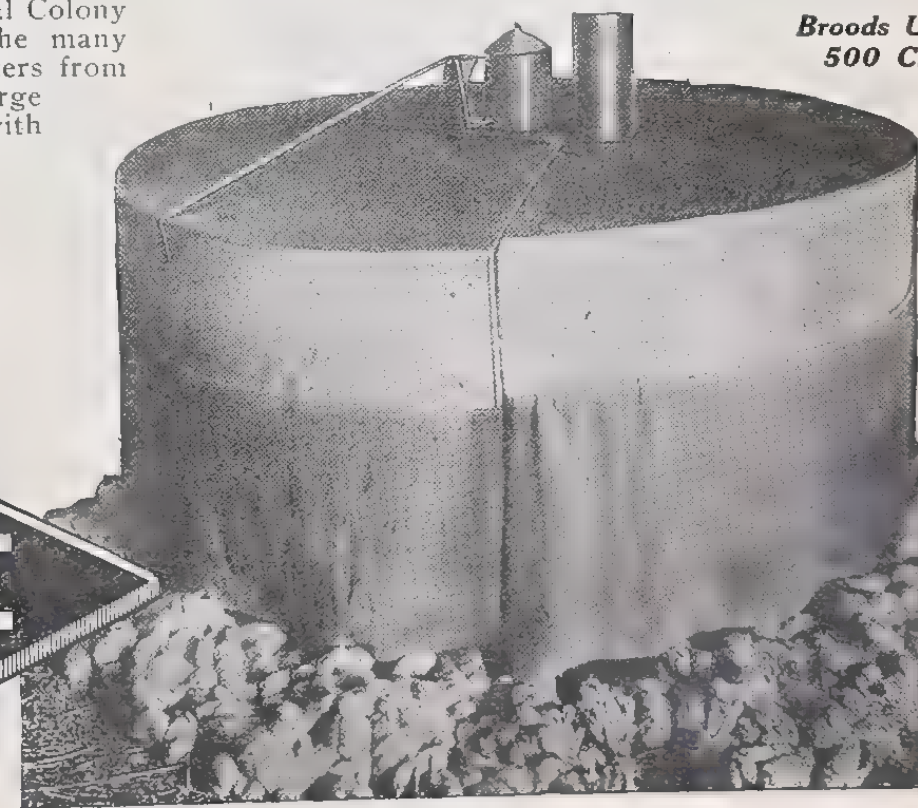
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Broods Up to 500 Chicks



W. A. SCHLEIT MFG. CO., Inc.

Department 2

Eastwood, New York

Licensor of Candee Incubator & Brooder Co.

CANDEE



Chicago & Alton

"The Only Way"

Chicago—St. Louis —Kansas City

All you can seek in swift, silent, capable railroad service is yours on the Alton. Here you meet your railroad ideal.

Frequent trains, a threefold factor of safety, solicitous yet unobtrusive attendants, all combine to make you "at home," whenever or wherever you travel.

Just Ask

for information regarding that trip you may be thinking of.

H. K. McEVOY

General Agent Passenger Department
142 S. Clark St., Chicago, Ill.

\$1.00 EACH

For splendid S. C. Leghorns, lusty pullets and yearlings; chesty cocks and cockerels. June pellets and cockerels 75 cents each.
Harrison Leghorn Farms Shelby, Mich.

Mention the AMERICAN POULTRY JOURNAL when writing to advertisers.

getting their living from such plants. Profits in egg-farming are somewhat dependent upon a favorable location, but chiefly upon the "know how," skill and enterprise of man who operates the plant. Some successful egg farms are located long distances from a railroad station and have to make long hauls of all supplies and of the produce.

Q. (2) How many layers can one man safely care for?

A. (2) 2,000 with good management.

Q. (3) How big a farm is necessary?

A. (3) You could house and yard them on 5 acres, but to go into egg-farming we would want a farm of not less than 20 acres.

Q. (4) What is the best location, near a city or in a small town?

A. (4) On a good road within reasonable distance of a railroad station having good shipping facilities and within easy reach of a good sized city. Cost of getting supplies and of shipping produce should be considered. Good roads and the possibilities of reaching customers direct by light auto truck conveniently, and at small expense, is a matter worthy of your attention in choice of a location. On good roads the possibility of trade coming to the door is one that needs developing. We sell a good many eggs to automobilists at good prices, tho we are not on a "state road."

Q. (5) Is it best to try to raise your own feed?

A. (5) You cannot raise all you require and give proper attention to egg-farming. It is well to grow some grain and straw.

Q. (6) How much capital is required to start?

A. (6) That is a matter we cannot decide for you. You cannot expect capital invested in a poultry plant to pay you bigger returns than it would in any other legitimate business enterprise. To start with everything paid for would require a good deal of capital,

USE KEY- RING-O



LEG BANDS

Best means of identifying birds WITHOUT HANDLING.

Used by leading Poultry Raisers everywhere. Very light, practically indestructible; made in ten colors.

Send for full information and our free book, "Increase Your Profits."

NEWELL & GORDINIER

Manufacturers
TROY, NEW YORK

Keeps Water at Even Temperature All Year 'Round

Absolutely sanitary. Water cannot be polluted. Prevents disease. Saves work. Increases egg yield. Ira Franklin, Mgr., Farmers Grain Co., Atkinson, Illinois, says: "The

Ideal Sanitary Fountain is the best I ever used." Made like a fireless cooker, of heavy galvanized iron, strong and durable. See it at dealer's. Send for circular, testimonials of satisfied users, and low prices. Rockford Poultry Supply Co. Lock Box 31-201, Rockford, Ill.



Buff Plymouth Rocks S. C. White Leghorns

Eggs half price balance of the season
FRANK C. COLE, VAN WERT, OHIO

Change failure to success! Tycos Thermometers are absolutely dependable. Each one severely tested before leaving the factory. You'll hatch out more chicks every time. Found in all the best incubators. Cost no more than "ordinary" thermometers, yet thoroughly accurate. Equip your incubators with them. Ask your dealer—or write us. Send for free booklet.

Tycos Hygrometers	each	\$1.50
Tycos Certified Incubator Thermometers	"	1.00
Tycos Incubator Thermometers	"	.75
Tycos Brooder Thermometers	"	.75
Tycos Electrical Alarm Thermometers,		
express prepaid	"	5.00

Taylor Instrument Companies
100 Ames Street
Rochester, New York

Tycos

INCUBATOR THERMOMETERS

and provision would have to be made for expenses until the plant was on a paying basis. Some of the most successful egg farmers have started very small, on heavily mortgaged farms and with little or no capital. These men found other work to pay the living and poultry expenses until they were able to make the poultry pay.

Q. (7) What would be a reasonable profit per hen a year?

A. (7) With good management about \$1.00 per bird to pay for your work.

Q. (8) What would be the best breed for the work? I am very fond of the Barred Rocks.

A. (8) That is a matter for you to decide. The Barred Rocks are an excellent variety. The leading popular varieties in the American and Mediterranean classes are all good for egg farm purposes.

Q. (9) I am a great lover of chickens and have handled them in a small way for several years. Have been successful and have had Barred Rock pullets laying in September and cockerels to weigh 6 to 7 pounds each at that time. Do you think I would have a good chance as an egg farmer?

Van West, O.

O. L.

A. (9) If you begin small, take advantage of all your opportunities, have plenty of determination, push and pluck, we can see no reason why you should not succeed as well as others who have gone the same road.

Drinking Water.

Q. (1) Almost every writer on poultry emphasizes the importance of a good supply of fresh water for poultry, but I seldom see a suggestion as to the kind of drinking vessels to keep it in. Please give some suggestions along this line, and tell us the advantages or disadvantages of vessels that keep the water warm.

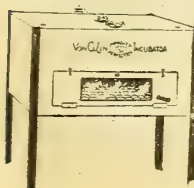
A. (1) For adult fowls, we prefer to use 12 and 14-quart galvanized iron pails. Pans of same material are good if placed on a shelf and protected by slats. Best watering system is by drip faucets from a piped supply from tank or spring having sufficient "head" to deliver enough pressure. We prefer to give our poultry cold drinking water, direct from the spring. Warm drinking water does not appeal to us and we do not believe that the fowls like it or do as well on it as with cold water. Experiment Station tests prove that fowls do well on clean snow in place of drinking water in winter weather.

Q. (2) Also with reference to nests, I seldom see much with reference to the construction and placing of nests. If I am not mistaken in your book on open-front houses you do not give any plans for nests. Please give us some suggestions on nests.

Richmond, Ind.

W. A. A.

A. (2) Location of nests is usually a matter of convenience. Where droppings boards are used, they may be placed under same. Nests may also be located at convenient height on side



Von Culin Incubator

The oldest make on the market. The latest up-to-date incubator. Made of sheet metal. Double and packed walls. Light and compact. Equipped with Von Culin Fireproof Lamp. Thermometer slides thru door. Price to compete with inferior makes. Catalog free.

GEO. WATSON BEACH, Mfr., Dept. 15, 126 Liberty St., New York

Make Hens Lay Now While Eggs Are High

Your hens will lay now if you provide right conditions. During spring and summer they find many things they need to keep them in health, and they lay heavily. In winter you must supply these necessities if you want eggs.

Pratts Poultry Regulator

serves this purpose fully. It is a combination of roots, herbs, mineral substances, etc., which spices the mash mixture and induces the birds to eat greedily; aids digestion; enriches the blood; improves circulation; speeds up the egg-producing organs; puts the fowls in the pink of physical condition; **MAKES THEM LAY.** And all at a cost of about one cent a bird per month. Pratts Poultry Regulator will increase your profits.

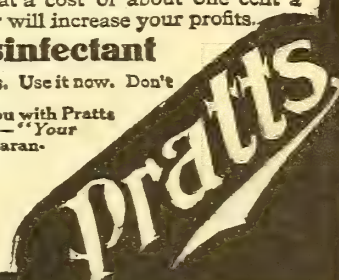
Pratts Poultry Disinfectant

will keep the houses sanitary and kill disease germs. Use it now. Don't let disease get a foothold in your flock. Our dealer in your town has instructions to supply you with Pratts Preparations under our square-deal guarantee—"Your money back if YOU are not satisfied"—the guarantee that has stood for nearly fifty years.

Write for 64 page Poultry Book—FREE.

PRATT FOOD COMPANY

Philadelphia Chicago Toronto



UNBEATABLE



\$9.85 BUYS BOTH

You can't beat the Progressive when it comes to getting record hatches of strong, robust chicks—healthy chicks that pay good profits—chicks that dodge the great chick graveyard.

How the Progressive Safeguards Hatches

It is because of the hundreds of dead air cells around the hatching chambers that makes the Progressive the **Record Hatcher**. This protects against sudden outside changes. It conforms nearest of all incubators to natural, healthy hatching by maintaining from start to finish even, moist, fresh air temperature. No dry, hot blast to cook your eggs. No hatches spoiled by failure to keep just the right heat all the time.

Built of Genuine California Redwood, equipped with Standard Double-Disc Heat Regulator, special Safety-Lamp, Egg Tester, etc. **Your money back with 8% interest if not satisfied.** Send for Big Free Book—it tells the whole story. Special deal if you mention this paper.

PROGRESSIVE INCUBATOR COMPANY
Box 135 Racine, Wisconsin

FREIGHT PAID
EAST OF ROCKIES



"CLUCK-CLUCK"
THE HEN'S CALL FOR
CRYS-CO. The Universal Favorite
A HARD, SHARP AND CUBICAL
YET SOLUBLE GRIT.
99% PURE CARBONATE OF LIME.
IN A CLASS BY ITSELF
Not to be confused with common Limestone and Marble Grits which are soft.
SAVES BUYING OTHER GRITS.
WRITE FOR BOOKLET
W.A. NEUSITZ CO.
DEPT. C ST. LOUIS, MO.



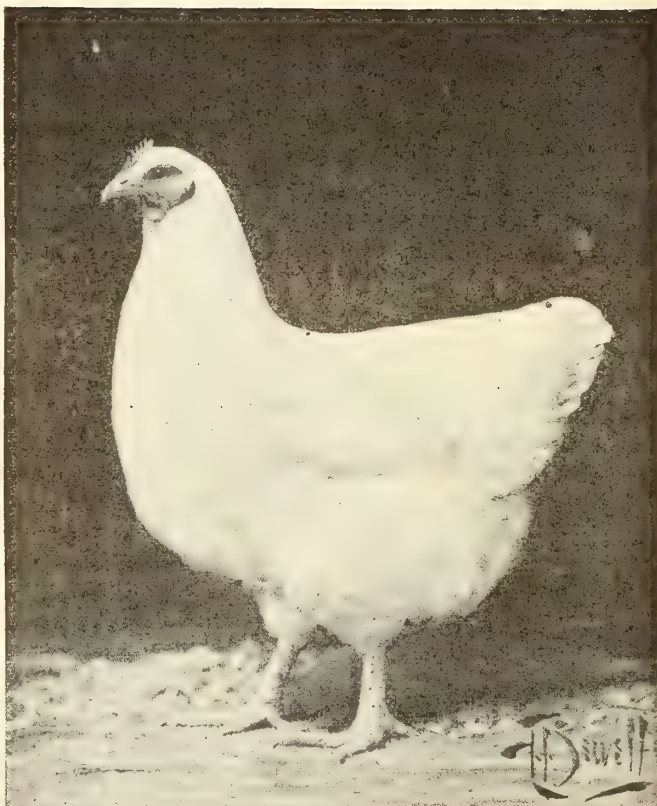
BUFF ROCKS

C. R. BAKER

Box A

ABILENE, KANSAS

First Prize winners at Madison Square Garden, N. Y., World's Fair, San Francisco and leading shows for *ten years*. Bred right, are right. Fine lot of stock.



FIRST PRIZE WINNERS, OHIO STATE FAIR, COLUMBUS, AUGUST 28-SEPTEMBER 1, 1916
V. R. FISHEL, HOPE, INDIANA.

walls and partitions. Where nests are not located beneath drop-boards we prefer to give them a roof or cover with sharp pitch so that birds cannot roost on them. Make nests in groups of two, four, or more for convenience. Allow sufficient head room for size of layers kept. For large breeds we like nests about 12x14 in. and from 10x12 to 12x12 for smaller breeds. Usually construct them to face away from light with a runway for birds between wall and nest.

Pekin Ducks for Exhibition.

Some of our readers wish an article on how to mate, breed, feed, select and condition Pekin ducks for exhibition purposes. We suggest that Pekin duck breeders send in articles on this subject for the good of the cause.

Out of Condition.

Q. (1) I have two Buff Orpington pullets and a 2-year-old male that are sick. They just sit around with heads drawn close to body and do not eat. The male I bought and the pullet I raised. Please tell me what to do for them.

A. (1) Put birds into a warm coop, well bedded with straw. Mix a teaspoonful of brandy with half a cup of warm milk and give each bird a tablespoonful of this four or five times a day. When they show interest in food, give only a very little moist mash mixed with warm milk, for first few days, then feed grain and green food.

Q. (2) I have been considering the building of a poultry house made of cement blocks with walls plastered smooth so there will be no hiding place for mites. Will a house like this be cool in summer and warm in winter?

South Holland, Ill.

W. L.

A. (2) Properly built, such a house should give satisfaction.

House Alterations.

Q. I have a poultry house 7 ft. deep, 8½ ft. wide, 5 ft. high at back and 6½ ft. high in front. I want to make it into a Woods' style house. What dimensions should I make the front addition for best results? The back and sides are now tight and the front all open, with door on one side.

Muskogee, Okla.

J. L. W.

A. Leave room at top of present house to get two 3-pane 8x10 in. glass cellar windows in the monitor top. These windows to be hinged at the top and swing out. Make front addition 5 ft.



DECEMBER EGGS

From Your Pullets If You Feed

Blue Ribbon Laying Mash

Contains Ground Grains, Meat and Fish Scrap and Alfalfa. 20 to 22% Protein

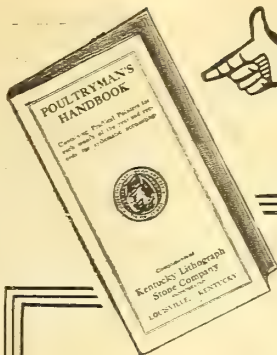
Blue Ribbon Scratch Feed

The Standard Hard Grain Ration

These two feeds will increase your egg yield and lower feeding costs.

Ask your dealer for them.
If he can't furnish them, write

GLOBE ELEVATOR COMPANY
25 Seneca Street Buffalo, New York



This Handbook FREE!

It Contains Practical Poultry Advice

for each month of the year and a **Systematic Method of Accounting** which includes Egg Records, Hatching Records, Receipts and Expenses. Every poultryman should have this handbook. Time nor expense have not been spared in preparing it, and it will be found of the same high merit as



KENTY GRIT

The only grit that has the combined features of insuring perfect digestion, while at the same time providing the mineral food that produces egg shells and rich eggs.

Kenty Grit is hard, sharp and cubical. It is the hardest limestone grit in existence. Write us for the proof.

KENTUCKY LITHOGRAPH STONE CO.
(Incorporated)
710 W. MAIN STREET LOUISVILLE, KY.

Kenty Grit
MAKES THEM LAY, WEIGH & PAY THE PERFECT GRIT

1c a Day for 30 Hens

Would you pay it to put your layers in trim? To get eggs in quantities now in December? That's all it costs to condition your fowls, keep them healthy and in a laying humor by feeding

Dr. Hess Poultry PAN-A-CE-A

It Brings Winter Eggs

So sure am I that Dr. Hess Poultry Pan-a-ce-a will help to keep your poultry healthy and make your hens lay that I have told my dealer in your town to supply you with enough for your flock and if it doesn't do as I claim, return the empty package and get your money back.

Pan-a-ce-a is never peddled. Sold only by reputable dealers. If your dealer does not handle it, write us. 1½ lbs., 25c; 5 lbs., 60c; 12 lbs., \$1.25; 25-lb. pail, \$2.50 (except in Canada and the far West). For book on Poultry Culture, address

DR. HESS & CLARK
Ashland
Ohio



Three Big Reasons

why you should tell us what capacity and make incubators you now have, and get our Special Proposition on replacing them with



Blue Hen Mammoth Incubators

FIRST—Blue Hen Automatic Egg Turner

Turns every egg in five seconds, in any **Blue Hen Mammoth** up to 10,000-egg capacity; a few seconds more in larger sizes. Saves time, labor and eggs. Requires *seconds* where other machines require *hours* for egg turning. No lifting of heavy trays in and out.

SECOND—Largest capacity in smallest space

The same space that is required for a 3,000-egg, single-deck machine of other makes, will house a 4,000-egg **Blue Hen** or an 8,000-egg, double-deck **Blue Hen**, using but one heater. Easy to put a **Blue Hen Mammoth** in your dwelling cellar, and save building costs.

THIRD—You don't have to "sit up nights"

It's all right to "go to bed with the chickens," but why "sit up nights with the eggs?" The **Blue Hen** is a *Dependable Incubator*—its regulation is absolutely automatic—it gives the proper heat, fresh air and moisture without your attention. *And the temperature is always right.*

There are dozens of other reasons why you should not continue to worry along without a **Blue Hen Mammoth**. Our new **Mammoth Incubator Catalog** gives them—the experience of our users *proves* them.

Write to-day for full information and replacement proposition.

Blue Hen Colony Brooder

The big brooder at the little price

\$14.50 size large as many others rated as "thousand capacity"

Large Powerful Cast Iron Heater

Furnishes abundance of steady, uniform heat. Exclusive safety device prevents thermostat wafer bursting—fire always automatically controlled.

Exclusive Curtain Feature

Special curtain attachment (not shown in cut) furnishes plenty of fresh air but prevents floor drafts.

Many other special features.

Heat Held Down Around Chicks

Hover different from others. Holds heat down around the chicks' backs—where you want it.

No Overheating

The only Hot Air Brooder that warms a large floor area without overheating the brooder house.

Separate New Brooder Catalog Now Ready—24 pages. Send for your copy to-day.



*Prices \$1.00 higher west of Mississippi

WATSON MFG. CO., Drawer 21 Lancaster, Pa.

Good Territory Open for Dealers and Farmer Agents

S. C. White Leghorn Winners

Grand Cockerels and Pullets for sale. Bred direct from my Chicago Winners. Write today; every bird guaranteed to please. Free catalog.

F. D. ROGERS

Douglas Road, ELGIN, ILL.

high in rear and 3½ ft. high at front, leaving wire netting opening in front practically 3x8½ ft. Floor dimensions of front addition to be 6x8½ ft.

Slow Maturing Pullets.

Q. I have 27 young Rhode Island Red pullets, all rich red in color. They are about 6 months old, but do not seem to take on any fat. They eat well and act well, but combs are small and pale. They do not look as bright as some other pullets that are laying.

St. Charles, Mo.

E. W.

A. They are probably all right but a little slow in maturing. Get more good beef scrap or fish scrap into their mash ration. Give plenty of greens and feed liberally.

Canker.

Q. I have over 100 fine pullets, most of which are afflicted with canker. I have tried many remedies and not found a cure. Can you help me? Are they fit to breed from?

Winslow, Ariz.

T. C. B.

A. Clean up and disinfect the poultry house. Burn all musty or mouldy litter. Be careful not to feed any musty or mouldy grain. Add about 5 per cent flowers of sulphur to the daily mash for a week or ten days. Dust canker patches with following: Mix one grain powdered permanganate of potassium with one ounce of finely powdered milk sugar and a little powdered gum arabic. Apply to canker patch with a fine brush or with a blow pipe. When it touches the moist parts it will turn purplish color. Always mix fresh lot of powder as needed. If canker is the only trouble, would not be afraid to breed them.

Bringing Out Exhibition Quality.

Q. Will you please explain this? In article in November issue on "How to Secure Exhibition Quality" the author, C. H. Latham, says: "A high-bred bird will not grow and thrive under some

High Yielding Egg Strain

Buff Wyandottes White Leghorns

Bred for large egg yield; handsome stock, winners at Madison Garden and Boston shows. Best Winter laying hen at fourth Storrs' Egg Contest, 246 egg record at third Storrs' Contest. Maturing pullets and cockerels now ready to ship, for breeding, winning, and laying! Circular for asking.

DR. N. W. SANBORN

924 South Road Holden, Mass.

Poultry Patents Pay

Your invention if protected and developed may bring big returns. I make a specialty of poultry patents. Submit drawings or model. New booklet out soon.

LESTER L. SARGENT
Corner of G and Ninth Streets
WASHINGTON - D. C.

Orpingtons and Sussex

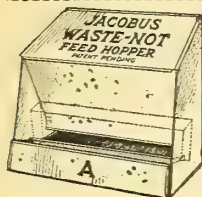
(Buff and White)

(Speckled)

Of the highest type and quality, both for the breeding pen and exhibition room. Write me your wants. Prices very reasonable. Satisfaction guaranteed in all cases.

C. A. KEEFER

Muskegon, Michigan



PREVENTS WASTE Reduces Feed Bills

Catch tray A collects waste and returns it when inverted to close hopper against rats and mice at night. (See dotted lines.)

M. R. JACOBUS
Box 5-J Ridgefield, N. J.

Bales' R. C. BLACK MINORCAS

Chicago and Springfield winners.

Eggs for Hatching.

J. S. BALES Box 17, Route 2 SPRINGFIELD, ILL.

EAKIN'S WHITE WYANDOTTES

Get our prices on winners for your fall show.

F. M. EAKIN Box A BUCYRUS, O.

Howison's Buff Wyandottes

Blue ribbon winners at San Francisco and both Chicago shows. Stock for sale.

CHARLES HOWISON, Box 20, Sandwich, Ill.

Andrews' Blk Orpingtons

Winners at Brooklyn and the Grand Central Palace, New York. I can furnish you with birds that win. Order eggs for hatching early. Prices reasonable. Silas H. Andrews, 208 2d St., Mineola, N. Y.

S. C. White Leghorns and White Wyandottes

A few good breeders for sale. Write us for prices. P. J. FERRIS, Box A, CUYAHOGA FALLS, OHIO

Almendinger's Rose Comb Wht. Leghorns

Won at Buffalo, the past 5 yrs., 4 firsts and 3 seconds on ecls., 3 firsts and 3 seconds on pils., and all firsts on hens. Choice birds, or eggs for hatching.

A. F. ALMENDINGER, 180 E. Delavan Av., Buffalo, New York

URBAN FARMS PINE RIDGE, BUFFALO, N. Y.

White Rocks, Black Langshans, Black-Tailed White Japanese Bantams, Mille Fleurs, Silkies, White Leghorns and White Wyandottes.

SPECKLED SUSSEX, RHINELANDERS

BLUE ORPINGTONS

REV. W. BERBERICH The Maples GROTON, NEW YORK

Use LICEOFF

(THE MODERN LICE KILLER)

LICEOFF COMPANY, GREEN BAY, WIS.

The W. Wyandotte Poultry Yards

Won Firsts at Boston, Madison Square Garden and Palace N. Y., Philadelphia, Worcester in 1915, 1916—winners of Mass. State Cup. Stock for sale—Cocks, Hens, Cockerels, Pullets.

H. J. W. Fay, Prop., Westborough, Mass

conditions that a cross-bred or ordinary bird will thrive under."

Now the type of bird most profitable on a farm is one that will pick up a good share of its living during the summer months. Would this be an argument for a farmer keeping any but pure-bred stock?

I am breeding for utility and fancy and my experience has been that the pure-bred stock will outgrow and outweigh the mixed stock under the same conditions; i. e., free range with a light feed of grain mornings and evenings.

North Lawrence, Ohio. C. C. H.

A. In considering Mr. Latham's statement you should bear in mind that he was writing about bringing out the exhibition quality in the birds,—practically continuous "conditioning" from shell to show room in order to develop the highest exhibition excellence. In order to get exhibition quality that will win in hot competition,—that will show all that has been bred in the bird in color, feather, type and fashion,—special care and special grooming is necessary. We believe that is the point he was emphasizing. You cannot get the same results in exhibition excellence in two lots of chickens from the same parent stock, where one lot "roughs it" under ordinary farm conditions and the other lot is carefully managed and groomed all thru the growing season in a fancier's small flocks.

There is no doubt about pure-bred fowl being desirable on the farm and they will "rough it" and do well,—will be useful and beautiful specimens,—but compare them with birds of the same breeding that have been conditioned for exhibition excellence from the start and you will not find them as well furnished or finished. We do not know of any domestic creature that shows to such a marked extent the effects of skilled care, feeding and grooming during the developmental stage and all thru life that is shown by pure-bred poultry.

The farmer, who does not care about maximum results in exhibition excellence, who, if he shows at all, is satisfied with a ribbon at the county fair and cattle show, finds, as you say, that thorobreds outgrow, outweigh and outlay mongrels and mixtures, and that should be sufficient to satisfy him that pure-breds are best. He will have some birds that are good enough to win and he is not seeking to produce and sell winners for the hot contests in the big classes of our great poultry exhibitions.

For Sale—Cheap

Mammoth incubators, all makes, capacity from 600 to 10,000 eggs; which have been replaced by Blue Hen Mammoth Incubators. Good condition guaranteed. Send for list; tell size and make you especially desire.

Watson Manufacturing Co.

Drawer 21

Lancaster, Pa.

Banks' S. C. Reds

Winner A. P. A. Gold Medal

Best Cockerel, Harrisburg, Pa., Dec., 1915

Satisfaction guaranteed.

Send for Mating List.

M. H. Banks, Dillsburg, Pa.

CHAMPION

Rhode Island Reds

won 1st Hen and 4th Cockerel at Greater Chicago Show, January, 1916, only three birds entered. Eight 1st Prizes, three 2nd, two 4th and one 5th prizes at Hammond, 1915 and 1916.

Young and Old Stock For Sale.

FRANK JOHNSON, 220 W. 110th St., Chicago



RABBITS

Tells all you want to know about Rabbits. Our book: "The Rabbit; How to Select, Breed and Manage the Rabbit and Belgian Hare for Pleasure or Profit," by breeders of long experience with rabbits. Sixth edition, nicely illustrated, enlarged and much improved. Price 25 cents with sample copy of the AMERICAN POULTRY ADVOCATE containing Belgian Hare Department. Poultry Advocate Dept. 252, Syracuse, N. Y.

Trethaway's Anthracite S.C.B. Minorcas

Every year for 25 years winners have been hatched from my eggs all over the country. Four of the best pens I ever put together. All headed by a yearling cock mated with hens. Eggs, \$5.00 per 13; \$9.00 per 26. I replace unfertile eggs.

ARTHUR TRETHAWAY, 45 Parrish St., Wilkes Barre, Pa



WHY do you fight

competition without the proper implements?

Lend distinctiveness to your stationery, advertising matter, and all printed matter by the use of some of the handsome cuts shown in our new

CUT CATALOG

When you go after a sale, have your letterhead and catalog say to the customer by their appearance—"I am from a first-class responsible firm. You can see we are treating our customers right and making money, because we are well dressed." Lift them out of the rut; it is not necessary to have special photographs taken—we have some illustration or design in our catalog that is just what you are looking for. The catalog is FREE. Send today.

AMERICAN POULTRY JOURNAL PUB. CO., 542 S. Dearborn St., Chicago, Ill.

Wyckoff's S. C. W. Leghorns

Acknowledged Everywhere the World's Greatest
Laying Strain—Unequaled in Standard Qualities.

REMEMBER that we are the originators and for thirty-five years specialty breeders of the justly celebrated Wyckoff Strain of S. C. White Leghorns—the most profitable strain of poultry in America today. Place your orders at headquarters and make no mistake.

We are now offering hundreds of fine

C. H. WYCKOFF & SON

yearling hens, yearling cocks and April, 1916 hatched free-range-reared cockerels and pullets, all a grand lot of birds that are sure to please. As the demand is very great, we advise that you place your order early. Send for catalog and testimonials from satisfied customers from all over the world.

Address,

AURORA, CAYUGA CO., N. Y.

Speckled Sussex

My first prize Quincy pullet has now laid 218 eggs in 256 days. A few of her cockerels for sale. I expect to be sold out entirely long before the end of the season, as on October first I had sold over half the birds I raised this season. Every bird on my place was sired by the son of a first prize winner at Chicago, Madison Square or Crystal Palace (England). If you will tell me number of birds you want to buy and amount you wish to invest, I will send you sample feathers and description of the individual birds. Circular free.

CHAS. A. SIMMONDS

CAMP POINT, ILLINOIS



1st Cockerel, 2nd Cock and 1st Pen Ckl., New York, 1913

Black Langshans

First prize winners every year for ten years at New York, Chicago, or Indianapolis.

(Jan., 1916, we won **four** firsts at Madison Square Garden, N. Y., and **five** firsts at Indianapolis—the National Langshan club show.)

Show Birds of the very highest quality for sale. Satisfaction always.

M. S. Barker, R. R. 1, Thorntown, Ind.

Trap-nest Your Layers

and trap-nest them with a nest that prevents breaking and eating of eggs. The Automatic Trap Nest does this and more. It is the most economical and satisfactory trap nest on the market. Write for full particulars and prices. We also sell feed hoppers and drinking fountains.



Celluloid Leg Bands
12 for 15c; 25 for 30c; 50 for 50c; 100 for 75c.

Aluminum Leg Bands
12 for 15c; 25 for 25c; 50 for 40c; 100 for 65c.



AUTOMATIC TRAP NEST CO. 475 Wisconsin St. KENOSHA, WIS.

Royal Blue Orpingtons Black Orpingtons and Speckled Sussex

Winners at Madison Square, New York, Chicago Coliseum, Milwaukee, Greater Chicago, Indianapolis—not years ago, but the season just passed. Our Blues have been the big winners at Chicago Coliseum for two years. We have a fine lot of old and young stock in these varieties to sell—the kind that will help you win highest honors whatever the competition; birds with type, size, superior color, vigor. Write us to day; it will pay you.

RAU & FRY, HAWTHORNE POULTRY FARM

Grand Hotel

Indianapolis, Indiana

OUT OF THE EAST

BY P. K. WHITE

If you live in a section where there is a heavy snowfall and find the shoveling of the snow thru your yards made extra hard on account of the gates, I would suggest that you try the idea used by Charlie Seigel of Sunset Poultry Yards, Oineyville, R. I. In place of hinges, which are costly, he uses the ordinary screw eye and hanger hook. They are very cheap, more durable than hinges and it takes but a second to lift the gate off altogether and put it away until spring. Taking off or putting back requires no tools whatsoever.

A man who doesn't advertise, is just like the man who winks at a woman in the dark. He knows what he is doing but she don't.

Henry Frick, the magnate, is building what he claims will be the largest poultry plant in the world when completed.

You can't get ahead, if the iron in the fire isn't kept hot.

If you are interested in advancing the S. C. White Leghorn, see that your ballot for president is marked for Chas. J. Fisk of Trenton Junction, N. J., owner of Wilburtha Farms.

You can't do any good by worrying about the election—so go on with the winter show season.

Harold Rawnsley, brother of "Len," has accepted the position of manager of Morris Poultry Farm, Lebanon, Ohio. Those who know Harold as well as I do, know full well that he will make a success of his new venture. Good luck to you, old boy.

American Rhinelander Club has recently been formed and the following gentlemen compose the list of officers: A. Schwarz, Burlingame, Cal., president; Rev. W. Berberich, Groton, N. Y., vice president; Mrs. F. Lager, Bullville, N. Y., secretary.

It may be wicked to work on Sunday, but when I see a man needs help, I am right there with the assistance. Called at Morris Poultry Farm, Bridgeport, Conn., a few Sundays ago and the help was away for the day. Mr. Morris had to ship two pens of birds for customers for a contest that opened Tuesday, so it was a case of get busy.

One of the most wonderful sights I ever witnessed happened while on a recent trip to Hickory Farms, Townsend Harbor, Mass. Arriving there about eight o'clock at night I noticed the skies shooting forth a number of lights which reminded you of hundreds of searchlights. This was my first view of the northern lights and it was a sight that will never fade from my memory.

Pay more attention to your advertisements and your advertising will pay more attention to your business.

"Jimmy" Glasgow tells that he danced before the King, but I watched him at Syracuse and noticed he fell down on the "Castle steps."

The highest record bird at Storr contest was a White Leghorn with a record of 287 eggs. She was sold to Morris Poultry Farm, Bridgeport, Conn.

The greatest record ever made by a Red at the Storr's contest was made by a bird owned by Pincrest Orchards of Groton, Mass. This bird made a record of 260 eggs.

When speaking of successful poultry women and women who really know birds, don't forget that real authority, Miss Griott of Homestead Campine Farm, Wayland, Mass.



ATHERTON'S FAMOUS SILKIES

The REAL Birds

EGGS \$6.00 per setting; two settings, \$10.00.

Single Birds, \$5.00 to \$25.00

W. B. ATHERTON
Randolph - Massachusetts

If you have never been in the east, it is worth your while to come here and see some real poultry plants. Every day I find a new one that I never heard of before. I don't mean back lotters, but real plants. In the last issue I said we had the poorest and the best Barred Rock farms here in the east. Well, since then I have visited another plant that must go in the real class. It is W. W. Carpenter, East Providence, R. I.

Keep your eye on the Boston show this year. It will be the biggest and best ever, for Brother Atherton is leaving no stone unturned to get all the boys out.

Competition is the life of trade. At least W. F. Hayward of Westboro, Mass., thinks that way, for he is working night and day to see that all White Rock breeders of the country exhibit at the National meet, which will be held at Boston this year.

Providence, R. I., thru Secy. Brown, is working hard for a banner show. He has selected the best of judges, among whom is J. W. Andrews, the well known White Wyandotte breeder of Dighton, Mass. Good idea, Mr. Brown. Other show secretaries will do well to select judges who breed that variety to judge it.

After what I call some real traveling around these United States, I am firmly convinced that Bird Bros. of Meyersdale, Pa., are the real turkey kings of the entire country.

It must run in the family. Chas. Hubbard, the Buff Orpington breeder and also the manager of Foxhurst Farm, Lime Rock, Conn., has an eleven-year-old son named after him and who is a real chip of the old block. He recently won first prize in the Connecticut boys' and girls' club, and in addition sold his birds at a profit of over two hundred dollars.

Paul Ives of Guilford, Conn., has a new Langshan to show us. Good luck to you old man. May it prove a success.

Read Poultry Farm, Watervliet, N. Y., is planning three new houses for this winter.

With a party of friends, we spent Saturday, Oct. 11th visiting the following farms: Pinchest Orchards, Harold Tompkins', Rock Ledge Farm and Homestead Campine Farm.

Honor for the most beautiful and costly home in the entire poultry world goes to H. P. McKean, Jr., owner of Willow Tree Poultry Farm, Beverly Farms, Mass.

Spent a very pleasant evening with my old friend, Chas. Wood, secretary of the Massachusetts Poultry Association. I said "friend" and mean it. Was caught in front of his house with two blowouts in my front tires and no one within forty miles who knew me. He fixed me out, that is why I say a "friend."

Records show that Arthur Bouck of Fernbrook Farm, Albany, N. Y., is a consistent winner at the leading shows, but it does not tell how good eating some of his birds are. A few Sundays ago I spent the day there, along with four dyed-in-the-wool fanciers from Haydenville, Mass. (also White Wyandotte breeders). Well, between the Brown brothers and White, Mrs. Bouck had some job on her hands, but we all left there full of happiness and chicken.

Right at this time good poultry managers are in big demand, so therefore, Mr. Owner, treat your manager human and give him credit for what he does.

Another good bred-to-lay poultry farm in Massachusetts is at Leeds, Mass., owned by M. W. Potter, one of the old school and a real breeder.

Visited the Barred Rock Farm of W. J. Wallis, Westfield, Mass., a well known breeder in New England, who has a very good plant.

If you expect to get real results from your advertising see that your copy is well written, your inquiries answered promptly and on a typewriter. If you do this you will find that poultry journal advertising is a dividend payer.

If you intend to exhibit at Boston but find it impossible to be there personally, just write to me at A. P. J. headquarters, Hotel Lenox and I will be glad to wire you of your awards.

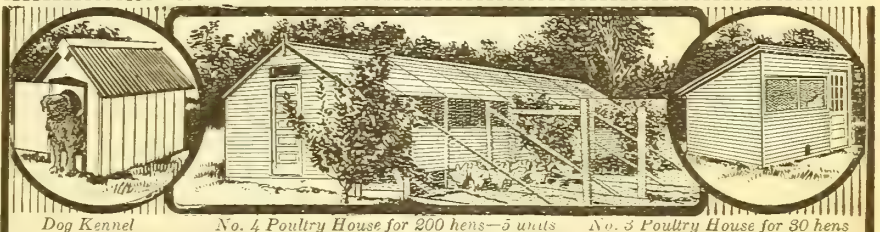
Wm. Halbach, secretary, W. H. Saart, president,—a good combination for you to vote for if you want to see the White Rock club advance.

BABY CHICKS

Prices quoted for January delivery.	Lots of 100	Lots of 50	Lots of 25
R. and S. C. R. I. Reds	\$12.50	\$6.50	\$3.50
Barred Rocks (The Real Ringlets)	12.50	6.50	3.50
White Rocks	14.00	7.25	3.75
White Wyandottes	14.00	7.25	3.75
S. C. White Leghorns	12.00	6.25	3.25
S. C. Brown Leghorns	11.00	5.75	3.00

Catalog free, or order direct from these prices. Live delivery guaranteed. Will book your order ahead for future shipment on payment of 1/4 above price. Special Offer—500 Rocks or Reds and a Standard Coal Burner Colony Brooder for \$72.50.

THORNWOOD POULTRY YARDS AND HATCHERIES, Dept. A-123, CRANDALL, INDIANA



Dog Kennel

No. 4 Poultry House for 200 hens—5 units

No. 3 Poultry House for 80 hens

HODGSON PORTABLE HOUSES

The Hodgson poultry and dog houses enable you to take care of the stock with the least amount of trouble. This dog kennel is well ventilated, sanitary and storm-proof. The poultry houses are made of red cedar, vermin-proofed, and are absolutely complete inside. All neatly painted and made in sections that can be quickly bolted together by anyone. Send for illustrated catalog.

E. F. HODGSON COMPANY Room 332, 116 Washington St., Boston, Mass.
6 East Thirty-ninth Street, New York City

Tom Barron's WINNERS

Highest breeders in America.
All birds trap-nested. All birds tested free of White Diarrhoea.

REAL LAYERS

"Lady Storr's"—287 highest record hen at late Storr's contest.

White Leghorns	Contest Wyandottes
With a world's record of 288 eggs.	283, 282, 274, 266.
Buff Plym. Rocks	S. C. R. I. Reds
280, 272, 265, 263.	243.

Catalog of Records Sent Free.

MORRIS FARM R. 4 Bridgeport, Conn.

Ward's Champion Buff Plymouth Rocks

LINE BRED FOR OVER 15 YEARS

Yearling Cocks, fit to win in any show	\$10.00	\$15.00	\$20.00	\$25.00 each
Yearling Hens	\$ 5.00	\$ 8.00	\$10.00	\$20.00 each
Cockerels	\$10.00	\$15.00	\$20.00	\$25.00 each
Pullets		\$ 8.00	\$10.00	\$15.00 each
Pens. Old or Young		\$25.00	\$35.00	\$50.00 each

R. W. WARD

THE BUFF ROCK MAN

NORMAL, ILL.

BUFF ORPINGTONS

STOCK AND EGGS from our Indianapolis, St. Louis, Louisville and Chicago winners. They combine size and correct type with true golden color. Grand quality. Fair prices. Approval and C. O. D. shipments. Mention American Poultry Journal.

WYANT BROS. - Route 7 - THORNTOWN, INDIANA

Full Blood S. C. White Leghorn Cockerels

Hatched from pens imported direct from Tom Barron's yards at Catforth, England. These birds are bred from the highest egg producing strains. WRITE TODAY for illustrated fall price list with descriptions of different matings. I have a grand lot of individuals to offer. Satisfaction guaranteed. Mention American Poultry Journal.

FUNK EGG FARM, Lyle W. Funk, Prop.

Box 38

BLOOMINGTON, ILLINOIS

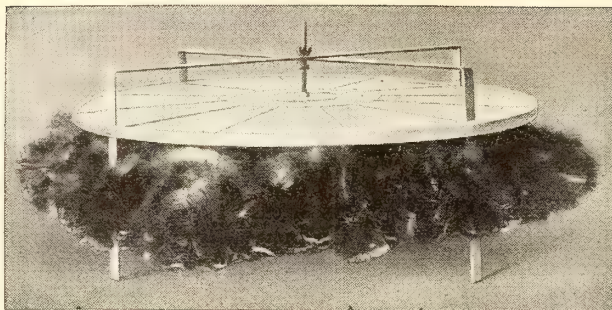
Have you one of Our New Cut Catalogs?



**This is the
Solution of
Your Brood-
ing Troubles**



Nature's way of
brooding chicks
is outdone by



Simplex Perfection Feather Brooders and Hovers

They are real artificial hens—"giant biddies" is what they have been correctly nicknamed. They are made of natural feathers to suit the requirements of the largest as well as the smallest breeders. They have been successfully used on some of the largest poultry plants in America. In 1911 the Midlothian Poultry Farms, of Tinley Park, Ill., installed our feather hovers in all their brooder houses and have had them in continuous use since that time.

Simplex Perfection Feather Brooders are manufactured exclusively by us—both heated and fireless construction. Prices to suit every purse.

Simplex Perfection Feather Hovers for brooder houses are manufactured in 3 sizes. Prices from \$3.00 to \$5.00. They are light and sanitary.

Send for our complete catalog and let us tell you more about these wonderful Chick Raisers.

SIMPLEX SUPPLY HOUSE, Pontiax Bldg., CHICAGO, ILL.



QUEEN KATHERINE III

Champion Barred Rock Male

at Boston, 1916. CHAMPIONS at Madison Square Garden and Boston in *both* varieties, is our record.

S.C. Brown Leghorns

undisputed CHAMPIONS at all shows wherever they have competed.

Our flock of chicks this year is superior to the best of former seasons and we can furnish you winners or breeders at prices that are right. Write to the *Home of the Champions*.

Grove Hill Poultry Yards
Box 555, Waltham, Mass.

Flossmoor Columbian Wyandottes

winners in strong competition at Illinois State Fair, Springfield, September, 1916.
100 fine cockerels for sale. If you want winners or good breeders, write me.

J. W. GARVEY - - - THAYER, ILL.



"Golden Rod"

BUFF ORPINGTONS

win at Illinois State Fair, 1916, 1st and 3rd pen; 1st and 2d cock; 1st hen; 2d pullet; 4th cockerel. They also hold the champion record at the National Egg Laying Contest. Oldest and best strain of Orpingtons in America. Stock for sale. Eggs for hatching. Satisfaction guaranteed.

R. M. SEWARD - - - LEWISTOWN, ILLINOIS

Barrett's Black Langshans and Barred Plymouth Rocks

At the Indiana State Fair we won 1st cockerel and 1st pullet in the Langshan class. These were from my grand champion cock at Indianapolis last January. Beautiful big cockerels for sale. Write me for prices.
BERNICE H. BARRETT - - - Lock Box 128 - - - FORTVILLE, INDIANA

SEEN AND HEARD IN THE MID-WEST

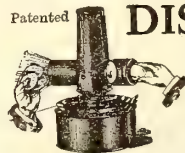
BY SHEPARD STRONG

The season for the winter shows is now at hand. I hope that everyone of you read Dr. Woods' notes regarding same in which he urged you in your own best interest to attend these shows and, if you have good birds, to be sure and exhibit. If you are going to send birds to one or more of the winter shows, be sure and use strong and suitable coops and follow in exact detail the directions for shipping and labeling outlined in the premium list of each show. In my own personal experience in the management of shows, I have found instances of birds being sent to shows in dilapidated coops—instances that were far too frequent—and in many cases by breeders of such prominence that if I should mention their names it would surprise you. I often have wondered how some of these coops hold together at all for the shipment. Other exhibits arrive at the shows in coops altogether too small for the comfort of the birds as well as their subsequent appearance when coming under the judge's eye. Still other exhibitors make their shipments to the shows with their birds all mixed together so that there is no way for the show people to tell just which birds the exhibitor wishes to be shown singly and which in pens, etc. Then there is the type of exhibitor—and his exhibit usually does not consist of more than one or two birds at the most—who bombards the secretary with a series of letters and telegrams; on the opening day of the show, he sends word wanting to be notified by wire whether his exhibit arrived safely; then after this will come one and generally two messages asking for immediate word as to his winnings, and then will come word asking the secretary to wire him whether he cannot return the exhibit a day or so before the close of the show as it worries him to have his birds away from home so long. Now, these birds may be the pets of the exhibitor's poultry yard, but they have been pests to the management all show week. On the other hand, as an example of a man who does send his birds properly to shows, I am going to cite the concrete case of L. H. Perry, Clay, N. Y. I know from personal experience that Mr. Perry's birds arrive promptly at the shows, are securely cooped, each crate being carefully labelled as to its contents and direction for return shipment. On the day the judging should be completed, the show manager receives by mail from Mr. Perry a list of his entries with request that his winnings be marked on same and returned in stamped envelope enclosed therewith on which is Mr. Perry's complete address. Then all the secretary has to do is simply mark first, second or zero, as the case may be, after each class, seal the envelope and the job is done. I have never met or seen Mr. Perry, but I know he is a thoughtful, considerate gentleman and remember, Mr. Poultry Exhibitor, that such people always get good service wherever they go.

The writer is scheduled to attend a number of the more prominent shows in the middle west and is looking forward to furnishing the readers of A. P. J. with prompt and reliable reports of same.

It is with great pleasure that we make announcement of the promotion of Mr. Hark, Sheffield Farms, Glendale, Ohio, to the office of general manager. Mr. Hark has been well known to the fanciers as superintendent of the poultry department of this famous

Patented



DISCOVERED

The world's best safety lamp and perfect egg tester. Has extra strong bull's-eye lens.

Price single tester.....\$1.00
Double tester..... 1.25

Post paid. Free circular.

C. Lingeman 3110 Elliot Ave. St. Louis, Mo.

BUFF and BLUE ORPINGTONS

Madison Square Garden winners. A grand lot of young stock for sale. Let me price you birds for fall and winter shows.

I guarantee satisfaction

HENRIETTA E. HOOKER South Hadley, Mass.

farm, in which capacity he has been largely instrumental in bringing the Partridge Wyandottes to the prominent position this variety holds today.

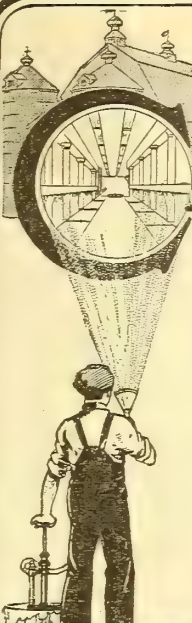
While in Indianapolis recently I called on Theo. Hewes, the able secretary of the Chicago Coliseum show. From what he indicated to me and also from what I hear all along the line, there is every indication that this season's show will be the greatest in the history of this classic institution.

I recently had a very interesting visit with Prof. Kilpatrick of the Ohio State Poultry Board, whom I ran across in Fremont, Ohio. He tells me of the active campaign that is being conducted in the encouragement and fostering of the poultry industry. This movement is worthy of the best support of the poultry journals.

The writer cannot see why secretaries of the winter shows do not work in closer union and so avoid the useless conflicting of dates. There are several bad clashes this year, most of which probably could have been avoided by a little foresight. The time is not far distant when the poultry shows—especially the larger ones—will be obliged to have a joint governing organization similar to the American Association of Fairs and Expositions, with power to assign and regulate date. I did not attend any of the show managers' departmental meetings at the Cleveland convention, but if this matter was not taken up and discussed it seems to me a decided oversight was made.

I recently called on J. O. Somers, Bedford, Ohio, and found him in the midst of harvesting the largest and finest crop of apples I have seen this season. Mr. Somers is secretary of the Cleveland show and we talked over the prospects of same in detail. Both of us are convinced that this year's show will be a record breaker in both numbers and quality.

There are several positions open at this time for competent and reliable poultry men to act as superintendents of plants. Also there is an opening for a bright young man to act as helper combined with the opportunity for learning the poultry business under the instruction of one of the best breeders and judges in the country. I will gladly put any qualified person in touch with the prospective employers who will write me regarding same at 4311 Prospect Ave., Cleveland, Ohio. *Shepard Strong.*



CARBOLA

Disinfecting
Germ-killing White Paint

Just putsome Carbola in a pail, stir in water until the mixture is thick as ordinary oil paint, and put it on-

to walls, nest boxes, dropping boards, etc., with a brush or a spraying machine. It will dry out a clear snow-white and will rid your poultry houses of mites and the germs of diseases that affect your chickens and reduce their production. The dry powder is unexcelled as a lice powder. Carbola is used by Egg Laying Competitions, Agricultural Colleges and the most carefully conducted poultry, dairy and breeding farms.


Use It Instead of Whitewash

in barns, dairies, creameries, poultry houses, cellars, outbuildings, etc. Will not blister, flake or peel off. Does not spoil by standing. Get some from your dealer today. If he has none send your order to us.

10 lbs. (10 gals.) \$1 plus postage. 20 lbs. (20 gals.) \$2 delivered free.
50 lbs. (50 gals.) \$4 delivered free.

Trial package (covers 250 sq. ft.) and booklet "The Disinfectant That Paints" for 25 cents postpaid.

Carbola Chemical Company
Department 1 7 East 42d Street, New York



Rhode Island Reds, Both Combs

At the Industrial Exposition and Fair, September 2-9, 1916, Cleveland, Ohio, I won on Single Comb Reds, 4 first and 4 second prizes. At Lorain Co. Fair, Elyria, O., won every first and second prize on both varieties. This in connection with my winnings at the last two big Cleveland Winter Shows, surely will convince you my Reds are as good as the best. If you want quality, write me.

B. M. BILLINGS, ELYRIA, OHIO

Newtown Giant INCUBATORS BROODERS

*The Newtown Giant Incubator
"HATCHES the most chicks, the
best chicks, with least labor and
at lowest cost."*

An incubator of large capacity costs considerable money. This should represent a long-time investment, one which will regularly pay big annual dividends in cash, satisfaction and peace of mind. A poor incubator is a constant source of loss, worry and annoyance. Invest your incubator money wisely. The success of your poultry operations depends largely upon this.

Buy the Newtown Giant—the choice of the most experienced and successful practical poultrymen—the incubator which is scientifically constructed and leaves nothing to chance—which eliminates labor, worry and uncertainty—which hatches more and better chicks than any other incubator ever made.

The Newtown Giant Incubator embodies every desirable feature on any other incubator of mammoth type, as well as many exclusive labor-saving, results-insuring features not found elsewhere. Included are automatic regulation of heat, ventilation and moisture in each 150 egg compartment, automatic eggs turner, automatic temperature indicator and electric alarm.

We claim that the Newtown Giant is the best incubator on earth, bar none, large or small. And we ask the opportunity to prove the truth of this assertion. Your request to "show me" puts you under no obligation. But you will be glad you wrote us.

Write today for complete incubator and brooder catalogs—FREE

NEWTOWN GIANT INCUBATOR CORP'N, 21 Warsaw St., Harrisonburg, Virginia

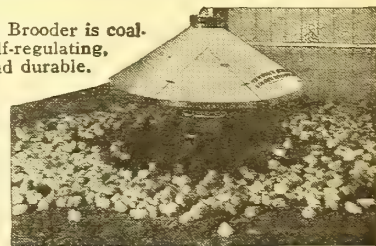
After you hatch or buy chicks, raise them. Poor brooding equipment and the inability to successfully grow chicks year after year, have probably wrecked more poultry enterprises than any other single factor.

You should have brooders which will raise good chicks and lots of them—which are not expensive to buy—which do not demand costly buildings—which are economical of labor and fuel—which will give continuously satisfactory service for many years.

The Newtown Coal-Burning Colony Brooder meets these specifications. It was the first successful brooder of the colony type offered to American poultrymen. It has been improved from year to year as a result of our experience which covers a longer period than that of other manufacturers of colony brooders. It has been imitated but never equalled. Ask the men who have tested the original and the imitations.

The Newtown Colony Brooder is coal-burning, self-feeding, self-regulating, freely ventilated, safe and durable.

It will satisfy your most exacting demands. Your dealer should be able to supply you. If not, we will. Made in four sizes for any number of chicks up to 1200. Sells at \$15, \$20, \$25 and \$32.50. Get the size you need, but be sure it's a genuine Newtown. There's no other "just as good."



*Newtown Coal-Burning Colony
Brooder "RAISES the most chicks,
the best chicks, with least labor and
at lowest cost."*

For Sale: White Plymouth Rocks from Bella Vista Farms

that won trophy for winning
greatest number of points in
any one class at

PALACE SHOW
New York City, 1915-16

I can sell you
stock just as

GOOD

Write me your wants and
where you expect to exhibit

Exhibition Stock Only

LEWES P. DOERHOEFER

Anchorage, Kentucky



**BROWN
LEGHORNS**

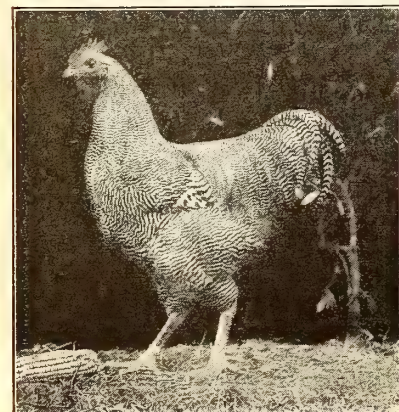
The kind the fancier
delights in. Winners
at Boston, Chicago,
Madison Square.
Show birds and
breeders for sale.
Can furnish winners;
now. Write for circular
today. Free. Eggs \$3 and \$5
per setting. **W. H. WIEBKE**
Box P-348 Ft. Wayne, Ind.

BABY CHICKS; 10 Varieties

400,000 for 1916

CLEVELAND HATCHERY

7916-18 W. Madison Ave. Cleveland, Ohio



Associations and Shows

Secretaries are Requested to Send in News Items of Interest About Their Shows for This Department

IOWA STATE POULTRY BREEDERS' ASSOCIATION

The result of the annual election of the Iowa State Poultry Breeders' Association has been announced by Election Commissioner Bittenbender as follows: President, Judge Jos. Dagle, Richland; vice presidents, W. E. Creath, Ottumwa; L. H. Heim, Dubuque; E. D. Monillaw, Cedar Rapids; secretary-treasurer, V. V. Warner, Bloomfield. The newly elected members of the Executive Committee will consist of H. E. Williamson, Dubuque; Geo. L. Marsh, Waterloo; S. A. Power, Fairfield. The Finance Committee, A. J. Smith, Cedar Rapids; J. H. Hastings, Grinnell; Miss Beatrice Mansfield, Altoona. Place of annual meeting, Dubuque, January 4 to 9. James A. Tucker, Jos. Dagle, and Harry Atkins, judges. This will make the Dubuque show the one great show of the state, as the Iowa State Poultry Association, the oldest organization in the state, will also hold its annual meeting and make its forty-second annual exhibit in combination with the Dubuque Poultry Association. Write Walter G. Hurd, secretary, for premium list.

NATIONAL MEET OF SINGLE-COMB WHITE LEGHORN CLUB

Breeders of Single-Comb White Leghorns should surely plan to send an entry to the National meet of the Single-Comb White Leghorn Club, to be held in connection with the Greater Chicago Show, January 10 to 16, 1917. This is one of the big shows of the country and the White Leghorn class at this show promises to be one of the largest and best ever cooped. Twenty-five per cent of the total entry fees on Single-Comb White Leghorns will be offered as cash specials to members of the club; this in addition to the regular cash prizes, club specials, silver cups, etc. Eight places on cocks, hens, cockerels, pullets and both young and old pens will be awarded. Two judges of national reputation will be put on White Leghorn class—one from the east and one from the west—which assures satisfactory judging to all. Make applications for membership in this club to its president, Eugene Smith, Aurora, Ill., or its secretary, F. O. Groesbeck, Hartford, Conn. Send your request for premium list of the Greater Chicago Show direct to D. E. Hale, secretary, 930 Monon Building, Chicago, Ill.

ILLINOIS STATE SHOW WILL BE A RECORD BREAKER

The twenty-third annual Illinois State Show, to be held in the Arsenal Building at Springfield, Ill., December 28 to January 3, will undoubtedly be the biggest exhibition ever held in Springfield. The Sangamon County Poultry Association, one of the liveliest organizations in the state, is out to show the exhibitors that Springfield is the real show town they say it is. The dog fanciers, cat fanciers, bantam men, pigeon men and pet stock men are all working in harmony and will no doubt draw a larger attendance than any show in the state. Each have a department of their own. Inquiries are coming in from practically every state in the Union and with eight judges all judging will be done in one day. Plenty of special premiums, cash specials for best shaped male, best shaped female, best displays in every variety; official and marked

catalogs distributed free to everybody; cash prizes larger than any show in the state, combined with first class treatment, and an absolutely square deal to all is what you will get at Springfield. Columbian Wyandotte, Ancona, Black Langshan Clubs will meet here. Why not you? Catalog will be ready soon. Write A. D. Smith, secretary, Quincy, Ill., for copy.

AMERICAN S. C. WHITE MINORCA CLUB

At a special meeting of the American S. C. White Minorca Club the following officers were elected: President, C. Augustus Raschke, Kingston, N. Y.; first vice president, W. H. Catterall, Chickasha, Okla.; second vice president, F. X. Zapf, Great Bend, N. Y.; third vice president, Mrs. I. J. Lorton, Union City, Ind.; secretary-treasurer, T. D. Brown, Muskogee, Okla.; chairman publicity committee, H. B. Shapley, Earlville, N. Y., assisted by E-President Mrs. J. G. Osborne, Fabius, N. Y., and members of the executive committee. We urgently request all breeders to join our club and help the officers to boost the White Minorcas in every way possible. From all present indications there will be a greater demand for stock chicks and eggs next season than ever before, and we have every reason to believe that with proper showing and advertising the S. C. White Minorcas will become one of the most popular breeds.

AMERICAN BUFF LEGHORN CLUB MEETING

A meeting of the American Buff Leghorn Club will be held at Detroit, Mich., Friday, Jan. 11th, 1917, at the Poultry Show room at 2:30 p. m. Further information can be had in Buff Leghorn Alley before 2:30. It is earnestly requested that all members and others interested be present with any suggestions they may have that will promote the interest in these egg laying machines and valuable market breed of poultry. Many important questions will come before this meeting. Be sure and get the new club book, 80 pages, and free to those interested, worth \$2.00 to many for the information they gain from the same. Dr. L. E. Heasley, president, Holland, Mich. Geo. S. Barnes, secretary, Battle Creek, Mich.

The Chicago Pet Stock Club held a bench show on November 3rd which was very well attended. Charles Gibson judged the rabbits and E. F. Deicke the covies, during the course of which the judges lectured on the merits and demerits of the various specimens. After the judging, raffles were held on several rabbits and covies which were donated for the purpose by members for the benefit of the club. We now have 44 members. Send all communications to Geo. C. Eckert, 2630 Winona Ave., Chicago.

The Silver Wyandotte Club of America will hold its state meet in Watertown, Wis., Dec. 5-10, 1916. They are offering \$45 in cash prizes to members of the club, 10, 20 and 30 per cent of the entry money, cash specials for pens and displays, also many merchandise specials. All Silver breeders are welcome to attend a special meeting to be held in the show room on Sunday afternoon, Dec. 10th, and the Watertown boys will entertain them to the best of their ability. For premium list write the secretary, Theo. E. Sonnemann, 512 8th St., Watertown, Wis.

SHOW BIRDS GALORE!

More than 2500 Aristocrat Barred Rocks are now growing up into superb, magnificent show birds. The Aristocrats are those wonderful birds which made such a truly

SENSATIONAL SWEEP OF VICTORIES

thruout all America last season—from Brooklyn, N. Y., to San Francisco, and from the great shows of Canada down to the Gulf—capturing **FIRST PRIZE** at such shows as Chicago, the World's Fair, Philadelphia, Norfolk, and scores and scores of other shows. This is one of the most **Victorious Campaigns** ever made by any strain in a single season. This great record gives force and power to the thought that

The Aristocrats Are Sure and Guaranteed Winners

Now—I ask you: Do you want to win this Fall or Winter? If so, sit down and write me, and we will make a deal that will safe-guard you absolutely.

W. D. HOLTERMAN, Fancier Box A **FORT WAYNE, IND.**

P. S.: This season the Aristocrats are even better than last year.

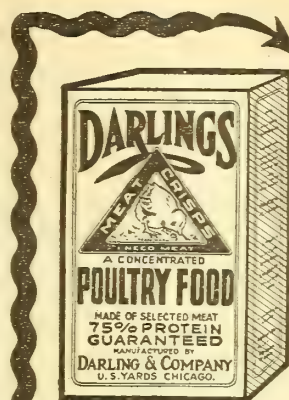
JUDGES AT GREATER CHICAGO SHOW

The following well known judges have been engaged and assigned classes for the Greater Chicago Show to be held Jan. 10-16, 1917, as follows: Newton Cosh: Barred Rock exhibition males and pens, cockerel-bred pens, pullet-bred cocks, hens, cockerels and pullets, all Blue Andalusians, all R. C. Black Minorcas. A. C. Smith: All Partridge Wyandottes, Barred Rock exhibition hens and pullets, cockerel-bred hens and pullets, pullet-bred pens. Frank L. Platt: All Sussex, Anconas, Houdans, Campines, Buckeyes. J. C. Johnston: All S. C. R. I. Reds, S. C. White Leghorn cockerels, pullets and old pens. Chas. McClave: All Leghorns except White, all Cochins. White Plymouth Rock cocks, pullets and old pens, all Columbian Rocks all ducks. Jos. Dagle: All Buff Plymouth Rocks, White Plymouth Rock cockerels, hens and young pens. H. B. Hark: All Partridge Plymouth Rocks, all White Wyandottes. Z. D. Struble: All Buff Orpingtons, Buff Wyandotte cocks, pullets and old pens. W. E. Stanfield: All Orpingtons except Buff, all Cochins Bantams except Black. J. A. Leland: All S. C. Black Minorcas, all White Minorcas, all Brahmans, all Columbian Wyandottes. W. W. Wise: All R. C. R. I. Reds, all Black Langshans, all Black Leghorns, all Black Cochins Bantams; Black Javas. Dr. H. P. Clarke: All Buttercups, all Games and Game Bantams, Cornish and Cornish bantams, Malays and Malay Bantams, Sumatras, Silkies, Sultans, Polish, Hamburgs, Yokohamas, Lakenfelders and Black Tail Jap Bantams. J. H. Lewis: All turkeys and geese. M. L. Chapman: S. C. White Leghorn cocks, hens and young pens, Buff Wyandotte cockerels, hens and young pens. This list subject to change if necessary.

A REAL NATIONAL SHOW

We hear this and that show talked of as being a national show. All shows are national as far as limiting entries are concerned, but when a show holds several nation club meets at one time it should be classed as a real national show. The Greater Chicago Show will entertain the following national club meets at its next annual show to be held Jan. 10-16, 1917: The National S. C. White Leghorn Club, The American Buff Plymouth Rock Club, the International Partridge Plymouth Rock show, the American Partridge Wyandotte club, the American Buttercup club, the American Bronze Turkey club, the National Golden Wyandotte club, also the Illinois State Barred Rock Club, the Zone Partridge Wyandotte meet for Missouri and Illinois. This means one of the largest arrays of specials, cash, cups and medals ever put up on any eight classes at any one show. The men composing the Chicago Poultry Breeders' Association are fanciers and hustlers and are putting on a great show. This show has made an enviable reputation for being a great selling show where fellowship and good spirit prevail. There will be club meetings, club banquets, fireplace talks, and last but not least, the F. L. E. A. banquet. See that your dues are paid to your club and be prepared to come, win and enjoy yourself. Premium list is now ready and will be sent for the asking by addressing D. E. Hale, 930 Monon Building, 440 S. Dearborn St., Chicago, Ill.

Frank L. Platt, Swanton, Ohio, has been added to the list of judges at Madison Square Garden. He will judge Light Brahmans, Dorkings and Sussex.



Here Is the Secret of Winter Egg Profits!

"Get the pullets started to laying before cold weather. When they go into the winter houses, make them eat all they possibly can; have dry mash and high grade meat feed always before them; the more they eat, the better, just so long as the meat feed in the ration is high in protein and is clean and digestible." The most perfect and economical form of meat feed is

DARLING'S MEAT CRISPS

This feed is made from selected meat trimmings collected daily in the Chicago markets. It is cooked the same day at 350° Fahr., thoroughly removing all grease and foreign matter. After drying it is ground into uniform particles. It is a sweet, clean, odorless concentrate of fresh meat. We guarantee it to contain 75% digestible protein. Packed in moisture proof cartons and wooden pails.

Poultry Book FREE

This book, entitled "Feeding Secrets of Famous Poultrymen", will give you more information about **Winter Egg Production**; Pushing Late Pullets; Making Eggs that Hatch; Feeding for Exhibition, etc. It tells the cause and cure of common poultry diseases, and in addition contains a lot of other valuable information. It describes Darling & Company's other poultry feeds. Write for your free copy today.

DARLING & COMPANY, DEPT. 2 CHICAGO
U. S. YARDS



What's a CAPON and Why?

64 Page 6 x 9 inch BOOK that explains everything you will ever want to know about CAPONS. 50 pictures from life that show each step in the operation. List of Capon Dealers' addresses. Tells how to prevent "Slips," where to get the best and cheapest capon tools. Capons are immense eating. Big profits realized. Get wise. This book tells how. Copyrighted new and revised 1916, 5th edition. Regular 50c copy, prepaid to your address (a short time only), for a dime in coin or stamps.

GEORGE BEUOY

R. R. No. 7

CEDAR VALE, KANS.

SEVENTH ANNUAL SHOW

of the MICHIGAN POULTRY BREEDERS ASSOCIATION, Inc.

Detroit, Mich. January 9 to 14, 1917. National White Wyandotte Club Meet. Barred Plymouth Rock Club State Meet. Write for Catalog.

F. M. CROWE, Secretary

OWOSSO, MICH

MILWAUKEE

A city with a wide-awake Merchants & Manufacturers Association that recognizes the poultry show with liberal special prizes;

A city with the best show room in America;

A city with one of the most homelike and one of the cheapest American plan hotels to be found;

All these and hundreds of other reasons why you should exhibit at the great Auditorium Show, Jan. 18-22, 1917.

A city of 480,000 population;

A city made up of many suburbs, where poultry is bred on nearly every back lot;

A city with the most liberal press in this country;

Premium List now ready and free for the asking.

REMEMBER This is the annual meeting of the American Buff Orpington Club. Write for list today.

Address of Secretary until December 25th, New Southern Hotel, Chicago. After December 25th, Republican Hotel, Milwaukee.

THEO. HEWES, Secretary

Cleveland Poultry Breeders Association Co.

The Big 5th Annual, January 8 to 13, 1917, at Central Armory

Pigeons a big feature this year. Premium List ready December 1st. Entries close December 23rd. Write

J. O. SOMERS, Secretary

BEDFORD, OHIO

DID YOU READ the editorial on page 1128 October A. P. J. Carrying out the idea of this editorial, we make the following offer to the breeders of Massachusetts and Connecticut: We have several rebuilt and second hand typewriters, fully guaranteed in every way. You can have your choice of the following makes:

**Underwood, Oliver,
L. C. Smith, Royal.**
All rebuilt machines are

All second hand machines are Remington, Blickensderfer, Smith Premier.

\$35.00

\$15.00

No notes to sign, no mortgage, just fill in the coupon below and return to us with \$5 and your typewriter will be shipped at once. Be sure to state if you want rebuilt or second-hand machine.

COUPON

New England Typewriter Exchange,
847 Main St., Hartford, Conn.

Please ship me a.....
[State if rebuilt or second hand] [Make of typewriter]
Typewriter, for which I agree to pay you

I enclose first payment of \$5 and agree to send you \$5 each month, until the full amount is paid. It is understood that the title to said typewriter shall remain in your name until I have paid the full amount of the purchase price.

Name

Address

City..... State.....

GEM Exhibition COOPS



Endorsed and used by Ohio, Ia., Wis., and other state colleges. Made of wood and canvas with pat. sliding front. Light weight, sanitary and collapsible. Used for a quarter of a century by breeders and associations. Water cups free with every coop. Coops for show associations a specialty.

Gem Mfg. Co., Box 38, Greenville, Ohio



WHITE WYANDOTTES

Choice winners for any show in the world. Breeders of the same quality. You'll be pleased if you invest with Nixon. A quarter century experience.

CHAS. NIXON, Judge and Breeder, Box 2, Washington, N. J.

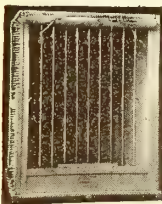
COAT YOUR ROOF with

Atlas Asphaltum Paints in colors.

Save the price of a new roof by renewing the life of your old one.

Write for prices and particulars to

THE ATLAS COMPANY, LINCOLN, N. J.



Don't buy a show coop or in fact anything in the poultry line until you get my catalog and prices.

Write Now

Warner "The Coopman"
Corner River and Race
ALLEGAN, MICHIGAN
Trap-nests, Chick Boxes, Lice Remover, Shipping Coops, etc.

FOR SALE 20 Hot Water Incubators, 500-egg capacity. Guaranteed Hatchers: good condition. \$27.50 each. Worth double. One \$35.00 Newtown Brooder stove, used 3 months \$22.50. One International Hover \$5.00.
PEERLESS HATCHERY, 4537 S. Sacramento Ave. Chicago, Ill.

Sears' Barred Plymouth Rocks

Are sure winners. Breeders for sale now.
Howard O. Sears, L Box 6, Garden Prairie, Ill

S. C. BUFF ORPINGTONS

Pens, Trios and Single Birds, both in old and young stock at rock-bottom prices for this month. Some very nice March hatched pullets and cockerels both in utility and show birds.

SUNSET POULTRY YARDS, C. E. Siegel, Prop., Olneyville, R. I.

BABY CHICKS

Now is the time to place your orders for early 1917 deliveries. Catalog and price list free.
20th CENTURY HATCHERY, Box 17, New Washington, Ohio

SOMETHING NEW

Sioux City has inaugurated a new idea for its poultry show; instead of one week it is spreading the show over a continuous period of five weeks; the first week, commencing Dec. 26, will be given to Leghorns, Hamburgs and Bantams, Campines and Minorcas; the next week following will be Orpingtons only; the next week, Rocks; the next week, Wyandottes and Rhode Islands; the last week will embrace all varieties not already provided for. Entry fee will be 50¢ per single specimen; \$2.00 per pen. The association owns its own steel wire coops, and there will be no cooping or feed charge. The show room is on the principal business street in the heart of the town and the public is to be admitted free. This is a radical departure from the old method of conducting poultry shows, and this season's experience will be useful in indicating better plans of grouping the varieties shown each week, for future shows, but in order that this method be continued through the ensuing years and be a permanent fixture, the poultry people must give us their support by showing their birds; we have 500 steel coops and room for more, so there will be no crowding; everybody's birds will be shown to the best advantage, for the room has excellent light. For further information, address C. S. Evans, president, Sioux City, Iowa.

BATAVIA, ILL., PREMIUM LISTS READY

We are in receipt of the premium list of the Batavia, Ill., Auditorium show, giving a list of the prizes at what promises to be one of the best shows in the state. The dates are Dec. 26-29, inclusive, and the entry list closes Dec. 18. You have just time to get a premium list and get your entry in. Judging from the classy premium list issued and by what we have already heard, the Batavia boys are evidently "on the job" and will have "some show." They are planning on cooping 1,000 birds and are offering several hundred dollars in "gold special" and regular premiums, as well as silver cups and trophies. Judge Hale will place the awards, assisted by another equally prominent, if necessary. Exhibitors will be urged to "place their advertising on coops as soon as birds are in." The Junior Department, the pigeon, bantam and pet stock departments, with a "winter fair" in addition will be special features. The Batavia show is "up to the minute" and will have many special features of an attractive, practical and educational nature to draw a large attendance. They claim "the best cooped show in the state." Write for premium list to Charles A. Pierce, secretary-treasurer, Batavia, Ill.

The annual poultry show in Denver next January will be free to the public and an advertising campaign now is being planned for making it an exposition of such proportions as to attract poultry fanciers from all sections of the Rocky mountain states. This program has been agreed to by the directors of the Colorado Poultry Fanciers' Association after consultations with city officials and officers of the Tramway company. The agreement has been reached with the mayor that the Auditorium will be furnished rental free, the association to pay the actual cost of lighting and heating the building. The Tramway company will provide advertising space on its cars free of charge and will assist in other ways in advertising the event. Other business concerns are expected to assist in making the 1917 poultry show an exhibition big enough to attract crowds to Denver in January.

The Wisconsin Black Orpington Club will hold their next club meet in connection with the Sheboygan show Jan. 3-7, 1917, and are offering cash prizes to the amount of \$75 to club members only. This will be in addition to the \$800 that the association is offering. This extra feature will make the Sheboygan show one of the best in the state. For further particulars address Geo. L. Spratt, secretary, Sheboygan Wis.

The national meeting of the American Buff Leghorn Club will be held in connection with the show of the Michigan Poultry Breeders' Association at Detroit, Mich., Jan. 9-14, 1917. The National White Wyandotte Club meet and Barred Plymouth Rock Club state meet will also be held in connection with this show. For full particulars write F. M. Crowe, secretary, Owosso, Mich.

Single Comb Reds

50 first class exhibition pullets for sale. My birds won third young pen at Illinois State Fair, Springfield, September, 1916.

JOHN STIARWALT

833 E. Wood Street

Decatur, Illinois

Exhibitors at Boston
will find headquarters
established at

Hotel Lenox

Boylston and
Exeter Streets

Three Minutes Walk from Mechanics Hall, Back Bay and Huntington Avenue Railroad Stations.

Special arrangements have been made for the fanciers, so write or wire for reservations.

Rates per Day

Single with running water, \$2.00
Single with bath 2.50
Double with running water, 3.00
Double with bath 4.00

Every Room an Outside One.

HOTEL LENOX

L. C. Prior, Managing Director

Noted for the service it gives
and the way it is given.

BOSTON, MASSACHUSETTS

As Good As the Best

as proven by their remarkable win at Boston Show, 1916, wherein with extra strong competition for which Boston is noted.

Hayward's White Plymouth Rocks
Won 1-2-3-4 pullet, 1-4-6 ckl, 2-4 pen, 5-6 hen, champion male and best display. High quality stock furnished at prices that are right and complete satisfaction guaranteed.

W. F. HAYWARD
Westboro,
Mass.

Palmer's Barred Rocks

Do you want to win? Then write us fully what you want and we can furnish it, bred direct from America's foremost strain in producing Chicago winners. If we can breed birds to win at such a show we can produce winners for most any other show. Catalog free upon request. We have hundreds of birds for sale and can furnish you any number of them, guaranteed to please. Write today to
D. F. PALMER & SON Box 35 YORKVILLE, ILLINOIS

Winners

Chicago and St. Louis Coliseum

Cock and 3 Hens, pair imported. Three of these birds won at the above shows, one unexhibited. Fine foundation stock. Cheap as we are closing out,
DAWDY & DAWDY, Box M, GREENVILLE, ILL.

Large Great Layers, Pure White,
LAYBILT "S. C. W." LEGHORNS
EVERFRESH EGG FARM Box A IONIA, MICH.

The Cleveland show, Jan. 8-13, promises to outdo all others. Many new added attractions will be found when this show opens. Pigeons will be a big feature, and the National Pygmy Pouter Club will hold their national meet with us, and probably the Pouter Club also. Chas. Wagner of Toronto will handle the pigeons. The United Ancona Club will hold their national meet with Frank L. Platt to handle this class. With J. C. Johnston to handle the Barred Rocks this will be a big feature. H. V. Tormohlen will handle the Brown Leghorns. Undoubtedly the American Cornish Club will hold the Ohio State meet with us, and Mr. Cecil Manners, Mountsville, Va., will judge them. The Ohio State University will place one of the most up-to-date exhibits with us, and will also conduct a poultry institute all week and both will be in charge of Mr. Milligan C. Killpatrick. This will be one of the leading features of the show. As Central Armory has been secured, and all birds will be single decked, this show will be one of the best ever held in the city of Cleveland. J. O. Somers, secretary, Bedford, Ohio.

The Pittsburgh show will be held the usual third week in January from the fifteenth to the twentieth, the week following Boston. The Poultry Exhibition of Pittsburgh has been reorganized into a large breeders' society and the indications are that the year's show will prove the banner event of five preceding shows. The success of which has placed Pittsburgh among the leading national shows. We are going back to our old location where the attendance averaged over six thousand paid admissions a day. The National White Orpington Club will hold its meet here and we anticipate a large entry of this variety. The judges so far selected are A. Fred Kummer, W. C. Pierce, Len Rawnsley, Fred H. Cook, J. N. Hazlett, J. H. Lewis. For premium list address, The Poultry Exhibition of Pittsburgh, 58 Grace Ave., Pittsburgh, Pa.

The sixth annual show of the Sheboygan Poultry and Pet Stock Association will be held January 3 to 7, 1917, and entries will close December 31. This year the association will hang up the largest amount of cash prizes in its history—\$800—and already inquiries are being received for the premium list. If you want to exhibit at this show, send today for a premium list, which will be mailed immediately by George L. Spratt, Show Secretary, Sheboygan, Wis. George M. Wells, of Oshkosh, will judge the poultry department, and K. J. Muir, Chicago, will judge the pigeon department. This year a combination will be worked, the first five awards placed by comparison, balance by score card. In place of cups this year the association is hanging up large cash prizes for sweepstakes, displays and specials.

Less than three years ago the Delaware County Poultry Association was organized, and two fine poultry shows have been held. Plans are now under way for the third, which will be held Jan. 17-21, in Media Armory. The show will be a four-day affair this year, this being an increase of a day over the other years, and the lists have been opened to include pet stock, while in the past entries were limited to poultry. Premium lists may be obtained by addressing P. G. Platt of Wallingford, who is secretary. W. G. Bengal of Media has been appointed show superintendent. The judges have not yet been named.

Don't let the talk about a railroad strike prevent you from entering your birds at the Kansas City Poultry Show, January 1, 1917. Birds are shipped by express. Express cars and mail cars go by the same train. The government will not allow its mails delayed. Make your entries early, and if a railroad strike prevents you shipping your exhibit, your entry fee will be returned to you in full. E. L. Noyes, secretary of Kansas City Poultry Show.

The Kansas State Poultry Federation Show will be held at the State Manual Training Normal, Pittsburg, Kan., Dec. 18-22, 1916. The cash and special premiums are very liberal. T. E. Quisenberry, G. D. McClaskey and E. C. Branch, judges. Send at once for premium list to D. J. Mackey, secretary, Pittsburg, Kan.

The Mrettoewee Valley Poultry, Pigeon and Pet Stock Association will hold its sixth annual show at Granville, N. Y., Jan. 22-27, 1917. Jaquin and Van Alstyne, judges. Send for premium list to D. B. Braymer, secretary, Granville, N. Y.

The Greene County Poultry and Pet Stock Association will hold its annual show the first week in January, 1917, at Springfield, Mo. This association has purchased coops and will have uniform cooping. C. A. Emery will place the awards. For premium list and particulars address the secretary, C. H. Fawcett, Springfield, Mo.

Madison Square Garden

Our 28th Annual Exhibition Will Take Place

December 28, 1916 to Jan'y 3, 1917

Entries for "America's Leading Show" Close December 12, 1916. In applying for Premium List state whether you intend to exhibit Poultry or Pigeons or both. There are special blanks for pigeons. For particulars address

Chas. D. Cleveland, Sec'y Madison Square Garden New York City

AMERICA'S GREATEST QUALITY SHOW.
POULTRY, PIGEONS, CATS, PET STOCK.

THE BOSTON SHOW
MECHANICS BUILDING
Jan. 9-13, 1917
Entries close Dec. 26, '16
For Premium List and Entry Blanks
Address W. B. ATHERTON, SECRETARY,
36 Bromfield Street, Boston, Mass.

Greater Chicago Show
January 10 to 16 Union Stock Yards, Chicago Finest Show Room in America—Judges of National Reputation—Seven Specialty Club Meets—A Chicago Win is a Real Win—Show Here and Enjoy Real Chicago Hospitality.
Entries: Singles, \$1.50; Pens, \$3.00—Premium List Now Ready—Request Yours Today
D. E. Hale, Secretary, 900 Monon Building, 440 S. Dearborn St., Chicago, Illinois

OIL CITY POULTRY ASSOCIATION, Oil City, Penna.

3rd Annual Show—Jan. 24-27, 1917
CHAS. McCLAVE, Judge SCORE CARD SHOW CHAS. R. BAKER, Sec'y.

LIVINGSTON COUNTY POULTRY ASS'N

Pontiac, Illinois December 18-22, 1916
Liberal Cash and Special prizes. Judging by comparison by leading judges. Catalog ready—send for one
O. A. TUTTLE, Secretary PONTIAC, ILLINOIS

IOWA STATE POULTRY SHOW DUBUQUE POULTRY ASSOCIATION, Inc.

January 4-9, 1917
Judges: Tucker, Dagle, Atkins Walter F. Hurd, Secretary

BATAVIA ILL. SHOW—Dec. 26-27-28-29, 1916

Premium list ready November 25th Poultry, Pigeons, Pet Stock. Winter Fair. Valuable Cash and other Prizes. Silver Cups. Score card show. Entries close Dec. 18th. Write today for Premium list.
D. E. HALE, Judge C. A. PIERCE, Secretary, BATAVIA, ILL.

MUSKEGON and EASTERN SHORE POULTRY ASSOCIATION

Seventh Annual Exhibition - Muskegon, Michigan, Jan. 23-24-25-26, 1917
Silver Cups, Gold Sweepstake Specials, Cash Premiums, and Special premiums galore. Premium list ready Nov. 15th; Entries close January 20. Wm. M. Wise, judge; H. S. Noble, Sec., 15 Barney Ave. Muskegon Hts.

IONIA COUNTY POULTRY and PET STOCK ASSOCIATION SHOW

January 30-31 and February 1-2, 1917. A Live Show in a Live Town
Liberal Cash and Merchandise Premiums. Wm. M. WISE, Judge. Write for Premium List to
VERA L. WILLIAMS' Secretary IONIA, MICHIGAN

Martin's Liquid Glue

The most satisfactory adhesive for general use. Always ready for use—requires no heating. Constantly needed on farm and poultry plant and in the home. Keep it on hand. It will save dollars for you each season.

Refuse substitutes. Identify the original by this trade-mark.



This glue is free from acid and other injurious substances. It quickly and permanently cements wood, china, glass, marble, and everything mendable. A child can use it and get satisfactory results. No need to fuss with glue-pots—no delay—no danger from fire.

Martin's Liquid Glue comes in handy packages, holding from one ounce up. Ask your dealer for it by name—MARTIN'S. If he will not supply you, write the manufacturers.

International Glue Co.
12 T-Wharf, Boston, Mass.

S. and R. C. Reds

Choice exhibition and breeding stock of both combs for sale. Let me quote you prices on what you want. I can please you.

W. A. McConnell - Richmond, Ill.

Silver Penciled Wyandottes

Some choice stock for sale, bred from Chicago prize winners. Write for prices and particulars.

AUG. BLOESE, 5733 Lawrence Ave., CHICAGO, ILL.

McCONNELL'S

S.C.B. MINORCAS

America's most famous trap-nested egg-producing and exhibition strain. Winners at America's Largest Shows. Breeding and exhibition stock for sale. New sales list out June 15th.

J. V. McCONNELL

Box A Garden Grove, Cal. U. S. A.

Barred Plym. Rocks

Choice exhibition and breeding stock for sale. Satisfaction guaranteed.

CARTER'S POULTRY FARM
JONESDALE, WISCONSIN

MILWAUKEE ANNOUNCES JUDGES.

This new national show has made an enviable reputation for itself and bids fair to be one of the best shows in the United States. This year the American Buff Orpington Club is holding its annual meeting at Milwaukee, and a fine list of specials offered on all breeds and varieties should call out an immense entry. The Convention Division of the Merchants and Manufacturers' Association of Milwaukee, appreciating the value of this exhibition, are offering a \$25.00 cup for best exhibit of Barred Rocks. Breeders who are interested will please write the secretary for lists at once. Address of secretary until December 25th, New Southern Hotel, 13th St. and Michigan Blvd., Chicago; after December 25th, Republican Hotel, Milwaukee, Wis. Date of show January 18th to 22nd; entries close January 8th.—Theo. Hewes, Secretary.

List of judges and classification.—George E. Greenwood, Lake Mills, Wis.—All Orpingtons. James A. Tucker, Royal Oak, Mich.—All Reds; White Plymouth Rocks; all Cornish and Sussex. W. C. Pierce, Hope, Ind.—All Leghorns; Anconas, Barred Rocks; all Bantams. George Wells, Oshkosh, Wis.—White, Silver and Golden Wyandottes; Houdans, Buckeyes, Buttercups. William Halbach, Waterford, Wis.—Buff Rocks, Buff Wyandottes; all Langshans; all Minorcas; Blue Andalusians; all Standard Games. James Greenwald, Cedarburg, Wis.—All Brahmas; all Cochins; all turkeys; all water fowls; Rhode Island Whites. Any variety not listed above will be assigned to the judges first thru their classes.

WHITE ORPINGTON CLUB ANNUAL MEETING.

The annual meeting of the American White Orpington Club will be held at Pittsburgh, beginning January 17th, and the liberal cash prizes to be offered by the management of the Pittsburgh Show, as well as the cups and ribbons which will be offered by the White Orpington Club, should bring out the largest classes of White Orpingtons ever shown in America. We trust that a large per cent of the members of the club will make entries at this show and thus help to make the classes as large as possible. The club is now pushing an active campaign for new members, and in case five hundred new members can be secured, it is planned to issue a new breed book on the White Orpingtons. This book will contain cuts of the recent first prize winners of the largest shows and much valuable information as to breeding conditions and judging White Orpingtons. This would be a big help to all breeders of this most popular breed and would be well worth the annual membership in the club.—William A. Stoltz, Sec'y, 416 State Life Bldg., Indianapolis, Ind.

NOTICE.

Attention, Buff Wyandotte breeders. We have arrived at a decision regarding our Illinois State Show of the American Buff Wyandotte Club and will hold it in connection with the Chicago Coliseum Show, December 13-18. We extend an invitation to all Buff breeders. We hope to meet you there, and do not neglect to bring your Buffs; it will make them and their owners feel proud of their existence to come. And the State Branch will also hold their annual meeting during this show. We want as many members present as possible.—Mrs. J. H. Postlethwait, Sec'y-Treas., Bloomington, Ills.

The Golden Wyandotte Club will hold the next club show and meeting in connection with the Greater Chicago Show, January 10 to 16, 1917. Twenty-five per cent of the total entry fee on Golden Wyandottes, providing there are 100 or more entered, will be given as cash specials to members of the club; this in addition to regular cash prizes and club specials. If you are not a member of the National Golden Wyandotte Club mail \$1.00 to President A. W. Lang, Dayton, Ohio, or J. S. Pennington, Plainfield, Ill. Be sure to write Secretary D. E. Hale, 930 Monon Building, Chicago, Ill., for a premium list of the Greater Chicago Show.

The Cuyahoga Falls Poultry Association will hold its annual show Dec. 20 to 23. The exhibit of the Ohio State University will be held in connection and this together with the fact that admission will be free, insures a large attendance. The show will be on the comparison basis and Judge Ricketts of Coshocton, O., will place the awards. W. F. Schultz, secretary, Cuyahoga Falls, Ohio.

WHITE LEGHORN EGGS

From pens headed by Chicago and St. Louis winners. Place your order today. Free catalog.

G. J. Gerber, Box 188, Dalton, Ohio

FREE Trial Offer on O-K Chicken Waterers

SANITARY — NON-FREEZABLE

The O-K increases egg yield. Prevents diseases and frozen wattles. Keeps water warm and sanitary in 40 degrees below zero weather and cool and sanitary on the hottest days. Lasts a lifetime. Will pay for itself in a short time. A real money-saver and time-saver for every chicken raiser. Inexpensive to operate. Easy to clean. Guaranteed. Made in seven sizes. Low in price.



We also manufacture a full line of guaranteed coops and feeders.

Write for full particulars and free trial offer.

PHILLIP BERNARD CO.,

2501 Floyd Ave., Sioux City, Iowa.

Idealize YOUR Flock. Wellcome's Famous

"Ideal" TRAP NEST

Shows which hen laid the egg. Highest efficiency, least attention, lowest net cost. Write NOW for prices and proof.

F. O. WELLCOME, Box J, YARMOUTH, ME.

Black Langshan Winners

Nearly a clean sweep at Wisconsin State Fair, Sept., 1916. Grand young stock for sale. Write today.

GEO. COOKE Route 1 RACINE, WIS.

R. C. W. LEGHORNS

Winners at Nat'l Shows Chicago Coliseum, Milwaukee, Minneapolis, Duluth and many others. At Milwaukee 5 1sts; 3 2ds; 3 3rds. in competition with World's Fair winners. Eggs for hatching and day-old chicks.

MRS. J. WOLF Box 40 MERRIFIELD, N. D.

S. C. W. Orpingtons

Chicago winners. Some extra good exhibition and breeding stock to spare. Write me your wants.

W. E. READ

Phone 1018M. 919 N. 7th Ave. MAYWOOD, ILL.

White Rocks

Exhibition and breeding stock for sale. Write me your wants. I guarantee satisfaction.

MRS. L. R. BUELL LAKE GENEVA, WIS.



The "Best Yet" Aluminum Leg Band. Cannot come off. 5 sizes, pigeon to turkey. State bred. 12, 15c; 25, 20c; 50, 35c; 100, 60c. No stamps. Also colored leg bands and seamless pigeon bands. Circular free. Altracann Barker Works, Dept. J, Beaver Falls, Pa.

Grant's White Rocks

Stock For Sale.

JOHN GRANT RICHMOND, ILL.

Fogg's Single Comb White Leghorns

Bred to lay. Get our special prices on breeders and cockerels.

N. V. FOGG Box R M. STERLING, KY.

Rocks, Orpington, Reds, Leghorns, White Wyandottes

Write us for prices on stock, either to show or breed. QUINCY POULTRY FARMS A-2700 Maine St., QUINCY, ILL.

WINNINGS of A. P. J. ADVERTISERS

Under this heading will be given each month, during the show season, the winnings made by our advertisers, at the various shows, as reported by them.

The 1733 Ranch, R. R. 6, Box 2, Kearney, Neb., reports the following winning: Nebraska State Fair, 1916—Buff Orpingtons, 1-2-3-4 cock, 2-4 hen, 1-2-3-4 pen fowls; 2 ckl, 4 plt. S. C. Rhode Island Reds, 2 cock, 1-2-3 ckl, 1-2 hen, 1-2 pen fowls, 1-3 pen chicks. R. C. Rhode Island Reds, 1-2-3-4 hen, 2 pen fowls. Mottled Anconas, 3-4 hen. White Wyandottes, 1-2-3 plt, 3-4 hen, 4 cock, 1-2-4 ckl, 1-2 pen fowls, 1-2 pen chicks. White Plymouth Rocks, 1-3 young pen, 1 hen. Black Orpingtons, 1 hen, 1 cock. White Orpingtons, 3-4 cock, 1-3 hen, 1-3 ckl, 2-4 plt, 1 pen fowls, 2-3 pen chicks. S. C. White Leghorns, 1-2 hen, 2 plt, 1 pen fowls, 2-3 pen chicks. Bantams—Buff Cochins, 1 old pair. Rose Comb Black, 1 old pair. Black Cochins, 2 old pair. White B. T. Jap, 2-3 old pair. White Cochins, 1-2 old pair. Golden Seabright, 1 first, 3 seconds. Ducks—Indian Runner Ducks, 2-4 old drake, 3-4 old duck, 2-3-4 yng. drake, 2-3 young duck. Pekin Ducks—4 old drake, 4 old duck, 2-3 young drake, 2-4 young duck. Mallards, 1 old drake, 1 old duck, 1 young drake, 1 young duck. Geese—Canada, 1-2 old gander, 1-2 old goose; Toulouse Geese, 1-2 old gander, 1-2 old goose. African Geese, 2-3-4 old gander, 2-3-4 old goose. Embden Geese, 1-3 old gander, 4 old goose. Turkeys—Bronze, 1-2 cock, 1-2 hen. White Holland, 1-2 cock, 1-2 hen. Iowa State Fair, 1916: White Plymouth Rocks, 1-2 pen chicks, 2 ckl, 2 hen. Barred Plymouth Rocks, 2 pullet-bred pen fowls. White Wyandottes, 2-3 pen fowls, 3 pen chicks. Black Orpingtons, 3 cock, 2 hen. Buff Orpingtons, 1-2 cock, 2-3 hen, 1-2 plt, 2-3 pen fowls. White Orpingtons, 1-2-3 cock, 1-2 cockerel, 1 plt, 2-3 hen, 1-3 pen fowls, 1 pen chicks. S. C. Rhode Island Reds, 1 plt, 2 hen, 1 pen fowls, 1-3 pen chicks, R. C. Rhode Island Reds, 1-2 hen, 2 pen fowls, 2 cock, S. C. White Leghorns, 1-2 ckl, 2 flock in Mediterranean class, 3 pen chicks. Champion Silver Trophy, for best female in English class. Geese—Canada, 1-3 old gander, 1-3 old goose. Brown African, 2-3 old goose, 2-3 old gander. Toulouse, 2 old gander. Ducks: White Pekins, 2 young drake, 1 young duck. Fawn and White Indian Runners, 1 young drake, 3 young duck. Mallards, 1 young drake, 1 young duck, 1 old drake, 1 old duck. Turkeys Mammoth Bronze, 1-2 cock, 1-2 hen. White Holland, 1-2 cock, 1-2 hen. Bantams: Golden Seabright, Rose Comb Blacks, White Japanese Buff and White Cochins, won 7 firsts and 6 seconds. At Wyoming State Fair, September, 1916: R. C. R. I. White, 1-2-3 cock, 1-2-3 hen, 1-3 ckl, 1-2-3 plt, 1 pen. S. C. R. I. White, 1-3 cock, 1-2-3 hen, 1-2 ckl, 1-3 plt, 1-2 pen. Barred Plymouth Rocks, 2 cock, 1-2 hen, 1 trio, 1 pen. R. C. R. I. Reds, 1-2-3 cock, 1-2-3 hens, 1-2-3 ckl, 1-2-3 plt, 1-2-3 trio, 1-2-3 pen. White Plymouth Rocks, 2 cock, 1-2 hen, 1-3 ckl, 1 plt, 2-3 trio, 1-2-3 pen. Black Orpingtons, 2 hen. Wyandotte, 1-2-3 cock, 1-2-3 hen, 2-3 ckl, 1-2-3 plt, 1 trio, 1-2 pen. S. C. R. I. Reds, 1-2-3 cock, 1-2-3 hen, 1-3 ckl, 1-2-3 plt, 1-2-3 trio, 1-2-3 pen. S. C. White Leghorns, 1-3 cock, 1-2 hen, 1-3 ckl, 1-3 plt, 1-2 trio, 1-3 pen. Buff Orpingtons, 1-2-3 cock, 1-2 hen, 3 plt, 1-3 trio, 1-3 pen. White Orpingtons, every first, second and third in strong class. Golden Seabright, Buff, White and Black Cochins Bantams, Black Tailed White Jap Bantams, Plain White Jap Bantams and Rose Comb Black Bantams, 12 first and 9 seconds. White Holland Turkeys, 1-3 tom, 2-3 hen, 1 trio. Bronze Turkeys, 1-2 tom, 1-2-3 hen, 1 trio. White Pekin Ducks, 1-2 cock, 2 hen, 1 ckl, 2-3 plt. Fawn and White Indian Runner Ducks, every first and third. Brown African Geese, 1-3 ckl, 1-3 plt. Brown China Geese, 1 ckl, 2 plt. White Embden Geese, 1 ck, 2 hen, 2-3 ckl, 1-3 plt. Toulouse Geese, 1-3 gander, 1-2 goose. Wild Mallard Ducks, 1-3 drake, 1-2 duck. Salt Lake City, Utah State Fair—Black Orpingtons, 1 hen. Buff Orpingtons, 1-2 cock, 1-3 hen, 1-2-3 ckl, 1-2-3 plt, 1-2 pen fowls, 1-2-3 pen chicks. White Orpingtons, every first, every second, every third but hen and every fourth and fifth in strong class. Barred



CHAMPION LEG BAND
Aluminum, numbered to suit, with large raised figures. Postpaid 100-50c, 50-35c, 25-20c, 15-10c. Initials extra, 10c per letter per 100, 150 or less 5c. More than one initial with cut figures. Circular free giving price on Small Chick, Superior, Riveted and Pigeon Bands. Sample for stamp.
T. CADWALLADER, Box 1652, SALEM, OHIO

23rd Annual Illinois State Show

THE SHOW FOR YOU

State Arsenal, Springfield, Illinois December 28, 1916 to January 3, 1917

Empire cooping. Official and marked catalogs free. Gold specials for best display and cash specials for best shape and color, male and female, in every variety. Plenty of publicity and a square deal, whether you show one bird or a hundred. Write for catalog to A. D. Smith, Sec'y, Quincy, Ill. The Ancona, Columbian Wyandotte and Black Langshan Clubs will meet here.

Indianapolis Breeders of Poultry and Pet Stock Association

Will hold their second annual show December 4-9, 1916 at Indianapolis. Competition open to the world; premium list ready November 1, 1916.

G. C. OTT, Secretary 1106 Linden St., Indianapolis

TERRE HAUTE, IND., DEC. 6, 7, 8, 9 and 10, 1916

Entries close December 2, 1916. Comparison show. Cash premiums. Premium list ready November 10, 1916. A feature will be a big sales room in connection. Good stock sells quickly at this show. We employ such judges as Tucker, Hale, Hewes, etc. For any information write HARRY FORBES, Sec'y., 2601 N. 11th St.

Wilkes-Barre Poultry and Agricultural Ass'n, Inc.

will hold its annual Poultry and Agricultural Show, December 4 to 9, 1916. Poultry Judges, John Kriner, J. H. Minshall, H. A. Shetler. Names and addresses of exhibitors placed on every coop.

F. N. ROLL, Secretary 550 Carey Avenue, WILKES-BARRE, PA.

Western Illinois Fanciers Ass'n

ture including illustrated lectures on poultry and grain. Send for premium list to

E. A. STOUVENEL, Secretary SAVANNA, ILLINOIS

PROVISO POULTRY FANCIERS ASS'N

2nd Annual Poultry, Pigeon and Pet Stock Show, Forest Park, Ill., Dec. 21-26. Comparison judging. Uniform cooping. Judges, D. E. Hale, R. H. Waterman, R. C. JAMESON, Sec., 1019 N. 5th Av., Maywood, Ill.

Wymore Poultry Association

Third Annual Show, Jan. 8-11, 1917, at Wymore, Neb., Guy E. Schreff, Judge, J. Martz, Sec. Tres. Wymore

Lawrence County Poultry Ass'n

Show held Dec. 28-29, 1916, at Bridgeport, Ill. E. G. TEANEY, Judge. Write for full particulars to T. G. HILL, Sec., Bridgeport, Illinois

SOUTHWESTERN MICHIGAN POULTRY ASSOCIATION, Inc.

B. L. SHUTTS, Sec., Kalamazoo, Mich., Lock Box 640. Will hold its 23rd Annual Show at Kalamazoo, Mich., Jan. 1st-6th, 1917. In the State Armory, the finest show room in the State. Judges: POULTRY—J. C. Johnston, Springfield, Ill.; CATS—Mrs. G. Taylor, Rochester, N.Y.; RABBITS—C. V. Lemon, Owosso, Mich.

BLAIRSVILLE POULTRY ASS'N

Annual Show Dec. 18-22, 1916, at Blairsville, Pa. C. S. SMITH and J. E. WEAVER, Judges. Send for premium list to G. M. WILKINSON, Sec., Blairsville, Pa.

The Greene County Poultry & Pet Stock Association

Show at Springfield, Mo., first week in January, 1917. C. A. Emery, Judge. For particulars write the secretary, C. H. FAWCETT, Springfield, Mo.

Colorado Poultry Fanciers' Association

11th Annual Championship and State A. P. A. Show, Denver Auditorium. Free to the public. Liberal cash and cup awards. January 1 to 6, 1917. Judges, Johnston & Chase. Awards by score card. Catalog on request. GEORGE M. LITTLER, Sec'y., 4192 Ames St., DENVER, COLORADO

THE ONEONTA P & P ASSOCIATION

will hold its yearly show Dec. 18 to 22, 1916, at Oneonta, N. Y. A \$35.00 gold cup to be competed for. Cash prizes and specials galore. We are live birds—no dead ones. For premium list and instructions, address FRANK HANES, Sec'y ONEONTA, NEW YORK

MECKLENBURG POULTRY and PET STOCK CLUB

CHARLOTTE, N. C., DEC. 6-9, 1916. Invites you to send your birds and come yourself and meet a bunch of jolly good fellows. HOWARD C. HULL, Sec., R. 10, PAW CREEK, N. C.

SHELburne FALLS POULTRY ASS'N

Holds its First Annual Show at Shelburne Falls, Mass., Jan. 3-4-5-1917. Judge, C. H. Saylor. This will be a score card Show. For full particulars write—GEO. W. McKNIGHT, Sec., Shelburne Falls, Mass.

The Chippewa Falls Poultry Association

4th Annual Show, Jan. 22-27, 1917, at Chippewa Falls, Wis. Some great prizes are offered. E. G. Roberts, judge. Send for premium list to J. R. COSTERISAN, Sec., Chippewa Falls, Wis.

Mrettowee Valley Poultry, Pigeon & Pet Stock Ass'n

will hold its 6th annual show at Granville, N. Y., Jan. 22-27, 1917. Jaquins and Van Alstyne judges. Send for premium list to the secretary, D. B. Brayner, Granville, N. Y.

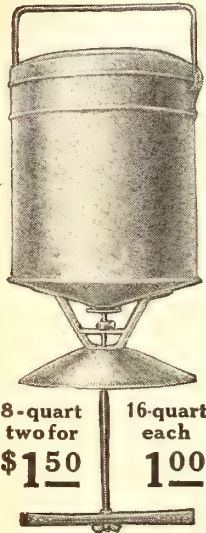
Sheboygan Poultry Show

January 3, 4, 5, 6, 7, 1917. Entries close Dec. 31. \$800.00 in cash Prizes. Send to George L. Spratt, Sec'y Sheboygan, Wis. for Premium list now ready.

WESTERN GRAND CHAMPIONSHIP FUTURITY STAKES

held at the Oklahoma State Show at Okmulgee, Okla., January 1 to 6, 1917. Such judges as Quisenberry, Tormohlen and Woods. Write for particulars of the largest stakes in the Southwest. W. C. ROLLINS, Secretary.


Here Are Some Big Bargains



This is the *Faultless Automatic Feeder*

All you have to do is to fill the can of this feeder with wheat, corn, oats or any other kind of feed, either mixed or separate. When the chickens are hungry they peck at the cross bar; this causes some feed to drop to the ground where the chickens can pick it up. No feed spoils or is eaten by rats or sparrows. **You can save enough feed in one month to pay for these feeders.** Besides the saving of feed, you save work.

Here Are Our Low Prices

 This feeder holds $\frac{1}{2}$ bushel of feed. It is made of heavy rust-proof material. It sells regularly at \$1.50—we sell it for **\$1.00** at factory in Chicago, Illinois. It weighs six pounds packed for shipping. Order by No. 153.

And What is More, we will sell you two 8-quart feeders' same style as above, both for \$1.50 and ship promptly from warehouse in Chicago, Illinois. These two feeders weigh nine pounds and will not be sold singly. Order by No. 152.

Here is the Feeder for Your Low Coop Or for Your Baby Chicks

It holds five quarts, will feed any kind of feed, either mixed or separate. It is built on the principle of the large *Faultless Feeder* and is furnished complete with bracket, which can be attached to the wall or side of a coop at proper height. This feeder is beautifully enameled (dark brown) and with ordinary care it will last forever. It is guaranteed to feed your stock perfectly from the time the chicks are able to eat until ready for the axe. We sell this feeder for 75c, f. o. b. factory in Chicago. It weighs $3\frac{1}{2}$ pounds when packed. Get one today and feed your chickens right. Order by No. 151.



We carry a full line of poultry appliances and remedies. We also manufacture the well known Simplex Genuine Feather Brooders and Hovers—both heated and fireless. Send for our CATALOG; it will interest you.

SIMPLEX SUPPLY HOUSE, Pontiax Bldg., CHICAGO, ILL.

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Where Does the Money Go? Where Did It Come From?

Those are the big questions. Be able to answer them by keeping accurate records in our new, simple,

Poultry Account Book

This book contains space to keep a detailed daily record for one year of Eggs Laid, Value of Stock Sold, Eggs Sold, Eggs and Stock Used for Table, Expenses for Labor, Feed and Miscellaneous. With the aid of this book you can tell where your leaks are, where the profits come from, and it will serve as a guide to making your business more profitable. Printed on good quality writing paper suitable for ink. **Price 25 cents.**

American Poultry Journal Pub. Co., 542 S. Dearborn St., Chicago

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"ARISTOCRAT" SILVER WYANDOTTES

Better this season than ever before. Choice Exhibition Birds, Selected Breeders and Utility Stock. Write me your wants.
FRANK FAHA, JR. Box 730, DYERSVILLE, IOWA

Rocks, 2 hen, 1 old pen. White Rocks, 2 hen, 1 ckl, 1-2 plt, 1 pen fowls. S. C. W. Leghorns, 1-3 cock, 1-2 hen, 2-3 ckl, 1-2 plt, 1-3 pen fowls, 1-2 pen chicks. S. C. Reds, 1-4-5 cock, 1-2-5 ckl, 1-2-3 plt, 1-2-3 hen, 1-2-3 pen fowls, 1-2-3 pen chicks. R. C. Reds, 1-2-4 cock, 2-4 hen, 1 ckl, 1-2 plt, 1 pen fowls, 1 pen chicks. White Wyandottes, 1-3 cock, 1-2-3 hen, 2 ckl, 1-2 plt, 1-2-3 pen fowls, 1-2-3 pen chicks.

Novak Poultry Yards, R. 1, Racine Wis., reports the following winnings on their White Orpingtons at the Wisconsin State Fair, Milwaukee, Sept. 11-16, 1916: 1 hen, 1 ckl, 1-2 plt, 3-4 cock.

E. J. Harbin, Lock Box A, 1295, Riverside, Ill., reports that he had the leading pen at the National Egg Laying Contest, winning trophy and money prizes on his pen of S. C. White Leghorns.

Chas. G. Pape, Ft. Wayne, Ind., reports the following winnings on his S. C. Black Minorcas: At Interstate Fair, South Bend, Ind., Sept. 12-16, 1916, 1-2-3 cock, 12-3 hen, 1-2-3-4 ckl, 1-2-3-4 plt, 1 old and 1 young pen, A. P. A. gold medal for championship ckl. At Tennessee State Fair, Sept. 17-23, 1916, 1-2-3 cock, 1-2-3-4 hen, 1-2-3 ckl, 1-2-3-4 plt, 1 young and 1 old pen, gold special for best display. State Fair of Texas, Dallas, Oct. 14-29, 1916, 1-2-4-5 cock, 1-2-3-4 hen, 1-2-3-4-5 ckl, 1-2-3-4-5 plt, 1-2-3-4 pen, 1-2 flock (one male and eight female).

Louis H. Perry, Clay, N. Y., reports the following winnings, at Allentown, Pa., Sept. 1916, on Fawn Runners, 1 old drake, 3 old duck, 1 young drake, 1 young duck. On R. C. White Leghorns, 2 cock, 2 hen, 2 pen. At Brockton, Mass., Oct., 1916: R. C. White Leghorns, 1 cock, 1-3-4 hen, 1 ckl, 1 plt. On Fawn Runners, 2-3 young drake, 2-4 young duck, 3-4 old drake, 3-5 old duck. At Hagerstown, Md., Oct., 1916, on Fawn Runners, 1 young duck, 3 young drake, 4 old drake, 5 old duck.

Sunswick Poultry Farm, South Plainfield, N. J., report the following winnings on their Buff Orpingtons at Augusta, Ga., November, 1916: 1-2-3-4 cock, 1-2 hen, 1-2-3-5 ckl, 1-2-4-5 plt, 1-2 pen. At Trenton Fair, N. J.: 1-2 cock, 1-2 hen, 1-2 ckl, 1-2 plt, 1-2 pen.

J. F. Robinson, South Weymouth, Mass., reports the following winnings on Black Langshans at New York State Fair, 1916: 1 cock, 1-2 hen, 1-2 ckl, 1-2 plt, 1 pen, special for best display. At Brockton, Mass., October, 1916: 2-3 cock, 1-2 hen, 1-2 ckl, 1-2 plt, 1-2 pen.

A NEW CLUB

Twenty-five persons have enrolled as charter members in the La Crosse Pigeon and Pet Stock Club, a new organization formed to encourage the breeding of pet stock, especially among the youth of the city. Officers have been elected as follows: President, C. F. Swerman, 303 West Avenue North; first vice president, Walter Jagow, 808 West Avenue South; second vice president, W. A. Bosch, 1426 Badger Street; treasurer, W. T. LaTulip, 609 North Ninth Street; secretary, D. V. Lawell, 1121 Perry Street, La Crosse, Wis. "It is the intention of this club to affiliate with the National Pet Stock Association, having a membership of about 3,000, formed for the purpose of mutual assistance and protection to pet stock breeders. Shows will be held yearly after club has become well organized. An especial effort will be made to interest women in the work of this club. The yearly dues are \$1 for persons 20 years of age or older, and 50 cents for persons under 20 years. An officer of this organization will be glad to get in touch with persons interested in a movement of this kind."

WINNERS in all Egg-Laying Competitions ::

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Reds—Highest Award in their class, North American Contest, five hens laying 1043 eggs, 209 average. Highest official Red record we know of.

White Wyandottes, Missouri Contest, our ten laid 200 eggs, one laying 265 eggs.

Write today for Free Book, "The Story of the 200-Egg Hen," full of valuable information.

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Box A, Lancaster, Pa.



SHOW DATES

CALIFORNIA.

Dec. 6-9, 1916. Modesta; Stanislaus Poultry Assn., W. S. Russell, C. G. Hinds, H. A. Currier, judges; James D. Yates, sec.
 Dec. 12-16, 1916. Harper; Orange County Fanciers Assn., C. A. Wilkinson, sec.
 Jan. 3-9, 1917. Los Angeles; Poultry Breeders Assn. of Southern California; Purdy, Goodacre, Emerson, Masterson, judges; Walter Ross, sec., 224 W. Colorado st., Glendale, Cal.

CANADA.

Dec. 4-8, 1916. Moose Jaw, Sask.; Moose Jaw Poultry Assn.; C. R. Tweney, supt.
 Dec. 5-8, 1916. Vancouver, B. C.; M. Coats, judge; J. Barclay, sec'y, Box 1001, Vancouver, B. C., Canada.
 Jan. 3, 4, 5, 1917. Napanee, Ont.; Napanee Poultry Assn.; Geo. Robertson, judge; G. B. Curran, sec.

COLORADO.

Jan. 1-6, 1917. Denver; Colo. Poultry Fanciers Assn.; S. B. Johnston, H. H. Chase, judges; Geo. M. Littler, sec., 4192 Chase st.
 Jan. 8-11, 1917. Brush; No. Eastern Colorado Poultry Assn.; F. H. Shellabarger, judge; J. L. Cameron, sec.
 Jan. 8-12, 1917. Greeley; The Weld County Poultry Assn.; H. F. Shellabarger, judge; F. A. Ogle, sec'y.
 Jan. 22-27, 1917. Denver; National Western Poultry Show; James Tucker, Geo. Wells, judges; W. C. Schuman, mgr., 400 So. Emerson st.

CONNECTICUT.

Jan. 23-26, 1917. Middletown; Middlesex County Poultry and Pet Stock Assn.; P. P. Ives, C. H. Wells, W. R. Pierson, judges; Chas. L. Bliss, sec.

DELAWARE.

Dec. 5-9, 1916. Wilmington; Diamond State Poultry and Pigeon Assn.; Frank M. Smith, sec., 903 Adams st.

DISTRICT OF COLUMBIA.

Jan. 16-20, 1917. Washington; National Capital Poultry and Pigeon Assn.; J. C. Kriner, F. L. Platt, judges; D. D. Lillie, sec., 227 Maple ave., Takoma Park, D. C.

IDAHO.

Jan. 8-13, 1917. Boise; Idaho State Poultry and Pet Stock Assn.; Mrs. Belle Silver-smith, sec., 1929 N. 19th st.

ILLINOIS.

Dec. 4-9, 1916. Beardstown; Cass County Poultry Assn.; D. T. Heimlich, judge; V. L. Adelmann, sec.

Dec. 4-9, 1916. Milledgeville, Ill.; Milledgeville Poultry Assn.; Elmer Gimlin, judge; C. A. Straka, sec.

Dec. 4-8, 1916. Hoopston; Hoopston Poultry Assn.; D. T. Heimlich, judge; Wm. Johnson, sec., R. F. D. No. 3.

Dec. 4 to 9, 1916. Lanark; Lanark Poultry, Pet Stock and Grain Assn.; F. H. Shellabarger, judge; Mrs. J. A. Shaner, sec.

Dec. 4-9, 1916. Mt. Carmel; The Wabash County Poultry Assn.; Geo. H. Northup, judge; Dr. R. C. Bell, sec.

Dec. 4-9, 1916. Galva; Henry County Poultry Assn.; T. E. Quisenberry, judge; M. M. Ford, sec'y.

Dec. 5-8, 1916. Virden; Virden Poultry Assn.; Mr. Johnson, judge; C. W. Turner, sec'y.

Dec. 5-8, 1916. Murphysboro; Jackson County Poultry Assn.; Joseph Dagle, judge; O. L. Rawlins, sec.

Dec. 5-9, 1916. Alton; Alton Poultry Assn.; O. E. Harlow, sec'y.

Dec. 5-10, 1916. Woodstock; McHenry County Poultry Assn.; T. J. Rountree, judge; M. C. Davis, sec.

Dec. 6-10, 1916. Savanna; Western Ill. Fanciers Assn.; Atkin, judge; E. A. Stouvenel, sec., R. R. No. 4.

Dec. 7-8, 1916. Bridgeport; The Lawrence County Poultry Assn.; E. G. Teaney, judge; T. G. Hill, sec.

Dec. 11-16, 1916. Danville; The Vermillion County Fanciers Assn.; J. Brady, sec.

Dec. 11-16, 1916. Victoria; The Victoria Poultry Assn.; J. C. Johnston, judge; J. L. Ray, sec'y.

Dec. 11-16, 1916. Macomb; McDonough County Poultry Assn.; D. E. Hale, judge; Walter R. Purdum, sec.

Dec. 12-16, 1916. Farmington; Farmington Poultry Assn.; E. M. Quay, judge; Jas. H. Fash, sec.

Dec. 12-15, 1916. Monticello; The Platt County Poultry Assn.; J. J. Klein, judge; G. E. Morgan, sec.

Dec. 12-15, 1916. Girard; Girard Poultry Assn.; S. B. Mills, judge; Thos. H. Stutzman, sec.

Dec. 12-16, 1916. Streator; Streator Poultry Assn.; J. A. Leland, judge; E. J. Schroeder, sec.

Dec. 13-18, 1916. Chicago; Coliseum Show; Theo. Hewes, sec'y., Indianapolis, Ind.

Dec. 14-16, 1916. Blue Mound; Blue Mound Poultry Assn.; J. J. Klien, judge; Geo. P. Ritchie, sec.

Dec. 18-22, 1916. Ottawa; La Salle County Poultry and Pet Stock Assn.; T. B. Kendrick, sec'y.

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Next Show Dec. 14 to 20, 1916. \$100.00 to be awarded on displays in four purses; other big cash premiums and 12 Silver Cups. Comparison judging. Geo. M. Wells, and G. W. Hackett, judges. Entries Close Dec. 12th, 1916. Uniform coops. This is the A. P. A. State show. Two day Institute program. GUY S. LEE, Secretary, BELOIT, WISCONSIN

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At Kansas City, Kansas, Dec. 12-15, 1916. Premium list now ready. Entries close Dec. 9th. For particulars, address Wm. Hunter, Sec., Kansas City, Kansas.

JASPER COUNTY POULTRY ASS'N

Rensselaer, Ind., Jan. 1-6, 1917.

F. W. Troviss, Judge. For full particulars write the secretary, J. H. Webber, Rensselaer, Indiana.

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First Annual Show, Dec. 19, 20, 21, 22, 23, 1916 at Ottawa, Ills. Comparison Show. Gold Coins and Silver Cup Specials. For premium list write T. B. Kendrick, Sec'y, at Nat'l City Bank, Ottawa, Ills.

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January 3-7, 1917 at Superior, Wisconsin

pay largest premiums of any show in the Northwest. Hoffman, Judge by Hale's Score Card. For premium list write John Tyson, Sec'y, 2513 Wellington St., Superior, Wis.

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Black and Buff Orpingtons Red Sussex

Birds of Grand Color, Size and Type, Bred to Win and Lay.

Won at Chicago, 1916, 1-2-3 cocks, 1-2-3-4-5 cockerels, 1-2-3-4-5 pullets, 2-3-4-5 hens, 1st young pen; no old pen shown.

At the 1916 State National Black Orpington Club Meeting, Cleveland, won 1-2 cocks, 2-3 cockerels, 1-2-3 pullets, 1-2-4 hen; no pens shown.

Winners at many other shows. Exhibition and utility cocks, cockerels, hens and pullets in all three varieties for sale. Guaranteed winners for all shows. Birds shipped on approval. Satisfaction absolutely guaranteed or money refunded. Send for catalog.

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H. J. RILEY

Box A

Bryan, Ohio

Dec. 18-22, 1916. Pontiac; Livingston County Poultry Assn., C. A. Tuttle, sec.
Dec. 18-23, 1916. Carbinville; Macoupin County Poultry Assn.; J. C. Clipp, judge; Paul Trabue, sec'y.
Dec. 18-23, 1916. Belvidere; Northern Ill. Poultry Assn.; E. G. Roberts, judge; W. G. Lampert, sec., 811 Prairie st.
Dec. 21-26, 1916. Forest Park; Proviso Poultry Fanciers Assn., R. C. Jamieson, sec., 1019 N. 5th ave., Maywood, Ill.
Dec. 26-29, 1916. Batavia; Batavia Poultry Assn.; D. E. Hale, judge; Chas. A. Pierce, sec.
Dec. 26-29, 1916. Harrisburg; Egyptian Poultry and Pet Stock Assn.; Cal Lewis, sec'y.
Dec. 26-31, 1916, to Jan. 1, 1917. Capron; Capron Poultry Assn.; Geo. M. Wells, judge; J. C. Nettleton, sec.
Dec. 28-29, 1916. Bridgeport; Lawrence County Poultry Assn.; E. G. Teaney, judge; T. G. Hill, sec'y.
Dec. 28-31, 1916, to Jan. 1-3, 1917. Springfield; Ill. Poultry Breeders Assn.; Russell, Johnston, Hale, Heyl, Klein, Heimlich, McCord, Leland, judges; A. D. Smith, sec., Quincy, Ill.
Jan. 1-6, 1917. Olney; Richland County Poultry Assn.; Heimlich, judge; C. W. Marlow, sec'y.
Jan. 1-6, 1917. Aurora; Aurora Poultry and Pet Stock Assn.; Hale, judge; C. L. Valentine, sec.
Jan. 3-6, 1917. Chicago Heights; Chicago Heights Poultry Assn.; E. M. Quay, judge; A. E. Page, sec.
Jan. 8-13, 1917. Rockford; Rockford Poultry and Pet Stock Assn.; Earl Hemenway, judge; Theo. Van De Mark, 216 N. Second st., Rockford, Ill.
Jan. 8-13, 1917. Galesburg; Knox County Poultry and Pet Stock Assn.; Harry Atkins, Geo. Heyl, judges; Edw. A. Tate, sec., 118 Main st.
Jan. 8-13, 1917. Havana; Mason County Poultry Fanciers Assn.; J. W. Zimmerer, judge; H. W. Chambers, sec.
Jan. 8-13, 1917. Kankakee; Kankakee Poultry and Pet Stock Assn.; H. C. Dippel, judge; E. F. Radeke, sec.
Jan. 8-13, 1917. De Kalb; Kiswaukee Poultry and Fanciers Assn.; Heimlich, judge; W. W. Hyde, sec'y.
Jan. 8-13, 1917. Joliet; Des Plaines Poultry Assn.; J. A. Leland, judge; A. S. Schaller, sec'y, 1405 N. Center st., Joliet, Ill.
Jan. 8-14, 1917. Paxton; Eastern Illinois Poultry and Pet Stock Assn.; W. C. Pierce, judge; Walter Nordgren, sec.
Jan. 9-12, 1917. Carbondale; Down State Poultry Assn.; Geo. Hyle, judge; F. W. Meyers, sec.
Jan. 10-16, 1917. Stock Yards, Chicago; Greater Chicago Show; D. E. Hale, sec'y, 900 Monon Bldg., Chicago, Ill.
Jan. 15-20, 1917. Decatur; Decatur Poultry and Pet Stock Assn.; Chas. McClave, J. J. Klein, judges; H. B. Lowe, sec., R. 9.

INDIANA.

Dec. 4-9, 1916. Indianapolis; Indianapolis Breeders of Poultry and Pet Stock Assn.; G. C. Ott, sec., 1063 Virginia ave.
Dec. 6 to 10, 1916. Terre Haute; Terre Haute Poultry Assn.; J. C. Johnston, judge; Harry Forbes, sec., 2601 N. 11th st.
Dec. 11-16, 1916. Marion; Northern Ind. Poultry Assn.; S. G. Case, judge; O. D. Weesner, sec., 1210 S. Boots st.
Dec. 18-24, 1916. Logansport; Logansport Fanciers Club; H. C. Dipple, judge; L. E. Ray, sec'y.
Dec. 19-22, 1916. Mitchell; Mitchell Poultry Assn.; Colip, judge; Chas. D. McIntire, sec.
Jan. 1-7, 1917. Rensselaer; Jasper County Poultry Assn.; F. W. Traviss, judge; J. H. Webber, sec'y.
Jan. 2-6, 1917. Berne; Berne Poultry Assn.; Harry Atkins, judge; J. J. Hilty, sec'y.
Jan. 2 to 7, 1917. South Bend; So. Bend Poultry and Pet Stock Assn.; Northrup, Pierce and Terrel, judges; C. R. Montgomery, sec.
Jan. 8-13, 1917. Brazil; Brazil Poultry Club; B. H. McCracken, judge; J. C. Mac Donald, sec.
Jan. 8-13, 1917. La Fayette; H. C. Miller, judge; L. J. Munger, sec.
Jan. 9-12, 1917. Bedford; Lawrence County Poultry Assn.; W. W. Zike, judge; John G. Hogan, sec'y.
Jan. 17-21, 1917. Fort Wayne; The Great Triangle Poultry Show; H. A. Pickett, Geo. H. Northrup, C. E. George, judges; J. C. Howenstein, sec., 219 E. Columbia st.

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January 15th to 20th, 1917

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IOWA.

Dec. 1-7, 1916. Traer; Traer Poultry Assn.; H. W. Atkins, judge; T. J. McGinnis, sec.

Dec. 4 to 8, 1916. Atlantic; Botna Valley Poultry Assn.; A. B. Shauer, judge; Max Ross, sec.

Dec. 4-8, 1916. Iowa City; The Iowa City Poultry Assn.; Glen F. Richards, judge; Jake L. Yager, sec., Box 202.

Dec. 4-8, 1916. Villisca; The Villisca Poultry Assn.; Mrs. Chas. Warren, sec.

Dec. 5-8, 1916. Centerville; Appanoose County Poultry Assn.; show called off.

Dec. 8-14, 1916. Des Moines; Iowa Poultry and Pet Stock Assn.; D. E. Hale, E. C. Branch, R. Palmer, judges; C. P. Headington, sec., 209-211 Walnut st.

Dec. 11 to 15, 1916. Clarinda; Southwest-ern Iowa Poultry Assn.; V. O. Hobbs, judge; J. V. Pfander, sec.

Dec. 12-15, 1916. Hampton; Hampton Poultry Assn.; Glen F. Richards, judge; H. W. Hardy, sec.

Dec. 26-29, 1916. Lowden; Lowden Poultry Assn.; F. H. Shellabarger, judge; O. C. Pancratz, sec.

Jan. 1-6, 1917. Burlington; Burlington Poultry Assn.; J. A. Tucker, L. C. Dietz, judges; John A. Dehner, sec.

Jan. 1-7, 1917. Marshalltown; Marshalltown Poultry Assn.; W. G. Warnock, judge; C. C. Lowmsberry, sec., 405 E. State st.

Jan. 2-5, 1917. Mt. Vernon; Mt. Vernon Poultry Assn.; F. H. Shellabarger, judge; H. C. Gilliland, sec.

Jan. 4-9, 1917. Dubuque; Iowa State Poultry Assn.; Tucker, Dale, Athens, judges; Walter Hurd, sec., 2222 Grandview ave.

Jan. 8-12, 1917. Mason City; Upper Iowa Poultry Assn.; Joseph Dagie, judge; B. A. Wisner, sec.

Dec. 11-15, 1916. Mt. Pleasant; Henry County Poultry Assn.; Shanklin, judge; Geo. W. Garvin, sec'y.

Dec. 12-15, 1916. Red Oak; Geo. H. Northup, judge; Geo. W. Wood, sec'y.

Jan. 15-22, 1917. New Hampton; Northern Iowa Poultry Assn.; F. H. Shellabarger, judge; C. B. Phillips, sec'y.

Jan. 22-26, 1917. Cedar Rapids; Western Poultry Fanciers Assn.; F. H. Shellabarger, U. J. Shanklin, judges; H. J. Whitfield, sec.

KANSAS.

Dec. 11-16, 1916. Greensburg; Kiowa County Poultry Assn.; P. H. Landrith, sec.

Dec. 4-9, 1916. Fredonia; Wilson County Poultry and Pet Stock Assn.; E. W. Cook, judge; A. K. Sell, sec.



A shipment of 120 hens and 12 cockerels made by Elliott Poultry Farm, Mansfield, Ohio, to Julio R. Bannatyne, Jovellanos, Cuba.

Dec. 5-8, 1916. Kingman; Jno. C. Snyder, judge; V. M. Ravenscroft, sec.

Dec. 12-15, 1916. Kansas City; Kansas City Mid-West Poultry Assn.; C. A. Emry, T. L. Pollock and Shedd, judges; Wm. Hunter, sec., 2648 N. 22nd st.

Dec. 12-15, 1916. Plainville; J. C. Snyder, judge; A. Wiley, sec.

Dec. 11-16, 1916. Independence; Independence Poultry Club; W. H. Scott, A. T. Modlin, judges; M. H. Hunter, sec., Box 110.

Dec. 12-16, 1916. Holton; Ralph Searle, judge; Herb D. Wilson, sec'y.

Dec. 18-22, 1916. Pittsburg; The Kansas State Poultry Federation; Quisenberry, Branch and McClaskey, judges; D. J. Mackey, sec., 912 Raue st.

Jan. 1-5, 1917. Hutchinson; The Arkansas Valley Poultry Assn.; J. J. Atherton, W. C. Tallant, judges; W. B. Powell, sec., 622 13th st. West.

Jan. 2-5, 1917. Leavenworth; Leavenworth Poultry Assn.; E. C. Branch, judge; Chas. M. Swan, sec., Lansing, Kas.

Jan. 2-6, 1917. Solomons; J. C. Snyder, judge; E. C. Comstock, sec.

CYPHERS MAMMOTH INCUBATOR

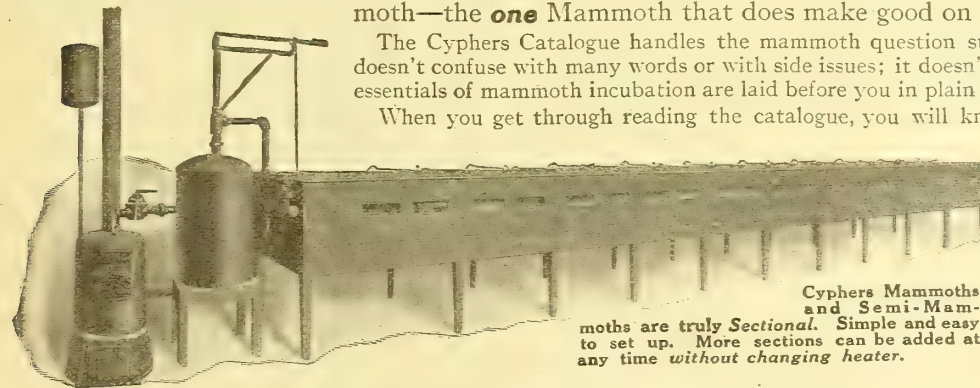
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KENTUCKY.

Jan. 5-9, 1917. Lexington; Ky. Experiment Sta., J. J. Hooper, sec.
Jan. 8-13, 1917. Louisville; Ohio Falls Fanciers Assn.

LOUISIANA.

Dec. 13-16, 1916. Alexandria; Central La. Poultry and Pet Stock Assn.; F. J. Marshall, judge; W. H. McCrackin, sec.

MAINE.

Dec. 5 to 7, 1917. Sanford; York County Poultry Assn.; L. J. Holmes, sec.

MASSACHUSETTS.

Dec. 5-7, 1916. Greenfield; New England Poultry Assn.; H. Nickolson, F. Wineson, judges; J. H. Bulman, sec.
Dec. 6-8, 1916. Abington; Abington Poultry Assn.; Pratt, Ballou, Shove, judges; Leroy Grinnell, sec., 91 Chapel st.
Dec. 12-14, 1916. Gloucester; Gloucester Poultry Assn.; Chas. Ballou, F. G. Cook, Burbank and Deacon, judges; Ernest Deacon, sec., Annisquam, Mass.

Dec. 13-15, 1916. Norwood; Norwood Poultry Assn.; Shove, Cook, Smith, judges; E. D. Baker, sec., 38 Nichols st.

Dec. 13-16, 1916. Taunton; Taunton Poultry Assn.; Alton G. Clay, sec., Box 45.

Dec. 19-22, 1916. Springfield; Springfield Poultry Club; P. Ives, I. F. Rice, C. H. Wells, judges; G. L. Colletter, sec., Box 1226.

Jan. 3-5, 1917. Shelburne Falls; Shelburne Falls Poultry Assn.; C. H. Shaylor, judge; Geo. W. McKnight, sec.

Jan. 9-13, 1917. Boston; The Boston Poultry Assn.; W. B. Atherton, sec'y, 36 Bromfield st.

MICHIGAN.

Dec. 5-8, 1916. Zeeland; Zeeland Poultry and Pet Stock Assn.; W. A. Bonner, judge; Jno. A. Harberger, sec.

Dec. 7-12, 1916. Battle Creek; Battle Creek Poultry Assn.; W. M. Wise, judge; John Conroy, sec., 308 Ward bldg.

Dec. 13-17, 1916. Wyandotte; Wyandotte Poultry and Pet Stock Assn.; Thos. Falkner, judge; G. A. Smock, sec., 80 Walnut st.

Dec. 18-24, 1916. Kalamazoo; Kalamazoo Poultry Fanciers Assn.; N. P. Paulson, sec., Oakwood, Mich.

Dec. 21-25, 1916. Holland; Holland Poultry Assn.; Wm. Wise, judge; Wm. Drinkeloo, sec.

Jan. 1-6, 1917. Kalamazoo; So. West Mich. Poultry Assn.; Johnston of Springfield, Ill., judge; Bert L. Shotts, sec., R. F. D. Augusta.

Jan. 8-13, 1917. Flint; The Flint Poultry and Pet Stock Assn.; Thos. S. Falkner and others, judges; Neil A. Dewar, sec'y, 1721 West 3rd ave., Flint, Mich.

Jan. 8-13, 1917. Blissfield; The Blissfield Fanciers Club; J. W. Mullinax, judge; R. C. Clement, sec'y.

Jan. 9-14, 1917. Owosso; Michigan Poultry Breeders Assn.; F. M. Crowe, sec'y.

Jan. 16-19, 1917. Grand Rapids; West Mich. Poultry Assn.; J. H. Drevenstedt, judge; John Bowstrom, sec., 632 Sinclair av.

Jan. 16-20, 1917. Ludington; Mason County Poultry and Pet Stock Assn.; C. A. Blass, judge; O. E. Hawley, sec., R. No. 3.

Jan. 23-27, 1917. Muskegon; Muskegon and East Shore Poultry Assn.; Wm. Wise, judge; H. S. Noble, 15 Barney ave., Muskegon Heights, Mich.

Jan. 24-29, 1917. Bay City; Bay City Poultry Assn.; J. W. Mullinax, judge; R. H. Schafer, sec., 1425 Trumbull ave.

Jan. 26-31, 1917. Detroit; Michigan Poultry Breeders Assn.; Jas. Tucker, G. M. Wells, Wm. Wise, judges; F. M. Crowe, sec., Owosso, Mich.

Jan. 29 to Feb. 1, 1917. Ionia; The Ionia County Poultry and Pet Stock Assn.; Wm. M. Wise, judge; V. K. Williams, sec.

MINNESOTA.

Dec. 12-15, 1916. Two Harbors; Lake County Poultry Assn.; Henry Hess, judge; Fred D. W. Thias, sec.

Dec. 12-16, 1916. Winona; E. H. Hoffman, A. C. Smith, judges; A. G. Sklenar, sec.

Dec. 15-17, 1916. Virginia; Range Poultry Assn.; A. C. Smith, judge; G. D. Lizer, sec'y.

Jan. 18-22, 1917. St. Cloud; Central Minn. Poultry Assn.; H. C. Nierengarten, sec'y.

Feb. 2-6, 1917. Duluth; The Duluth Poultry Assn.; Geo. W. Hackett, judge; S. B. Suydam, sec., 221 E. Fifth st.

MISSOURI.

Dec. 5-9, 1916. St. Joseph; Eucharan County Poultry Assn.; Hale, Southard, Thompson, judges; S. R. Casper, sec., 117 S. 8th st.

Dec. 4-7, 1916. Richmond; Ray County Poultry Assn.; E. C. Branch, judge; C. A. Brown, sec., R. F. D. No. 2.

Dec. 5-9, 1916. St. Joseph; Missouri State

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Poultry Assn.; Hale, Southard, Thompson, Palmer, judges; Fred Crosby, sec., Mountain Grove, Mo.

Dec. 6-9, 1916. Kirksville; Adair County Poultry Assn.; E. C. Branch, judge; Walter Martin, sec.

Dec. 11-16, 1916. Joplin; Mineral Belt Poultry and Pet Stock Assn.; E. W. Rawkin, L. C. Taylor, judges; Dr. C. S. Tisdale, sec.

Dec. 14-16, 1916. Dexter; Stoddard County Poultry Assn.; Tom Woods, judge; J. L. Smithson, sec.

Dec. 19-21, 1916. Louisiana; Pike County Poultry Assn.; D. T. Heimlich, judge; C. H. Winn, sec.

Dec. 19-23, 1916. Maryville; Northwest Mo. Poultry Assn., Joseph H. Saylor, sec.

Dec. 28-30, 1916. Kennett; Elmer Gimlin, judge; A. C. Landell, sec.

Jan. 1-7, 1917. Springfield; Greene County Poultry Assn.; C. A. Emery, judge; C. H. Fawcett, sec.

Jan. 8-13, 1917. Kansas City; The Kansas City Poultry Show; V. O. Hobbs, T. E. Quisenberry, T. W. Southard, A. J. Meyer, V. H. Southard, judges; E. L. Noyes, sec., Manhattan bldg.

MONTANA.

Jan. 15-20, 1917. Kalispell; Northwest Montana Poultry Assn.; C. A. Greenfield and O. Nelson, judges; G. Fred'k Tate, sec., Box 707.

NEBRASKA.

Dec. 4-9, 1916. Beatrice; Beatrice Poultry Assn.; G. E. Schreff, judge; David O. Kasling, sec., R. 2.

Jan. 8-11, 1917. Wymore; Wymore Poultry Assn.; Guy E. Schreff, judge; J. Martz, sec.

NEW HAMPSHIRE.

Dec. 5-8, 1916. Laconia; Lake City Poultry Assn.; Burbank, judge; R. L. Piper, sec.

Dec. 12-14, 1916. Marlboro; Marlboro Poultry and Pet Stock Assn.; David Coutts, Jr., sec., Box 36.

Dec. 12-15, 1916. Derry; Derry Poultry Assn.; Cutting and Nicholson, judges; E. A. Cross, sec., 27 Birch st.

NEW JERSEY.

Dec. 8-9, 1916. Town Hall, Woodbury. The Gloucester County Poultry Assn.; L. Chessman, sec., Sewell, N. J., Box 22.

Jan. 15-20, 1917. Morristown; Morristown Poultry and Pet Stock Assn.; D. F. Williamson, sec'y, 33 Western ave., Morristown, N. J.

NEW MEXICO.

Dec. 10-17, 1916. Portales Clovis; Eastern New Mexico Poultry Assn.; Shellabarger, judge; Jno. L. Reid, sec.

NEW YORK.

Dec. 4-8, 1916. Sidney; Unadilla Valley Poultry and Pet Stock Assn.; Archie E. Vandervort, sec., Sidney Centre.

Dec. 5-9, 1916. New York; Empire Poultry Assn.

Dec. 11-16, 1916. Buffalo; The Greater Buffalo Show, Wm. H. Gaude; sec., 322 Electric bldg.

Dec. 18-22, 1916. Oneonta; Oneonta Poultry and Pet Stock Assn.; Frank Hanes, sec.

Dec. 19-22, 1916. Oxford; Chenango Valley Poultry and Pet Stock Assn.; Wm. O. Cooper, sec.

Dec. 25-30, 1916. Jamestown; Chautauqua County Poultry Assn.; Alt. Ellison, Burgott, judges; Wm. S. Rathbun, sec., 8 Kingsbury ave.

Dec. 28, 1916, to Jan. 3, 1917. New York; Madison Square Garden; Chas. D. Cleveland, sec., Madison Square Garden.

Jan. 8-13, 1917. Rochester; Genesee Valley Poultry Assn.; Boyd Johnson, H. W. Alt and others, judges; James H. Westcott, sec'y, P. O. Box 472, Rochester, N. Y.

Jan. 10-13, 1917. Elmira; Chemung Co. Poultry Assn.; F. Bradford, judge; H. B. Peckham, sec'y, 208 Scotwood ave., Elmira Heights, N. Y.

Jan. 15-21, 1917. Utica; The Central New York Poultry and Pet Stock Assn.; L. J. Bushnell, sec'y, Oriskany, N. Y.

Jan. 22-27, 1917. Granville; Mrettowee Valley Poultry and Pet Stock Assn.; J. D. Jaquis, J. F. Van Alstyne, judges; D. B. Biaymer, sec'y.

NORTH CAROLINA.

Dec. 6-9, 1916. Charlotte; Mecklenburg Poultry and Pet Stock Club; Chas. Nixon, judge; Howard C. Hull, sec., Paw Creek, Route No. 10.

NORTH DAKOTA.

Jan. 31 to Feb. 1-2, 1917. Bismarck; Mo. Slope Poultry Assn.; E. S. Roberts, judge; Frank Milhollan, sec.

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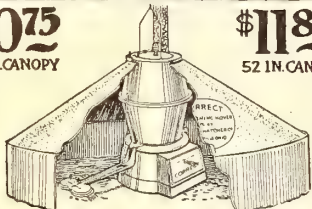
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Harrison Leghorn Farms Shelby, Mich.

OHIO.

Dec. 6-8, 1916. New Concord; New Con-
cord Poultry Assn.; Chas. E. Cram, judge;
F. F. Pollock, sec.

Dec. 11-16, 1916. Kent; Kent Poultry
Assn.; Claude E. Coe, judge; F. R. Williams,
sec.

Dec. 11-16, 1916. Defiance; L. A. Stream,
judge; Geo. E. Miller, sec.

Dec. 12-16, 1916. Zanesville; The Zanes-
ville Fanciers Assn.; A. C. Hawkins, judge;
Geo. H. Wilkins, sec.

Dec. 18-23, 1916. Jenera; H. C. Miller,
judge; A. E. Wilch, sec.

Dec. 13-23, 1916. New Knoxville; Geo. H.
Northup, judge; H. W. Loescher, sec'y,

Wapakoneta, Ohio.

Dec. 28-31, 1916, to Jan. 1, 1917. San-
dusky; Sandusky Poultry Assn.; L. C. Tay-
lor, judge; Louis Lonz, sec'y.

Jan. 1-6, 1917. Lima; Lima Poultry Assn.;
J. M. Fowls, sec'y.

Jan. 1-6, 1917. Ashland; Ashland Poultry
Breeders Club; J. O. Gault, judge; W. H.
Yunker, sec.

Jan. 1-6, 1917. Kenton; Kenton Poultry
Assn.; H. C. Miller, judge; Jno. P. Siemon,
sec., R. F. D. No. 7.

Jan. 2-6, 1917. Waynesville; Miami Valley
Poultry Assn.; S. G. Case, judge; L. C. St.
John, sec.

Jan. 2-8, 1917. Lancaster; Lancaster Poul-
try Assn.; Whitaker, judge; Thos. Baur, sec.
Jan. 3-6, 1917. Woodsville; Chas. McClave,
judge; Ray Kinney, sec.

Jan. 8-13, 1917. Columbus; Columbus Poul-
try Assn.; D. D. Whitaker, E. T. Jacobs, L.
Rawnsley, judges; W. S. Limes, sec'y, Linden
Heights, Ohio.

Jan. 8-13, 1917. Cleveland; The Cleveland
Poultry Breeders Assn.; Platt, Gault, Stream,
Tormohlen, Johnson, judges; J. O. Somers,
sec., Bedford, Ohio.

Jan. 8-14, 1917. Mt. Victory; The Mt.
Victory Poultry Assn.; Z. D. Struble, judge;
L. J. Thompson, sec.

Jan. 9-13, 1917. Shelby; The Shelby Poul-
try Assn.; Joe Coleman, judge; M. L. Norris,
sec'y.

Jan. 9-13, 1917. Wauseon; Wauseon Poul-
try and Pet Stock Assn.; F. W. Travis,
judge; Harry L. Merrill, sec.

Jan. 10-13, 1917. Jamestown; The James-
town Poultry Assn.; T. Faulstich, judge; R.
H. Glass, sec.

Jan. 15-20, 1917. Gallipolis; Gallia Poultry

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water, O., won in the
Successful Farming Con-
test, getting 181 chicks
from 181 eggs in two
hatches.

3rd Year

Mrs. J. W. Mize,
Vaughans Mills, Ky.,
won in the Successful
Farming Contest,
hatching 208 chicks
from 208 eggs, 2 settings.

4th Year

Mr. F. H. Lewis, Mont-
rose, Pa., won in Suc-
cessful Farming Con-
test, getting 96 chicks
from 96 eggs in one
setting.

5th Year

Mrs. C. C. Rich, Russia-
ville, Ind., won in the Suc-
cessful Farming Hatch-
ing Contest, getting 94
chicks from 94 eggs—the
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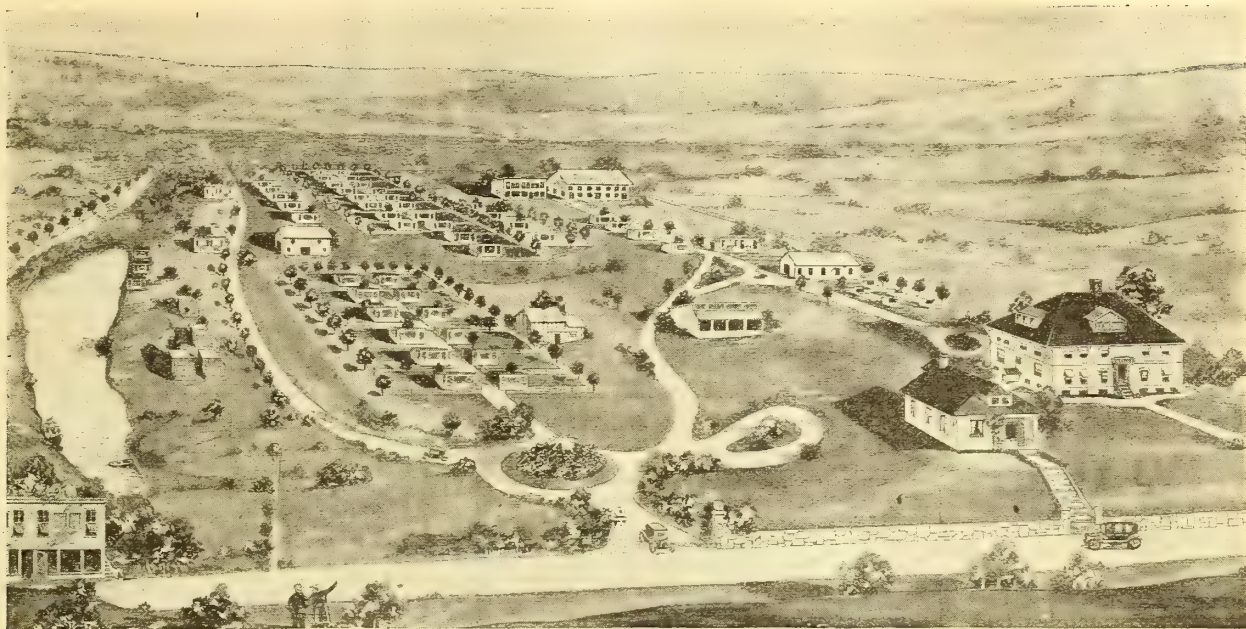
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Assn.; W. C. Young, judge; C. J. McCormick, sec.

Jan. 15-21, 1917. Galian: The Galian Poultry Fanciers; F. K. Ricketts, judge; A. D. Diamond, sec.

Jan. 16-20, 1917. Wadsworth: The Wadsworth Poultry Assn.; Morgan Neath, sec'y.

Jan. 16-20, 1917. Clyde: Clyde Poultry Assn.; J. E. Gault, judge; Earl A. Miller, sec.

Jan. 17-21, 1917. Port Clinton; D. D. Whitaker, judge; G. T. Conly, sec., 216 3rd street.

Jan. 22-27, 1917. Marietta: The Ohio Valley Poultry Assn.; J. E. Gault, judge; T. N. Penn, sec.

Jan. 22-27, 1917. Delphos: Tri-County Fanciers Assn.; Dr. F. A. Young, sec'y.

Jan. 23-27, 1917. Amherst: Amherst Scientific Poultry Assn.; Geo. Northup, judge; Chas. M. Hamann, sec.

Jan. 29 to Feb. 3, 1917. Eaton: The Preble County Poultry Assn.; Theo. E. Hewes, judge; H. E. Dalrymple, sec'y.

OKLAHOMA.

Dec. 12-16, 1916. Woodward: North West Okla. Poultry Assn.; V. H. Southard, K. C. Geo. judges; Dr. C. J. Forney, sec.

Dec. 14-16, 1916. Sulphur: Murray County Poultry Assn.; Walter S. Bowers, judge; H. W. Broadbent, sec.

Dec. 19-23, 1916. Alva; J. C. Snyder, judge; W. Sedore, sec.

Dec. 28-30, 1916. Ada; Pontotoc County Poultry Assn.; W. Bowers, judge; T. O. Cullin, sec., Box 182.

Jan. 1-6, 1917. Okmulgee; Okmulgee County Poultry Assn.; W. G. Rollins, sec.

Jan. 8-13, 1917. Enid; Big Center Poultry and Pet Stock Assn.; Tom Wood, judge; C. C. Evans, sec.

Jan. 10-13, 1917. Carnegie; Jno. C. Snyder, judge; P. C. Dawson, sec.

OREGON.

Dec. 4-9, 1916. Portland; Oregon Poultry and Pet Stock Assn.; J. A. Tucker, B. F. Keeney, Wm. Coats, Tom Wilkinson, O. Nelson, judges; J. M. Mann, sec., 382 Stark st.

PENNSYLVANIA.

Dec. 5-8, 1916. Johnsonburg; H. C. Miller, judge; H. I. Roussey, sec.

Dec. 4 to 9, 1916. Wilkes Barre: Wilkes Barre Poultry and Agri. Assn.; J. Kriner, J. H. Minshall, judges; Fred Roll, sec., 550 Carey ave.

Dec. 12-15, 1916. Stroudsburg; Monroe County Poultry Assn.; H. C. Kandel, judge; E. M. Paxton, sec.

Dec. 18-22, 1916. Blairsville; Blairsville Poultry Assn.; J. E. Weaver, C. S. Smith, judges; G. M. Wilkinson, sec.

Dec. 18-22, 1916. Kane; Mountain City Poultry and Pet Stock Assn.; J. F. Nelson, judge; N. K. Whitehill, sec.

Dec. 26-30, 1916. Boyertown; The Boyertown Poultry and Pet Stock Assn.; E. M. Ulrich, Chas. Rosenow, judges; Harry R. Manderslice, sec.

Dec. 27-30, 1916. Sinking Spring; Lebanon Valley Poultry and Agri. Assn.; Geo. H. Northup, judge; J. S. Weidman, sec'y.

Jan. 15-20, 1917. Pittsburgh; Pittsburgh Poultry Assn.

Jan. 16-20, 1917. Jeannette; Westmoreland Poultry Assn.; L. A. Kearns, sec., 215 N. 3rd st.

Jan. 24-27, 1917. Oil City; Oil City Poultry Assn.; Chas. McClave, judge; Chas. R. Baker, sec.

Jan. 30-31 to Feb. 1-3, 1917. Butler; Butler Fanciers Club; A. F. Kummer, judge; David H. Rankin, sec., 112 Hazel ave.

Latham's Barred Plymouth Rocks

EXHIBITION FEMALE LINE EXCLUSIVELY

Strictly Choice Stock Only For Sale

In single birds, or in pairs or trios correctly mated to produce high-class stock. The selections and mating of the same will receive my personal care and attention, and will get the benefit of my 30 years' successful experience in breeding Barred Plymouth Rocks, which has placed the

Beauty and Utility Strain

ahead of all others as producers of *Exhibition Females* of the highest quality. All orders will be filled exclusively with birds of my own breeding. Better service can be given in orders booked *now* instead of waiting till just before the breeding season next spring. *Be wise*—order your breeding birds *now*.

C. H. LATHAM, Box 145, LANCASTER, MASS.



2nd Prize Pullet Bred Cockerel. Palace Show. 1915

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SINGLE COMB

500 choice show and breeding cockerels and as many pullets now for sale. Can furnish birds for any show room in the country or any breeding pen at prices to fit any man's means. Also some large husky cockerels for the utility man (weight 7½ to 10 lbs.) ready for service. Prompt attention given to all. Write your wants to HAROLD TOMPKINS, Box A, CONCORD, MASS.



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have been telling you
that you could



Increase Your Egg Yield 100%

by putting into operation the principles laid down in Geo. G. Newell's new book,

A Revolution in Egg Production

Many people have probably been skeptical, but from those who have taken advantage of this offer we are beginning to receive proof of the results.

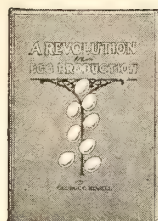
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postpaid, price \$1.00*

AMERICAN POULTRY JOURNAL PUBLISHING COMPANY

542 S. Dearborn Street, Chicago, Ill.



Mr. Newell.

Dear Sir—I am taking this opportunity to advise you of the success which I had by following the principles laid down in your very valuable book, "A Revolution in Egg Production."

Before giving actual figures, I wish to state that the effect of extending "the hen's business day" and "the asking the hen's judgment" in the matter of feeding, ideas that are original, is nothing short of marvelous. In the fall of 1915 I had 45 White Leghorn pullets which began to lay in September.

The yield was as follows:

155 eggs in September
382 eggs in October
539 eggs in November
112 eggs in the first week of December,

which meant a decrease of 18 as compared with the previous week. The second week in December the yield was only 68.

The birds were losing their vitality, their combs very pale and sickness set in, with the consequence that my prospective profits were vanishing.

As I always like to follow the man who knows, I have done the things explained in your book, with the following results:

In one week..... 96 eggs
The second week.....199 eggs
The third week.....227 eggs
The fourth week.....241 eggs

While there was a slight decrease after that, I have received an average of 32 eggs in January and February when the weather was very severe.

It might also be interesting to say that my hens never stopped laying in the late summer of 1916, the poorest week being 96 eggs, while the pullets of March, 1916, gave me 773 eggs for the month ending yesterday.

In conclusion I might ask like the cartoonist in the Chicago Tribune,

"Tell me, does it pay?"
Very truly yours,

VINCENT BALATY,
341 Raymond Ave., Congress Pk., Ill.

Congress Pk., 10-1-'16.

RHODE ISLAND.

Dec. 5-9, 1916. Providence; R. I. Poultry Assn.; Lambert, Shore, Allen, Roger, Andrews, judges; W. L. Brown, sec., 6 Exchange place.

Dec. 12-14, 1916. Bristol; Bristol County Poultry Assn.; Wm. H. Allen, M. A. Brayton, judges; James U. Clarkson, sec., 10 Mt. Hope ave.

Dec. 12-15, 1916. Wakefield; So. Kingstown and Narragansett Poultry Assn.; P. P. Ives, H. E. Bebbe, D. J. Lambert, judges; Geo. E. Harvey, sec., Box 143.

SOUTH DAKOTA.

Jan. 22-26, 1917. Mitchell; So. Dakota State Poultry Assn.; G. D. Holden, E. C. Branch, judges; R. C. Raines, sec., 207 E. 7th ave.

TEXAS.

Dec. 6-9, 1916. Victoria; Gulf Coast Poultry and Pet Stock Assn.; S. B. Johnston, judge; F. F. Aschbacher, sec.

Dec. 13-16, 1916. Sherman; The Grayson County Poultry Assn.; J. L. Mitchell, sec.

UTAH.

Jan. 22-27, 1917. Ogden; Weber County Poultry Assn.; W. W. Browning, judge; J. H. Shafer, sec'y.

VERMONT.

Dec. 6-8, 1916. Bellows Falls; Conn. Valley Poultry Assn.; F. G. Cook, P. P. Ives, C. H. Brundage, judges; G. S. Buxton, sec.

VIRGINIA.

Jan. 9-13, 1917. Norfolk; The Old Dominion Poultry Assn.; Chas. Nixon, J. Eberly, H. M. Kenner, judges; L. C. Page, sec., 123 Bank st.

WASHINGTON.

Dec. 10-16, 1916. Seattle; J. A. Tucker, W. M. Coats, judges; L. O. Lukon, sec'y.

Dec. 19-23, 1916. Olympia; W. M. Coats, judge; T. P. Horn, sec'y.

Dec. 27-30, 1916. Dayton; Columbia County Poultry Assn.; Oscar Nelson, judge; B. D. Leonard, sec.

Jan. 2-6, 1917. Bellingham; W. M. Coats, judge; Geo. Lindsay, sec'y.

Jan. 2-7, 1917. No. Yakima; Yakima Poultry Assn.; Harry H. Collier, judge; Harold Paddock, sec., R. 3.

WEST VIRGINIA.

Jan. 15-20, 1917. Charleston; Charleston Poultry Assn.; Newton Cosh, judge; Julian C. Byrd, sec., P. O. Box 898.

WISCONSIN.

Dec. 4-11, 1916. La Crosse; Western Wisconsin Poultry Assn.; Geo. Wells, G. W. Hackett, judges; J. E. Kircheis, sec.

Dec. 6-10, 1916. Oconomowoc; Oconomowoc Poultry and Pet Stock Assn.; W. E. Stanfield, judge; Geo. C. Johnson, sec.

Dec. 14-20, 1916. Beloit; The Beloit Poultry and Pet Stock Assn.; Geo. Wells, judge; Guy S. Lee, sec., 737 Grant st.

Dec. 18-21, 1916. Sussex; The Sussex Cooperation Poultry Breeders; Geo. W. Hackett, judge; Chas. Tempero, sec.

Dec. 18-22, 1916. Mukwonago; Mukwonago Poultry and Pet Stock Assn.; H. Hoffman, judge; R. J. Porter, sec.

Dec. 26-29, 1916. Manawa; Manawa Poultry Assn.; E. L. Hayes, judge; A. C. Lindsay, sec., Park ave.

Dec. 28-31, 1916. Fort Atkinson; Jefferson County Poultry Assn.; W. C. Pierce, judge; J. F. Mueller, sec.

Jan. 3-6, 1917. Superior; E. H. Hoffman, judge; John Tyson, sec., 2513 Wellington st.

Jan. 3-7, 1917. De Pere; The De Pere Poultry Assn.; James A. Daley, judge; Chas. Behrendt, sec., Green Bay, Wis.

Jan. 3-7, 1917. Sheboygan; Sheboygan Poultry and Pet Stock Assn.; Geo. Wells, judge; Geo. Spratt, sec.

Jan. 4-7, 1917. Fond du Lac; Fond du Lac Poultry and Pet Stock Assn.; D. E. Hale, judge; E. A. Sommerfeld, sec., 79 E. 9th st.

Jan. 8-13, 1917. Mineral Point; Mineral Point Poultry Assn.; Geo. H. Northrup, judge; Allen Tucker, sec.

Jan. 9-14, 1917. Oshkosh; Wis. State Poultry Assn.; Chas. V. Keeler, judge; L. C. Hanley, sec., 112 Main st.

Jan. 10-15, 1917. Appleton; Fox River Poultry and Pet Stock Assn.; Hackett and Wells, judges; Wm. F. Mueller, sec., 422 Franklin st.

Jan. 15-20, 1917. Janesville; Southern Wisconsin Poultry Assn.; J. L. Smith, sec'y., 421 Hayes Block, Janesville, Wis.

Jan. 16-19, 1917. Eau Claire; E. H. Hoffman, judge; A. H. Ahrens, sec., 317 Jeff. st.

Jan. 17-21, 1917. Green Bay; North Eastern Poultry and Pet Stock Assn.; Geo. B. Hackett, judge; M. J. Rahn, sec'y, 305 Main.

Jan. 22-27, 1917. Chippewa Falls; Chippewa Poultry Assn.; E. G. Roberts, judge; J. R. Costenian, sec'y.

Jan. 25-28, 1917. Plymouth; Eastern Wisconsin Poultry and Pet Stock Assn.; Geo. Wells, judge; W. E. Beiersdorf, sec'y.

Barred Plymouth Rocks



BUY your exhibition and breeding birds from a firm that has been in the business for 25 years. We are specialists in barred rocks, have bred them in large numbers for a quarter of a century and we can give you selection no small breeder possibly can. 34 premiums at the big Kentucky State Fair and the great armory show at Louisville last year, prove our unequalled quality.

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5 firsts, 4 seconds, 5 thirds, 1 fourth, 1 fifth; Cash Prize for Best Barred Plymouth Rocks.

Incubator Eggs, \$7.50 per Hundred

We have over 1500 birds this year, bred to perfection in color and barring, and when you buy this stock you get the best in America today. Our quality is wonderful, yet our prices are the lowest of any of the big breeders. Don't make the mistake of purchasing before you get our catalog and mating list. Send today for 40-page catalog.

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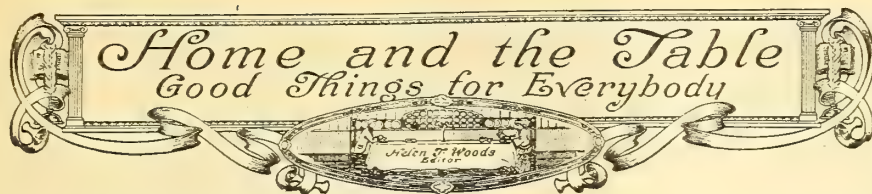
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MORISBITE MFG CO BLOOMFIELD, N.J.



They come again at Christmas
 As birds return in spring,
 The thoughts of friends we've known agone—
 Their precious message bring.
 They come again in glowing log,
 In every garland green,
 In holly wreath and mistletoe
 Their presence plainly seen.
 They come again and grip our hearts
 In loving close embrace,
 Tho stretch of land or ocean wide
 Should hide each friendly face.
 They come again and bring us youth
 Tho withered, bent and grey;
 They come again and warm our hearts
 Each joyful Christmas Day.
 They come again, the friends we've known,
 And lost perhaps awhile,
 And scatter cheer, and joy broadcast
 In every friendly smile.
 They come again! Oh Friends—
 The years have proved your worth,
 In fostering Good Will in our lives
 And hastening Peace on Earth.

* * *

IT IS said that at the root of every failure exists an incapacity to love, while success in an undertaking, or in life itself, must depend upon the interest or love of the undertaking put into it. We cannot expect a great result from the effort of one who dislikes his work or lacks confidence in its worth.

Thus it is that the millionaires must have loved wealth getting; the immortals, knowledge; the athletes, physical fitness. Outside of these classes, however, is a vast army of plain men and women who love work for work's sake and the happiness to be found in the simple, homely, every-day joys of family life. It is by association with these that we can best realize that the wealth getters are not the only successful people, and that having unlimited checking account will not insure one the ability to dispense cheer or to corner the happiness market. There is no class of people getting more out of life than those who make their own gardens, wash their own dishes and attend to their own fires and who stand ready to give assistance and succor where needed. For while they may feel they are not possessed of all the wealth they could use advantageously, yet are able to appreciate to the full those things which are not dispensed by the pound but which are beyond price. And to such as these, life is always a success.

No matter how many friends may have proved false or what calamities may have been theirs, they are able to muster courage and with faith in their undertaking, keep on. And the reward comes not so much in the attainment of that for which they set out, but by the things which come to them along the way. It may be but a glimpse of a mountain or stream from a swiftly moving train window, the fading glory of an autumn sunset, the close clasp of a friend's hand, the sweet note of a woodland bird, the

clear gaze of a little child, or an appreciative word when sorrow hovers near, coming unsought that makes the days of a life time pleasant to remember.

Too many of us look to the future for our enjoyments, and are thus too occupied to observe the pleasures that are everywhere spread out before us. It is almost pathetic to think of the parents who are waiting until their children are grown in order to begin to enjoy life, when right here and now with their children as comrades, they should find a

have found before his three-score years and ten have passed away this life to be a bleak and tiresome existence.

We have all heard of the prospector who after staking various claims and toiling thru long years in the hopes of striking a rich vein of ore, sold out to another only to find that he had failed to see the wealth of gold nuggets in front of his own doorway. The saddest part of the perpetually sad people is that they are unable to grasp the joy that is theirs for the taking, because they are so occupied trying to trap the joy that is not.

* * *

Each year we get about our Christmas shopping a little earlier in an endeavor to avoid the rush of the last few days. To be sure we are always rushed right up to the last weary moment when the stockings are filled



The way Barker's R. C. R. I. Reds are grown on Garnet Grange Poultry Yards, Westfield, Ind.

period of life's fullest enjoyment. The parent who does not appreciate his opportunity in this direction but who waits impatiently for the dawn of a millennium to be relieved of all responsibility and care and be fed constantly on new brands of excitement and pleasure will

and the tree decked in all its glory, and go to bed for a few hours' rest with a secret joy of having really accomplished much that we had planned. But everywhere for weeks ahead we are daily confronted with the placard: "Do your Christmas Shopping Early" and being



In cleaning earthenware
 crocks and bowls

Old Dutch

saves a lot of work



**\$5
 TO
 \$10
 A
 DAY**

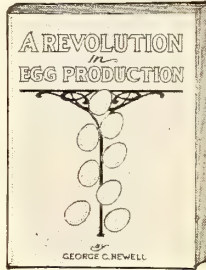


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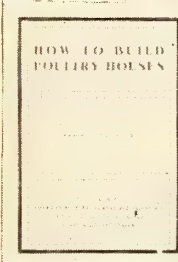
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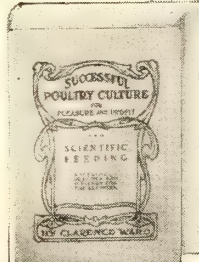
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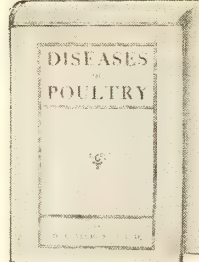
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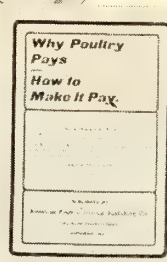
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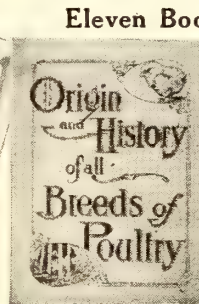


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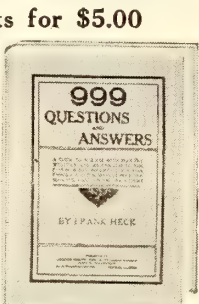
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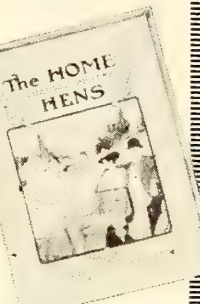
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**\$5
AND UP**

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147 West 24th St. RAW FURS, GINSENG, GOLDEN SEAL

New York

an orderly minded people, we bear this wise injunction in mind thruout the whole year and relieve ourselves of a great part of the unnecessary rush at the holiday season.

Every now and then some one bemoans the Christmas shopping idea and rises to inform the general public that it is an expensive, foolish habit and greatly overdone; that men are opposed to it, and that women only indulge in it to outdo their neighbors and friends.

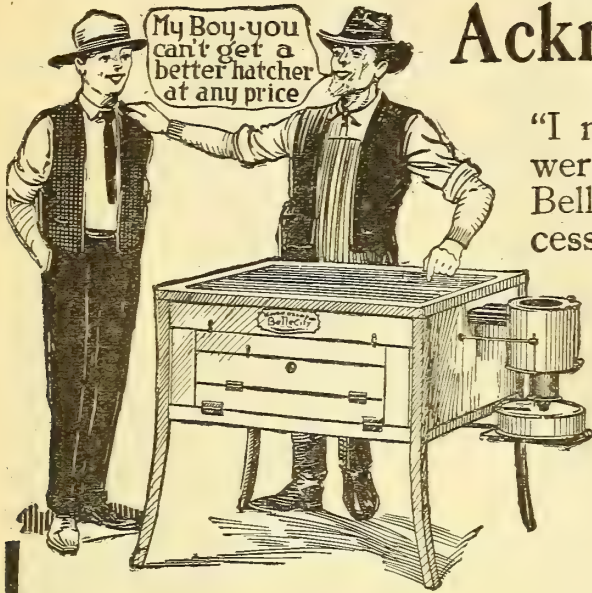
Of course it takes money to carry thru even a very modest Christmas shopping list. But for that matter it takes money to smoke even the poorest cigars, to drink beer or soda, to buy candy or go to the movies, and many other forms of amusement and it does seem that every one, children included, should be permitted a little fling once annually at the innocent and joy-giving amusement of Christmas shopping.

One of the pleasantest sights thruout the whole year is to watch the merry throng of Christmas shoppers that crowd our city streets at this season. Wherever we go the shops are well filled with eager crowds of shoppers—men, women and children, all bent on the same errand of happiness making. And so long as our Christmas shopping continues in this manner and is participated in by all members of the family, we may be very sure that this annual cultivation of the heart qualities in mankind is good for us all and will tend to make our manner of living during the rest of the year more nearly what it should be. For even the grouchy, self-centered folk who claim that Christmas shopping is a nuisance and a bore, forget themselves as the glad time approaches and are frequently seen hovering around back counters selecting all manner of gifts and carrying them home in concealed packages. With Christmas just around the corner and our minds filled with visions of things we would like to give those we love, it is a real joy to enter into the spirit of the season by hurrying off with the good natured throng on a Christmas shopping trip.

Of course, Christmas means little to those who do not find it necessary to deny themselves in order to indulge in a little Christmas once a year, but it means genuine enjoyment to most of us who have to figure out how we may best allow ourselves to dabble in the luxury of giving. To those who are unable to allow themselves the pleasure of material giving, there are human values of deeper worth, by the exercise of which we may transform a gloomy environment into one of great cheer. And at Christmas, if at no other season, we find a more general broadcasting of kindness, friendliness, love for our fellows, and faithfulness to service, among all classes of people. The spirit of good will becomes contagious and even the men in the trenches forget they are in opposing armies and find themselves telling stories of the peace and love of home. For it is not nature for men to hate and destroy one another and when they find the opportunity to relax into their natural selves, love becomes paramount for love is life itself. When it ceases we become but a dead, decaying organism loath to leave its shell.

Ability to appreciate what is worth while, and what is not, in human values goes a long way toward making Christ-

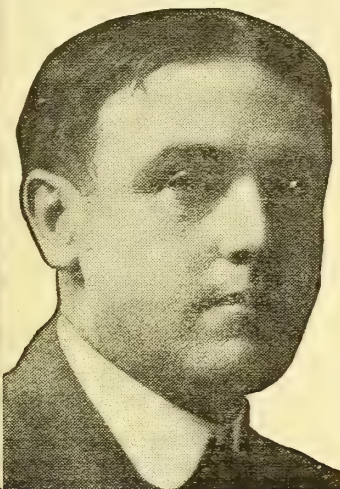
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The Incubator with the Paragon Board Construction, that has led the field for over ten years. The choice of America's most successful chicken raisers—the kind used by Uncle Sam and leading Agricultural Colleges. The Incubator that will put you in the Championship class from the start. Over **524,000 now in use.** The book fully describes and illustrates in actual colors, my incubator and brooder; tells all about



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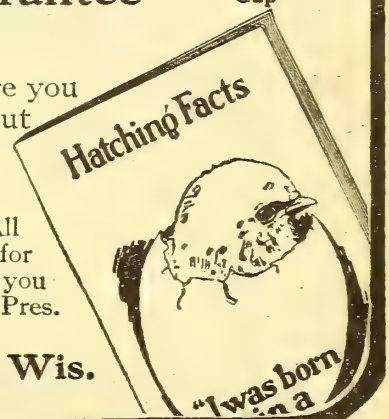
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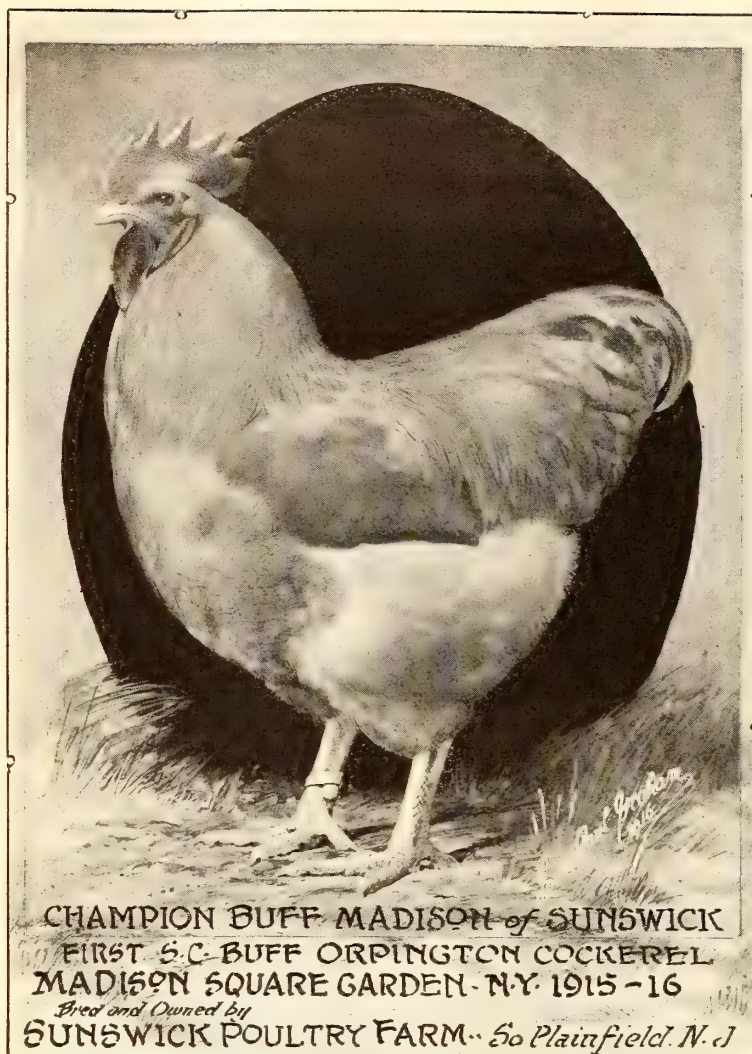
You will want to know just what this means to you before you buy a hatching outfit, and with it comes full details about

My \$1000 Gold Offers

The chance of a life time to make **extra money** with a hatching outfit. All users of my Belle City make big money year after year. What I have done for others, I can easily do for you. Write me for this **big free book**—it tells you what you need to know—a postal will do, but write today. Jim Rohan, Pres.

Belle City Incubator Co., Box 27, Racine, Wis.





Imperial Buff Wyandottes New York and Chicago First Prize Winners. COCKERELS—farm reared—PULLETS. Winners for any show. High class breeders. - **W. F. SCHULTZ, Box 97, Cuyahoga Falls, Ohio**

GOLDEN PENCILED HAMBURG

The Fancier's Fowl. Won the Principal, Regular and Special Prizes at Madison Square, Boston, Palace. A few birds for sale. No eggs.
JOHN A. GAMEWELL :: **Box 2** :: **LITTLE SILVER, N. J.**

mas a season of good cheer. Exercise a little thoughtfulness toward one that is lonely, a smile and a word of cheer to a discouraged friend, an appreciative word to a fellow worker, forgetting how alone you are yourself, how others have wronged you, and how your best efforts have not apparently been rewarded according to their true value—and you will be able, perhaps, as in no other way to place a true valuation upon the worth of this season of Peace on Earth, Good Will toward Men.

* * *

SWEETS FOR THE HOLIDAY SEASON

By E. C.

BROWNIES

One cup pecan or other nut meat; 1/3 cup of sugar; 1/3 cup butter; 1/3 cup molasses in which a pinch of soda has been dissolved; 1 egg; 1 scant cup flour; 1/2 teaspoon baking powder. Mix the sugar and egg, and add melted butter, molasses, a little nutmeg, and the sifted flour and baking powder. Add the nutmeats after flouring well, and bake in small fancy shapes.

* * *

POP CORN CRISPS

One cup brown sugar; 1 cup molasses; 2 or 3 quarts of freshly popped corn. Boil the sugar and molasses until it will harden when dropped into cold water. Remove from the stove and stir in as much popped corn as it will hold. Spread on to greased tins and cut into squares.

* * *

CHOCOLATE POPCORN

One cup sugar; 1 tablespoon butter; 1/2 cup milk; 1 ounce grated chocolate. Boil until it hardens when dropped into cold water, flavor with vanilla and pour over freshly popped corn. Form into balls or pour into a greased pan and cut into squares.

* * *

PEANUT BRITTLE

One cup granulated sugar; 1 cup broken nut meats (any kind of nut meats may be used). Put the sugar in a porcelain kettle and stir constantly. When entirely melted, add a pinch of soda. Allow to boil for a few moments, add the nuts, and pour onto a marble slab. Cut into squares as it cools.

* * *

CAUTION: Any Bone Cutter claiming to be MANN'S without F. W. MANN CO. cast on its surface, is an imitation. The genuine MANN'S is made only in Milford.



Make Hens Lay

WE publish a book which gives the secret that all fowl raisers are most interested in—the secret of making hens lay when eggs are high as well as when they're cheap. The quick and easy way. Goes into the why of the subject. Makes you master of the poultry and egg business. Opens up a new line of thought on the best feed for poultry—the ideal egg-producing food, viz., ground raw bones with the meat and gristle that adheres to them.

MANN'S LATEST MODEL BONE CUTTER

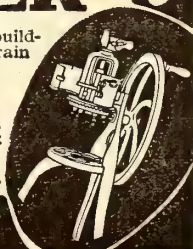
prepares raw, green bone and gristle into a fine mash, four times richer in protein (the egg-making, body-building element) than corn. It supplies the animal food that chickens must have. Easily digested. Saves grain feed. Fowls relish it. Makes them grow, keeps them well, makes hens lay.

We Sell This Machine On Ten Days' Trial

No money down. Try it and note the improvement in the egg yield. If you like it, then buy it. If not, send it back at our expense. Send today for the book and read it. It is free. It will make you want the machine and the machine will add greatly to your profits.

F. W. MANN COMPANY

Box 56, MILFORD, MASS.



A FREE BOOK FOR YOU ON MAKING HENS LAY



4500 PAGES

OF PRACTICAL POULTRY AND PROFITABLE KNOWLEDGE



The Dollar Which You Mail in Acceptance of this Offer Will Bring

The Biggest Returns of Any Dollar Investment You Can Make.

Announcement

\$1.00 will now buy a three years' subscription to American Poultry Journal. No subscriptions will be entered for a period of less than three years (except six months trial), as the high quality of the periodical which we are selling, at the price asked for publications of inferior value, does not warrant entering subscriptions for a shorter period.

As you are interested in poultry, you want the best information which you can get for your money, and without a particle of doubt such information is found monthly in the American Poultry Journal, which at the rate of three years (36 issues) for \$1.00 is the best buy any poultryman can make.

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The above reproduction of a photograph illustrates three bound volumes of what readers of American Poultry Journal obtained during the past three years. A year's volume contains approximately 1,500 pages. Three volumes contain 4,500 or more pages, size 9x12.

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Get "The Golden Egg"

and Your Hens Will Lay an Egg a Day

For only one cent you can get this wonderful poultry money-maker. Your hens will lay more eggs—larger eggs. Lazy hens will start laying. You can get fertile eggs. You can get eggs for early setting. Get plenty of eggs when they sell at highest prices.

Invest a Cent and Double Your Egg Yield

Get as many eggs in winter as in summer. It's all a question of feed. The Humphrey way makes chickens pay. You can cut your feed bill in half and at the same time get twice as many eggs. Let me tell you how. You can force your hens to lay as many eggs this winter as in the summer time by using a Humphrey Green Bone Cutter. Write for free copy of "The Golden Egg."

Tell me how many hens you have and get some money-making facts from me by return mail. Send postal today.

HUMPHREY
White Street Factory
Joliet, Illinois



Big Winter Eggs Out of Clover. How? Ask Me.

EGGS A FOOD PRODUCT TO BE SOLD BY WEIGHT.

And All International Egg Laying Contests Should Award the Prizes to the Hens Laying the Most Pounds of Eggs Instead of the Largest Number of Eggs.—An M. C. Wilson Contest Article.

By DEAN HARR, Wichita, Kansas.

"HOW much are your eggs per pound?" This is the keynote to success in "egg farming." The sooner the "egg farmer" can induce society to accept his product on this basis, or can persuade the main factors that control the marketing of eggs to establish this custom or legislate along these lines, just that much sooner will his profits show an amazing increase.

I am not a chemist, nor am I posted on egg statistics that would materially assist me in bringing out the points I desire. I am, however, a dealer in food products and my close association with same, places me in position to know that within a short period of time radical changes have occurred in the merchandising of the products. I want to sound the warning here that the fellow who is slow in marketing his eggs by weight will be wondering some of these bright mornings in the near future why he is not mentioned as one of the "live poultrymen."

The condition we desire to bring about is to market eggs by weight. The first question I will ask my reader is, "Why is an egg laying contest?" The reasons are too numerous to mention; among them are: Publicity for the breed and the man who owns them; the creating of interest in the production of eggs; and, the gathering of statistics on the relative value of the different foods to egg production.

You will have to admit that, while fancy poultry occupies a prominent position in the poultry industry, it is in reality a negligible quantity when you consider the amount of both money spent for, and eggs used commercially for food. Food value of eggs is the paramount issue. Fancy poultry is a fine sight for the eyes and very essential to the industry, but if the development of this fancy poultry did not finally develop into the betterment of eggs and egg production for food, there would soon be an overabundance of fancy poultry with no outlet for the sale of same. Therefore, coming to the conclusion that the real purpose of the poultry industry is to supply the masses with food, why not sell our eggs for their real worth as food, realizing the profit on every ounce in food value we produce and quit accepting for our large nutritious eggs the same money our neighbor receives for smaller and usually inferior eggs?

I wish also to establish the fact that it is desirable to market eggs by the pound rather than by the dozen. This fact being established with the foregoing fact that the total production of eggs for food really supplants, by many times, the value of fancy poultry eggs, I can then make clear the reason why our egg laying contests should award prizes for pounds instead of numbers.

You will agree that eggs vary in size.

New KEROSENE LIGHT BEATS ELECTRIC OR GASOLINE

10 Days FREE—Send No Money

We don't ask you to pay us a cent until you have used this wonderful modern white light in your own home ten days, then you may return it at our expense if not perfectly satisfied. You can't possibly lose a cent. We want to prove to you that it makes an ordinary oil lamp look like a candle; beats electric, gasoline or acetylene. Lights and is put out like old oil lamp. Tests by U. S. Government and 34 leading Universities show that it

Burns 50 Hours on One Gallon

common kerosene (coal oil), no odor, smoke or noise, simple, clean, won't explode. Three million people already enjoying this powerful, white, steady light, nearest to sunlight. Won 2 Gold Medals at Panama Exposition. Greatest invention of the age. Guaranteed.

\$1000 Reward will be given to the person who shows us an oil lamp equal to the new Aladdin in every way (details of offer given in our circular). We want one user in each locality to whom we can refer customers. To that person we have a special introductory offer to make, under which one lamp is given free. Write quick for our 10-Day FREE Absolutely Free Trial Proposition and learn how to get one free. FREE MANTLE LAMP COMPANY, 194 Aladdin Building, CHICAGO, ILL.

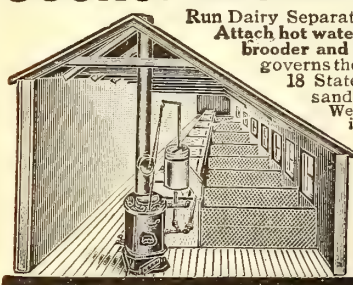
Largest Kerosene (Coal Oil) Mantle Lamp House in the World



Men With Rigs Make \$100 to \$300 Per Mo.

Our trial delivery plan makes it easy. No previous experience necessary. Practically every farm home and small town home will buy after trying. One farmer who had never sold anything in his life before wrote: "I sold 51 the first seven days." Christensen, Wis., says: "I have never seen an article that sells so easily." Norring, Iowa, says: "92 per cent of homes visited bought." Phillips, Ohio, says: "Every customer becomes a friend and booster." Kemering, Minn., says: "No flowery talk necessary. Sell it itself." Thousands who are coming money endorse the Aladdin just as strongly. NO MONEY REQUIRED. We furnish stock to reliable men to get started. Ask for our distributor's plan, and learn how to secure an appointment and make big money in unoccupied territory. State occupation, age, whether you have rig or auto; whether can work spare time or steady; when can start; townships most convenient for you to work.

Ripley's No. 20A Combination Cooker and Heater



will cook 1 to 3 barrels feed at a time, or heat water in tanks 300 ft. from cooker.

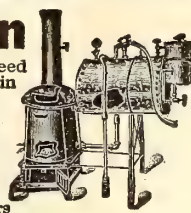
Run Dairy Separators, Sterilize Bottles, Cans, etc. Attach hot water pipes to fire box and it will heat brooder and hog houses. Automatic regulator governs the heat. Used and recommended by 18 State Experiment Stations and thousands of Noted Breeders and Farmers.

We manufacture the Largest Line of Cookers in the U. S. Prices \$4.50 to \$70. Also White-washers, Sprayers, Fireless Boilers, Egg and Day Old Chick Shipping Boxes, Cans, Cast Iron Heaters and Metal Hovers for heating Brooders, Greenhouses, etc. Write for Catalogue, showing Letters from hundreds of pleased customers. A Ripley Cooker will save you 35c on every \$1.00 worth of feed you feed your stock and poultry.

RIPLEY MFG. CO.

Box 5

Grafton, Ill., U. S. A.



The poster is a vertical rectangular frame with ornate, Art Deco-style borders. It features several circular and rectangular vignettes containing illustrations of chickens. The central text identifies the breeder as Frank E. Hering, specializing in "Frost White" Leghorns and "Green Sheen" Campines. Surrounding this central text are seven award-winning birds, each with a label indicating the event and date. The bottom of the poster features a landscape illustration with trees and a body of water, and a final label for a pullet and pen award.

FIRST COCK
CHICAGO, COLISEUM
Dec. — 1915

FIRST COCK
INTER-STATE FAIR
Sept. 1916

FIRST PEN
CHICAGO, COLISEUM
Dec. 1915

FRANK E. HERING
Breeder of
"FROST WHITE"
LECHORNS
and
"GREEN SHEEN"
CAMPINES

FIRST COCKEREL
CHICAGO, COLISEUM

FIRST PEN
CHICAGO, COLISEUM, Dec. 1915

FIRST PULLET | **FIRST PEN**
CHICAGO COLISEUM | ILLINOIS STATE FAIR 1915



Partial view of long breeding house erected recently by A. A. Carver, Seville, O. This house has accommodations for 16 breeding pens, each section 8x16 ft. There has not been a dollar wasted in the construction of this house and it can well be termed one of the most practical and complete poultry houses ever built. Mr. Carver has named it "the 100 per cent efficiency house." The construction is such that it is rat-proof and moisture-proof; cool in summer and warm in winter.

You will agree that the shell is usually full of the food portion, or the larger egg has more in it than does the smaller. Let us for example take the net weight



Indoor Closet

More Comfortable, Healthful, Convenient

Eliminates the out-door privy, open vault and cess-pool, which are breeding places for germs. Have a warm, sanitary, odorless toilet right in your house. No going out in cold weather. A boon to invalids. Endorsed by State Boards of Health.

ABSOLUTELY ODORLESS

Put It Anywhere In The House

The germs are killed by a chemical process in water in the container, which you empty once a month. **Absolutely no odor.** No more trouble to empty than ashes. Closet absolutely guaranteed. Write for full description and price.

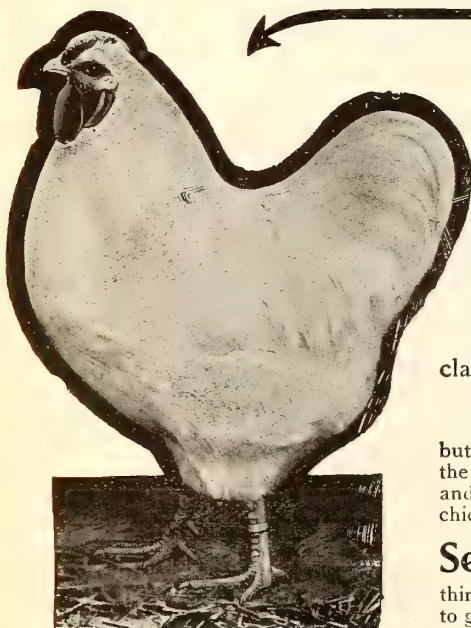
ROWE SANITARY MFG CO. 1203 A ROWE BLDG., DETROIT, MICH.

Ask about the Ro-San Washstand—Hot and Cold Running Water Without Plumbing

of the food in the standard egg to be an ounce. If your eggs are sold at a certain price per pound, it naturally places a value on this ounce which is a part of this pound. Why then should your neighbor come along with three-fourths of an ounce, namely a smaller egg, and get the same money as you do for your ounce? Also is it right for your other neighbor to sell an ounce and a half, a larger egg, for the same money? An ounce of protein has value as food. Surely then the three-fourths ounce will not suffice for the ounce even tho it is put up in the same style package. You pay more for an ounce of drug, than you do for less than an ounce. You pay more for a pound of potatoes than you do for three-fourths. And right here, dear reader, do not say potatoes are not sold by the pound because you will certainly be mistaken. The same is true of apples, cabbage, bread, etc. Oh, you do buy bread by

the loaf, don't you? All right, let's go down to the bake shop and watch the baker "weigh" the dough that makes this loaf. Watch wheat go up and the loaf "cut" down. Is this not by the pound? Do the railroads haul by the bushel, package, or pound? They want the benefit of every "ounce" they handle, so why not let us get the benefit of every ounce we produce?

Now, back to my title. I have proved that the greatest value of eggs is for food. I have proved that this food should be sold by weight. Thus I have proved that the utility arm of the poultry industry is of much more magnitude than is the fancy, consequently let's follow along the lines that will benefit the majority and conduct our egg laying contests to give publicity to, create interest in, and gather statistics for the utility arm, and thereby indirectly be as beneficial to the fancy division, as it is the foundation of all poultry.



FISHEL'S White Wyandottes

have won the coveted honors at Chicago, Indianapolis, St. Louis, San Antonio, Cincinnati, Nashville, Columbus, Springfield, New Orleans, Atlanta, Cleveland, Des Moines, South Bend, World's Fairs at St. Louis and San Francisco, as well as many more of the largest shows against all competition and this wonderful unequalled record proves our claim to



The World's Best

but do not lose sight of the fact that they are bred for meat, eggs and quick growth with the same care and attention as for show room purpose; their blood lines are the strongest and that places them in the Sterling Mark Class. Our customers report eight weeks old chicks weighing two and one half pounds each. Very interesting for the broiler plant man!

Send For Our Literature describing and pricing these wonderful fowls. Never before in our thirty-five years of poultry breeding have we been in a position to give such quality. We have the largest flock and the grandest in quality that we ever had and therefore are in a position to give the best value. Remember every sale must make a satisfied customer. That is our goal.



J. C. FISHEL & SON
Box J Hope, Indiana

PRACTICAL ADVICE ON POULTRY BREEDING.

An Address Before the Fourth Annual Poultry Convention, Massachusetts Agricultural College, Amherst, Mass., July, 1916.

By HARRY M. LAMON, Senior Animal Husbandman in Poultry Investigations, United States Department of Agriculture.

THAT the breeding of poultry is more of an art than a science is well understood by the experienced poultrymen. The common principles of breeding can, perhaps, not be termed strictly laws, but are at least expressions of more or less common occurrence in the experience of breeders, and one should familiarize himself with the phenomena of inheritance or heredity, such as reversion or atavism, which is to revert back to grandparents or further, variation, meaning some characters good and some poor; prepotency, many of the offspring having same characters, sports radically different from parents.

In order to become thoroughly proficient as a successful breeder of Standardbred poultry, one must become thoroughly acquainted with the Standard description of the particular breed in which he is interested, in fact he must become a judge of his breed if he wishes to be a successful exhibitor. The breeding of high quality, pure-bred poultry requires much thought, a great deal of hard work, and involves countless details which must not be neglected. There was a time not so long ago when many people were of the opinion that any one could make a success of the poultry business, but in a very short time it became evident to numbers of these same people that they could not even keep their flocks in a healthy condition, let alone becoming successful breeders.

Success in poultry breeding, as in any other branch of animal husbandry, rarely comes in a short time or with little effort. It would be most interesting to know the experiences of such men as A. C. Hawkins, Lester Tompkins, Maurice Delano, Haldie Nicholson, J. W. Andrews, C. H. Latham, Bradley Bros., and many other great breeders of poultry here in Massachusetts, aside from prominent breeders in other states. It would be interesting, I say, to know how many years it has taken these men to reach their present high positions as poultry breeders, how many obstacles met with and how many difficulties overcome, and how much money they have invested in the business during that time. I think I am safe in saying that all of these men have been breeders 15 years, and some of them much longer, which is sufficient evidence of the courage, determination and grit required to become successful as a breeder of pure-bred poultry.

The value of breeding from selected, high quality fowls is of great importance to the poultry interests of the country, as it is from such stock that our advancement and improvement in poultry is to come, whether in egg production, meat production or show points, as I believe there is high quality to be found in each of the above classes.

We hear a great deal at present of the utility-poultryman. He has come rapidly to the front of late. Why? Because he is a keeper of records. The

Pabst Stock Farm

HOME OF THE ORIGINAL STRAIN

Fiske's S. C. White Leghorns

Consistent winners for the past ten years at New York, Chicago, Boston, Buffalo, etc. and

Single Comb Rhode Island Reds

Winnings so far this season.

Watch our progress!

Illinois State Fair: First cockerel on one entry Single Comb White Leghorns.

Wisconsin State Fair: Single Comb White Leghorns, first, second cock; second, third hen; first, third, fourth, fifth cockerel; first, second, third, fourth pullet; first pen. S. C. Rhode Island Reds, first, second, fourth cock; second, third, fourth hen; fourth, fifth cockerel; first pen.

We can sell you birds guaranteed to win at any show in the world at prices surprisingly low. A fine lot of S. C. Rhode Island Red cockerels and S. C. White Leghorn cockerels at \$5.00 each, all bred from trap-nested stock.

Select Holstein-Friesian Cattle. Young Bulls from A R O Daughters from \$100 up.



First Milwaukee Cock Bird, 1916.

PABST STOCK FARM, Harlo J. Fiske, Mgr., Box A., OCONOMOWOC, WIS

Orchard Farm Reds

Some fine SHOW BIRDS, ready to win good shows, for sale at reasonable prices.

If you want to win, write at once for particulars.

ORCHARD FARM - - - NOROTON HEIGHTS, CONN.

Struble Buff Orpington Farms ESTABLISHED 1900

Won at Chicago 1915 Show. Champion Pen of Entire Show on pen of OLD BIRDS with 128 pens all varieties and ages competing; also 2nd Cock, 3d Hen; 1st, 2nd, 3d Ck.; 1st and 2nd Pullet; 1st Pen and 1st Display. 12 birds shown and all under the ribbons in what was conceded to be the best class of Buffs ever shown in Chicago. And while our Judging engagements give us very little time to show our birds, we help the other fellows to win the Blue in the largest shows each season, and can help YOU. The fact that we will ship our birds C. O. D. is guarantee of Quality. Nuff Said.

STRUBLE BUFF ORPINGTON FARMS, Lock Box A, BASCOM, OHIO

Z. D. Struble, Mgr. and licensed Judge all varieties since 1907



LEE'S

Columbian Wyandottes

WINNERS AT THE BIG SHOWS

If you want something fancy, I can supply you at reasonable prices.

LEO A. LEE

4840 Belle Plaine Ave.

CHICAGO, ILL.

World's Best S. C. Blk. Minorcas

Canadian National Exhibition, Toronto, and Western Fair, London, are Canada's two greatest fall shows. I won at Toronto September, 1916, 3rd Cock, 1-2-3-4 Hen, 1-2-3-4 Cockerel, 1-2-3-4 Pullet, 1st Pen. At London every 1st, 2nd and 3rd. My cock birds were in full moult. All my winners for sale at reasonable prices. Please send for sale list.

T. A. FAULDS

President of Canadian Black Minorca Club

LONDON, ONTARIO, CANADA

Columbian Wyandottes

I have a limited number of utility hens and pullets which I will sell at \$1.50 each while they last; are bred from extra good winter laying strain. My stock always win their share at the shows. All sold out on Cocks and Cockerels. Order direct from this ad.

ARTHUR MERRELL, SOLON MILLS, ILL.

BARRED PLYMOUTH ROCKS

Young birds for sale. Yearling cock birds and yearling hens. Write us.

W. H. GODDARD & SONS

Orchard Place

RIVERSIDE, MUNCIE, IND.

DAVIS' SINGLE COMB REDS

have proven their quality by winning 1st Pullet, 5th Cockerel and 5th Cock at the last Chicago Show. Exhibition birds and breeding birds that will start you right at half their value.

M. C. DAVIS, HAYWOOD ROAD, WOODSTOCK, ILL.



success of his business is his livelihood. He must know in dollars and cents just where he stands, consequently he becomes a student of his business and studies it in all its details. He has been the greatest user of the trap nest, for he knows by its use he can learn exactly the number of eggs the different individuals in his flock are producing. The trap nest has been and is of great value to the poultryman of this country. It is valuable:

- (1) To tame the birds, thereby tending toward increasing the egg production.
- (2) To furnish definite knowledge concerning traits and habits of individuals.
- (3) To furnish the only satisfactory basis for utility or other breeding.
- (4) To eliminate the non-productive hen.
- (5) To add mechanical precision to judgment and experience in developing and maintaining the utility of a flock.

It is only by breeding from selected stock that any great reputation is made in either the fancy or utility branch of the poultry business. Once it becomes known that a man is a careful breeder of high egg-producing stock, he can practically name his own price, as the demand for such is far in excess of the supply. This also holds good with the fancy poultryman.

In making a mating of Standardbred for utility poultry, and assuming you know very little or nothing of the breeding or ancestry of the stock, the very first thing you must do is to get an ideal thoroly fixed in your mind's eye to breed to. With an ideal it is difficult enough to produce the desired specimens and without which you will surely not advance. The most important requirement that you must impose upon your breeding stock is that it be constitutionally sound, healthy and vigorous. Once you have selected the male to head the pen, select the females that are strong in the sections where the male bird is weak, always being on the lookout for disqualifications and other serious imperfections. I have in mind a few defects that

A Scranton Single Comb Red Will Do It!

Win that show for you—improve the color, improve the type of your flock—put the size and vigor there—breed prize winners for you—make your flock a money maker.

Ours is Ben Scranton's own flock—perfected by him thru 12 years of careful breeding. The birds we offer are the very cream of all he has bred and raised. No flock is so strong but that this Scranton blood will help it. We can sell you a cock, hen, cockerel, pullet or pen, rich in every good quality, ready to win or breed winners and priced right. Write us today, before the opportunity passes for this season. Make up your mind to get the best now.

RAU & FRY, Grand Hotel

Hawthorne Poultry Farm,

INDIANAPOLIS, INDIANA



Young's Strain S. C. White Leghorns

I HAVE NO OTHER BREEDS

Acknowledged thruout the world as being the standard of all the Leghorns of all America, and the leaders of heavy layers. Eggs at half price remainder of breeding season. I have hundreds of yearling hens for sale. Why not come to headquarters and get the best. Mating list free.

D. W. YOUNG

::

Box E12

::

MONROE, N. Y.

I consider have done, and are doing, a great deal of harm to the breeds most affected, and specimens having them should not be considered for a place in the breeding pen, no matter how good they may be in other respects, as these imperfections are transmitted to many of the offspring, namely: Twisted wings in Barred Plymouth Rocks, slipped wings in White Plymouth Rocks, and white in the face of White Leghorns, young stock. Once the blood of birds having these defects gets into your flock, it is most difficult to remove. After raising the young stock from your mating, studying both good and poor specimens, you will begin to become familiar with what I term the breeding tendencies of your stock, and once you know these breeding tendencies you are in a position to make a success in breeding poultry commensurate with your ability. This information cannot be purchased, but is only gained by study and years of experience in breeding. That is why, even tho we purchased the best stock a breeder has to sell, we are rarely able to produce its equal until we have bred and handled it for several generations, and during this time you should remember that the very best specimens produce good and poor stock, but poor stock rarely, if ever, produced high class stock.

I associate good management so closely with successful mating and breeding that without it, no matter how high quality your mating may be, the offspring are bound to be of inferior quality. What I mean by good management is good feeding and good care. To produce the best of specimens, they must be kept growing right from the time they are hatched until they reach maturity. They should be fed four or five times a day up to the time they are four months old. I used to think that feeding four or five times a day up to three months of age was often enough, but I have learned that many birds will make very rapid growth up to four months if fed liberally. They must not be allowed to crowd in the brood or growing coops. The different sizes must be kept together or the smaller chicks will not make a good rate of growth. Separate the sexes as soon as the cockerels begin to bother the pullets. As soon as the chicks reach broiler age, begin to cull those which show disqualifications and other imperfections, and keep it up until the flock is of the desired quality. Show me the man who culls courageously and intelligently and I will show you almost invariably a successful breeder of poultry. Many a beautiful flock of young stock has been ruined in the fall by allowing the chicks to crowd in the brood coops at night, where they become over-heated, and when let out in the cool air in the morning they catch cold, which often takes on the form of distemper and goes thru the whole flock, usually checking their growth. I often think birds so affected rarely, if ever, regain their normal health. It also often affects the growth and color of the feathers to the extent of producing white in the flights and other sections to red, buff, black and other colored birds.

In conclusion, I wish to say:

First—In your breeding work keep a detailed description of your matings, so as to be able to look back and know the quality of the ancestry of your stock. In this way only are you sure of your ground in breeding.

Second—Trap nest every hen, and toe punch, band or mark in some way every

Rid Your Poultry of Pesky Lice!!



A Sure Shot Zenoleum Lice Killer gets quick action on lice, mites and disease germs of poultry. Safe to use and *never fails*.

ZENOLEUM Lice Powder

The Powder That Penetrates to the Skin

It has such "fluffiness" that it easily penetrates through the feathers to the skin. Used and endorsed by leading poultry men.

Get a Big 25c Package! Price at any dealers 25c or by mail postpaid 35c. Does the work or money back—no talk, no argument, just money back.

Book "HOME TREATMENT FOR POULTRY DISEASES"—FREE
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Andrews' Wh. Wyandottes

WON AT BOSTON, 1916

FIRST COCK, HEN, COCKEREL AND PEN;
Second Hen and Second and Third Pullets;
5th Cock and 4th Cockerel. Best Display.

If you want to start right, buy your show birds and breeders from a line that have been consistent winners at the Great Boston Show for the past 17 years. They have been bred right. Always winners, great breeders, heavy layers. Having SIZE and STAMINA. Write for prices on show birds or breeders.

J. W. ANDREWS, Box A, Dighton, Mass.

Longfield Rose Comb Reds The Greatest Chicago Winners

We have more good birds for sale than we ever had in any two previous seasons combined and can suit you in good breeding or the finest exhibition stock. ON APPROVAL ALWAYS.

At the Chicago Coliseum Show

which is probably the strongest Red show caged—bar none—we have won, in the past 3 seasons, more than 4 times as many First Premiums as any competitor, as well as Best Display the past 3 seasons. A RECORD. Longfield Reds not only win one year, but come back and win year after year in the strongest competition. BLOOD WILL TELL. Think this over before introducing your new blood.

Longfield Poultry Farm

Box 321

Bluffton, Ind.

Regal Reds

The Reds with the dark brilliant red color and true type. Farm raised. When you get Regals you get quality that is hard to beat. Why not get the best? STOCK SHIPPED ON APPROVAL.

GEORGE H. SHOENHARD,

R. 6, Box 17 FREEPORT, ILL.

Originator of the Regal Strain of S. C. Reds

IDEAL PORTABLE HOVER

The perfect chick mother that sits on the floor with no bridges for chicks to climb; it can be used in an out or indoor brooder, colony house, hen house or any room suitable for chicks. The new duplex or double drum heater produces 15% more heat than any single drum heater. The hydro safety lamp is especially and scientifically constructed for the ideal hover. The ideal is 24 inches diameter, all metal, with double curtains, and will brood 100 chicks. Send for free booklet.

NEW CARLISLE MFG. CO.,

Dept. 5

NEW CARLISLE, OHIO

Harbin's S. C. White Orpingtons Are Prize Winners

AND PRIZE LAYERS

Winner Best Pen S. C. White Orpingtons, Trophy and Money Prize at the National Egg Laying Contest, Best Bred-to-Lay-Show Quality foundation stock for sale—Cocks, Cockerels, Pullets and Hens, and prices are most reasonable. Selected Hatching Eggs from Best Prize Winners, December, \$4 per sitting. Please state your requirements. I can please you and improve your flock.

EDMOND J. HARBIN,

Lock Box A-1295

RIVERSIDE, ILLS.

Three Oaks

Columbian Wyandottes—Red Sussex

(Gold Medal Winners)

(Imported Stock)

Breeding Cockerels a specialty. Write wants. RALPH WOODWARD, Box 200, Grafton, Mass.

SILVER CAMPINES

A few choice show birds, in both old and young stock for sale at reasonable prices.

GENSEMER BROS., 151 Main Street, CRESTON, OHIO

QUEEN (263) STRAIN S. C. WHITE LEGHORNS

are trap-nested and BRED-TO-LAY. March and April cockerels and pullets for sale at reduced prices. Chicks and eggs in season. Write for prices and guarantee.

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RED CROSS FARM POWDER



**The Original and Largest Selling
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Why use expensive high speed dynamites when this slower, safer farm powder will save you from \$3 to \$5 per hundred pounds and for most farm uses do better work?

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We want live dealers in towns still open. Get the orders resulting from our *continuous heavy advertising*. You need not carry nor handle stock. State jobber's name or bank reference when writing.

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RAISE the best broilers and roasters in shortest possible time at least expense, for your table or the market. It is a simple matter to put one-third increased weight on birds in twelve days with the ordinary feed by mixing

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chicken, so that you will have a complete record of their breeding and know to a certainty just what your matings are producing.

Third—Breed from two and three-year-old hens, as they lay larger eggs than the pullets.

Fourth—March and April are the best months for hatching. Early hatching has a favorable influence on the size of the stock, and it must be remembered that no eggs will be received from pullets until they are matured.

Fifth—It takes healthy fowls, good incubation, brooding, feeding and range to produce successive generations of high class stock. Give the breeding stock free range, if possible.

Sixth—Birds on range lay a larger percentage of fertile eggs than those that are yarded.

Seventh—In selecting breeding stock, keep in mind whether it is eggs, meat or exhibition birds that are needed, and be consistent in your selections.

Eighth—Establish your own blood lines and know the ancestry of your breeding stock.

Ninth—Have an ideal to breed to, a fixed plan of procedure and adhere to it.

Tenth—Feed four or five times a day up to 4 months of age; separate the cockerels from the pullets when the young males begin to get bothersome, and keep the different sizes together. All these have an important bearing on the health, growth and vitality of the young stock, without which the best of breeding plans go for naught.

HAPPENINGS of INTEREST in the POULTRY WORLD



O. R. Remington Arrested.

IN our November issue, on page 1216, I appeared the advertisement of O. R. Remington, Box 1527, Washington, D. C. On November 13 we received a communication from F. E. Little, postoffice inspector, Washington, D. C., informing us that one O. R. Remington, with address P. O. Box 1527, Washington, D. C., had been taken into custody on the night of November 9, charged with having used the mails of the United States for fraudulent purpose.

It is believed that he operated the same scheme in October and November, 1915, from Cincinnati, Ohio, using the name H. H. Audley, but that his real name is Harold Moore, a resident of Oneida County, N. Y.

Owing to business reasons, Mr. Barnum of Foxhurst Farm, informs us that he has decided to sell, without reserve, all of his Black Orpingtons. This includes his foundation stock, together with his great line of show birds, including the Madison Square Garden winners. It is with much regret that we make this announcement, as the fancy poultry business needs more such men as Mr. Barnum, and cannot well afford to lose him. We therefore sincerely hope that Mr. Barnum will find time to take at least some interest in the fancy.

H. H. Coburn of Red Sussex Farm, St. Clair, Mich., informs us that he sold his entire flock of Red and Speckled Sussex, including his New

York and Chicago winners, good will, etc., to Walhalla Poultry Farm, Ascola, Mich.

Wendell's
SANITARY
POULTRY SUPPLIES
INCUBATORS, BROODERS, NON-FREEZING
FOUNTAINS, FEEDERS, OAT SPROUTERS
AND 60 MORE LABOR SAVING ARTICLES
FOR THE PRACTICAL POULTRY MAN
GET OUR BIG FREE BOOK ADDRESS

**AN EGG
IS 73%
WATER**

**Your Hen
Must have warm
water in the winter**

This fountain will warm the water and keep the grain warm, it also will keep the frost out of a small sized hen house. We have FIRELESS FOUNTAINS that keep the water warm without a lamp, get our FREE BOOK HOW TO GET EGGS IN WINTER.

WENDELL INCUBATOR CO. HOLLY, MICH

**I COULD DIE EATING
RAT SNAP**

says the rat—and he does! He prefers it to all other food and it is the last he eats. RAT SNAP chemically mummifies the carcass. Prevents all odors. Does not dry up, soil, decay or blow away. Not mixed with other food. Ready for instant use. Surest, quickest, safest, cleanest, most convenient and sanitary method of exterminating rats and mice. Get rid of rats! It is economy. Buy ten big cakes prepaid, for a dollar. Send today. Protect Your Chicks and Feed Supply. **MERCHANTS DRUG COMPANY** Easton, Maryland

GET MY PRICE

THIS is the finest, cheapest, most efficient hatcher I have been able to produce after thirty years. Thousands have proven it perfect in heat, moisture and ventilation. Round like a nest. Just the right size. 60 eggs, for economy, convenience and results. Fitted with famous Sheer Automatic Fixtures, and guaranteed to hatch every hatchable egg. The 1916

"Peerless-66"
is the only practical, all-metal, fire-proof, everlasting hatcher ever produced. Make any new or old incubator absolutely automatic with Sheer Fixtures, Automatic Lamp, Regulators, Complete Heating and Ventilating Systems, Incubator Parts, etc. World's standard 25 years. Big Book FREE. **H. M. SHEER COMPANY,** 165 Hampshire St., Quincy, Ill.

Glass Top Visible Egg Chamber

Crown Bone Cutter

EASIEST run, Fastest Cutter, Strong, Substantial build. Bone scrap means more eggs, higher percentage fertility. Own a "Crown" Cutter and have fresh bone for every feed. Dry Bone, Grain and Shell Mills, Hand and Power sizes. Free illus. catalogue. Est. 36 years **WILSON BROS., Dept. 6** Easton, Pa.

Best Made—Lowest in Price

MONEY IN HONEY Bees Pay Easy, interesting work. Latest Methods of bee-keeping told in 24 page "Bee Primer." Send for new 3 months subscription, primer, and bee catalogs to **AMERICAN BEE JOURNAL, Box 28, Hamilton, Ill.**

25c

IRISH POTATOES FOR POULTRY FEEDING

Excellent and Valuable Food for Poultry Fed Either Raw or Cooked.

By MAURICE H. DECKER

I REMEMBER WELL, when years ago my attention was first called to the good results obtained by feeding large quantities of vegetables to hens by an old German farmer. This elderly gentleman, a typical personification of German thrift, by supplying his flock with plenty of fresh air, night and day, by giving them plenty of cooked and raw vegetables and by keeping their feet from coming in contact with ice and snow, advocated in this early date of business-like poultry raising, three practices for obtaining good egg yields thru the winter, which are now current and popular. His poultry house effectively protected on all sides by encircling hills and dense sapling growth was built of logs well chinked, with a thatched roof, and was ventilated by a large opening cut into the front, covered merely with wire netting. This opening he assured me was never closed, except when an old piece of carpet was

hung up to prevent driving storms, coming head on, from beating in, and which was an infrequent occurrence in this sequestered nook among the hills.

Early each morning the house was opened up and the fowls, large, husky, individuals, principally Barred Rocks, marched out over a narrow path of marsh hay laid on top of the snow to the barn and cow shed, where they scratched and hustled for their breakfasts. At noon they were given an enormous kettle full of boiled cabbage, turnips, potatoes and carrots thickened with bran, and at night a liberal feed of corn on the ear. As large quantities of these vegetables were grown and stored away each year, there were an ample number of bushels available for this daily mash, the small specimens being carefully gathered up for this purpose, along with any damaged, soft or decaying tubers, sorted out from time to time. Supplementing this menu there was generally a crock of sour milk or butter-milk setting in the poultry house.

And how those hens did lay! The flock averaged about 200 thru the winter and it was common knowledge in that neighborhood that the hens kept the family supplied with clothes and groceries. From this flock their owner

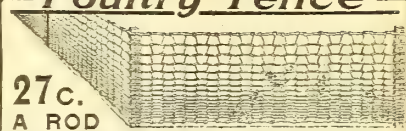


The Extra Eggs
will soon pay for one of these Automatic Self-Heating Poultry Fountains and Heaters

Keeps water at the right temperature day and night in the coldest weather and made of Galvanized Steel. A long felt want supplied. Every Hen-House needs one. Price of 1 Heater and 2 gallon Automatic Fountain complete \$1.25. Write for Circular C and testimonials. Agents wanted.

C. A. S. FORGE WORKS, SARANAC, MICHIGAN

Poultry Fence



27c. A ROD

Made of Open Hearth heavily galvanized steel wire. Strong, durable, closely woven. Requires fewer posts no base board or top rail. **Not a flimsy netting but a Poultry Fence. Sold direct to user.** Write for free Catalog showing many styles of Poultry, Farm, Lawn Fence and Metal fence posts.

KITSELMAN BROTHERS
Box 295 MUNCIE, INDIANA.

Ironclad

TRADE MARK

Wins in the Two BIGGEST HATCHING Contests Ever Held

Why take chances with untried machines when for only \$11 we guarantee to deliver safely, all freight charges paid (East of the Rockies) BOTH of these big prize winning machines fully equipped, set up ready for use? Why not own an Ironclad—the Incubator that has for two years in succession won in the GREATEST HATCHING CONTESTS EVER HELD? In the last contests conducted by the Missouri Valley Farmer and Nebraska Farm Journal, 2,000 Machines were entered, including practically every make, style and price. With the Ironclad—the same machine we offer with Brooder, freight paid, for only \$11—Mrs. C. F. Merrick, Lockney, Texas, hatched 148 chicks from 148 eggs in last contest.



Completely Covered with Galvanized Iron

COPPER TANKS Built for Service

Both for \$11 Freight Paid East of Rockies



150 EGG INCUBATOR CHICK BROODER

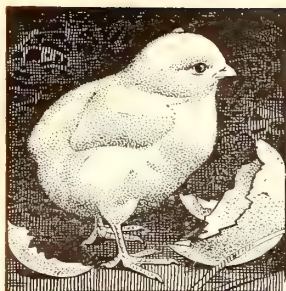
When an incubator is constructed of material of this kind it gives you the strongest and most durable incubator that can be made—a machine that will not warp or shrink, or open up at the seams, as every joint is lapped over with our galvanized iron covering—giving you a machine that will last a life time. Don't class this big, galvanized iron covered dependable hatcher with cheaply constructed machines. Ironclads are not covered with cheap thin metal and painted, like some do to cover up poor quality of material. Ironclads are shipped in their natural color—you can see exactly what you are getting. Don't buy any incubator until you know what it is made of. Note these Ironclad Specifications: Genuine California Redwood, triple walls, asbestos lining, galvanized iron covering. Galvanized iron legs, large egg tray, extra deep chick nursery—hot water top heat, copper tanks and boilers, self regulator, Tyco's thermometer, glass in door, complete book of directions, and many other special features fully explained in free catalog. Write for it today or order direct from this advertisement and save time.

IRONCLAD INCUBATOR CO., Box 45 Racine, Wis.

This Book Sent FREE

It tells how Ironclads are made and why they win in the Big Hatching Contests.





Day-Old Chicks —AND— Ducklings

We furnish Pure Bred Chicks and of the finest Quality. We only ship big, strong, healthy Baby Chicks that LIVE, hatched from healthy, vigorous stock. Some fifteen varieties of poultry, raised on different farms. Our White and Fawn and White Indian Runner Ducklings are of the best Egg-producing strains. We also do custom hatching. Write for our big Free Illustrated Catalog at once, as this ad may not appear again. Address

J. W. OSSEGE HATCHERY Dept. 6 GLANDORF, OHIO

SAVE TIME AND AVOID WORRY

BY USING

Improved Roller Tray Incubators and Brooders

AND HAVE STRONG, HEALTHY CHICKS.

These incubators have perfect ventilation, even temperature, accurate automatic control of heat, and eggs are rolled over properly by a turn of crank, saving time and danger from handling. Catalogs. Factory, Northampton, Pa.

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ROSE COMB WHITE LEGHORNS

Winners at National Shows—Chicago Coliseum, Milwaukee, Minneapolis, Duluth and many others. At Milwaukee 5 1sts; 3 2nds; 3 3rds, in competition with World's Fair winners. Eggs for hatching and day-old chicks.

MRS. J. WOLF

Box 40

MERRIFIELD, N. D.

SINGLE COMB WHITE LEGHORNS

TRAPNESTED.

"Satisfaction Always."

RANGE RAISED.

Memphis Tri-State Show, 1914. 356 in class. Won 2, 3 Cock; 1, 2, Hen; 4, Cockerel; 1, 2, 3, Pullet; 3, 5, Pen; Best Display. Again in 1915 and 1916, won more prizes than any other breeder in class. Little Rock, 1916, won all prizes except 2nd pullet and 4th Cock. Dallas, Texas, 1916, 1st Hen, 3rd cockerel. Reports of customers show that our hens do lay. Choice hens and pullets at \$1.50, \$2.00, \$2.50 and \$3.00. These hens are breeders from our own yard. Extra value in cocks and cockerels at \$2.50 to \$10.00. Reduction on large orders. Show birds a matter of correspondence. Free Catalog and Mating List. Seventh year. Largest farm in State. Completely equipped.

Fourche Mountain Poultry Farm, (Cummins Ratcliffe, Owner.) R. F. D. No. 11, Little Rock, Arkansas

Give Me 20 Minutes a Day

For 3 Weeks
and I Will Produce a
Hatch That Will Surprise You

Let me show you what a *real* incubator can do. Give the "Successful" 20 minutes a day of your time for one hatch and then count the chicks. Learn why the big money-makers in the poultry business use "Successful" Incubators and Brooders. They are *real* chick producers and chick savers. Write me for my 1917 offer. Why be content with uncertain results when the same money can bring you a *top notch profit maker* that will save time and expense every year you use it?

"SUCCESSFUL" Incubators and Brooders

The only machine in the world guaranteed to be cabinet made. The only hatcher that heats around the colder edges of the body first. Guaranteed to vary not over a fraction of one degree throughout the entire hatch—because of the fact that our own patented lamp and water thermostat regulator are 99.9-10 per cent perfect.

Sold Under the Strongest, Most Liberal Guarantee to Hatch a Chick from Every Hatchable Egg

"Successful" Incubators have been built and sold for twenty-two years. "Successful" Brooders, too, are built too good to compare with others. Raised floor, glass drop top, real hot water heating plant, rain and cold proof. Write for catalog and prices.

Get 50 Per Cent More Eggs

Feed sprouted oats. Change 1 bushel oats into 3 bushels green, tempting, egg-making food with a "SUCCESSFUL" Grain Sprouter. Made in all-steel sections, fire-proof—double steel walls, separate sections. Save one-third on feed cost. Write now for circular and prices.



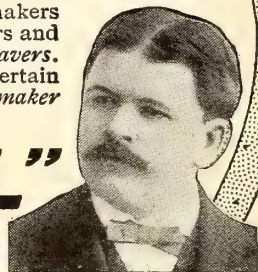
Poultry Lessons FREE

to every buyer of a "Successful" Incubator or Brooder. Famous little booklet, "Proper Care and Feeding of Chicks, Ducks and Turkeys," sent for 10 cents. Big catalog is free. Send for it.

J. S. Gilcrest, Pres. and Gen'l Mgr.

Des Moines Incubator Co.

1 Second St.
Des Moines, Iowa



J. S. GILCREST, President
Life Member American
Poultry Association



\$750
ONLY and Up

If interested in hatching in big numbers, state hatching capacity desired and write for special proposition.

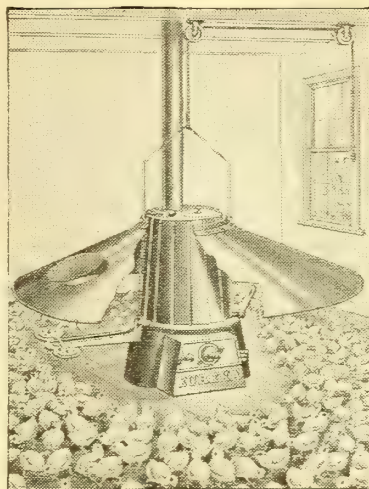
I recognize a distinction between the value of vegetables and green feeds, such as sprouted oats and steamed clover when prescribed as being indispensable to a layer's requirements and do not see how one can completely take the place of the other. It has been my own experience that both must be fed if the very best results are to be expected. There is a sufficient variety of both classes to enable some representatives of each being kept continuously on hand.

The vegetable which appears to me to be most suitable and profitable to grow in connection with the poultry flock is the potato. We grow a few mangels and sugar beets now and then principally in testing out different varieties, but our hens never seem to relish them as they do the Irish spud. If potatoes are cheap we have a good feed that can be converted into cash via the egg basket and if the market is good we sell the best and buy a few bushels of the cheaper beets and turnips. Either way we come out ahead, providing the yield per acre is good. I regard the potato as cheap hen food at 40 cents a bushel and when we take into consideration the diversity of soils in which potatoes thrive and do well, and the possibilities of enormous yields, it certainly sums up on the whole as a rather attractive proposition, particularly to the poultryman with a limited amount of ground.

With the prevailing high prices of grain and the probability of their duration, poultrymen are going to find it a difficult task to produce eggs and meat at a profit unless wheat, corn and oats are supplemented with some feed produced on the home farm at a low expense. We have considerable faith in the potato meeting this demand and are planning to plant them in every possible piece of ground on our farm.

If scientific methods (I take the word science to mean simply common sense correctly applied) were more generally applied thruout the United States to the smallest garden potato patch as well as the biggest fields, and the yields per acre brought up to those obtained in other countries, an incredible amount of wealth would be added to this realm, and furthermore, if all the small tubers usually left upon the ground were scrupulously saved and fed to the hens along with culls picked out by an occasional sorting over of the storage bins, another substantial sum would be added to our country's resources.

The poultry yard is a splendid place for the potato patch. The ground requires cultivation to keep it sweet and the hens do not injure the plants when once well started, except by an occasion-



SURE MONEY For Dealers and Farmer Agents

With the New Improved

EUREKA COLONY BROODER

The Best Brooder Stove Proposition on the Market

This wonderful brooder raises the chicks instead of smothering them. It is absolutely *gas proof*, can be operated at a cost of only five cents per day, and being self-regulating needs attention only once every 24 or 48 hours, (depending on the weather.)

The price for 500 capacity, is but \$12.00; for 1000, \$15.00. This is the only colony brooder on the market selling at anything near the price. You can make real money selling this brooder—its quality, construction, automatic features, and general efficiency impress on sight. Experience is not needed. Send at once and get the rights for your territory. We make the Eureka right and we treat our agents right.

Price is low—discount liberal.

JAMES R. WOTHERSPOON
240 N. Front St. Philadelphia, Pa.

WINNERS AGAIN

At Hagerstown, where there were about 9000 entries and every class well filled, Monmouth Farms demonstrated again its right to the title of "America's Premier Leghorn Farm." Against the stiffest competition we won almost every first and second prize in Whites and went far ahead of any other exhibitor in Buffs.

DOES IT MEAN ANYTHING TO YOU?

Wouldn't you like to be represented in a Show by birds of this character? It's the surest way we know to come out with Blue Ribbons. Better write us today—right now. Tell us where you want to exhibit. We'll help you win.

HAGERSTOWN WINNINGS

Whites 1st and 2nd Cock
1st, 2nd and 4th Hen
1st and 2nd Cockerel
1st, 2nd, 4th and 5th Pullet
1st Old Pen
2nd Young Pen

Bufs 1st and 2nd Cock
1st Hen
2nd and 4th Cockerel
1st Old Pen
4th Young Pen

Best Display in both classes and many Specials.

Watts Bros., Owners

Monmouth Farms
Box 23

Freneau, N. J.

Silver Wyandottes, Red and Speckled Sussex

We have a lot of Cocks, Hens, Cockerels and Pullets of the above breeds and can supply your needs in either breeders or show birds. All stock sold on a money back guarantee if not satisfactory. We will be glad to make you prices on any stock that you may want.

Send for Catalogue

A. & E. TARBOX

Box A

YORKVILLE, ILL.

PURE BRED DAY OLD CHICKS—200,000 CHICKS FOR 1917

Leghorns, Reds, Rocks, Wyandottes, Anconas, Minorcas, Orpingtons. We are booking orders for spring delivery. Our stock is all on free range, thorobred, carefully mated, properly hatched, promptly delivered, best strains. Strong guarantee. Write for catalog.

WOLF-HUBER HATCHERY CO.

Dept. A, Gibsonburg, Ohio

PARTRIDGE ROCKS

America's Best Exhibition and Breeding Strain—500 Grand Show Birds and Breeders Must Be Sold Soon

Get your new blood while these birds last as we will offer no Partridge Rock eggs for sale next spring. Prices very reasonable considering quality. Write your wants. Illustrated catalog for stamp.

BIRD BROS.

Box C

BRONZE TURKEYS

World's Champion "Goldbank" Strain The Strain of Great Size and Vigor

If you are interested in turkeys that will not only produce prize winners but will produce the large vigorous kind that live, write us. These birds are reared here in the mountains in the natural home of the Wild Turkey. Write your wants. Catalog for stamp.

MEYERSDALE, PA.

BUFF ORPINGTONS

Our records show that we won more than 75 per cent of the first prizes at Nashville, Atlanta, New Orleans, Cincinnati, Columbus, Pittsburgh, Indianapolis, Springfield, St. Louis and Louisville. Our customers are winning right along in every show of importance from New York to California. Plenty of first-class exhibition birds now ready and at fair prices. Write for price list. **O. M. ABBOTT, Box 10, WHITELAND, IND.**

Look to the future

Whether or not your birds will be successful depends on your foundation stock. It is your duty to learn all you can about the different "strains" and then decide upon the one that has made the greatest name for itself. If show records and ability to reproduce are to be considered, then you will decide on buying

Payne Bros.

Rose Comb

REDS

They are the real champions of New York, Boston and Springfield, Mass. They have won over 700 prizes at the best shows, including 5 first pens at Boston and New York, out of a possible six. Exhibition birds furnished for any show. Catalog is free. In writing us, state if you want

*Exhibition or
Breeding Birds*

PAYNE BROS.
Box J Portland, Conn.

S. C. Anconas

At the Wisconsin State Fair, Milwaukee, Sept. 1916, where I made only 7 entries, my **Anconas** received the following awards:

*1st and 2nd Cockerel
1st and 2nd Hen
3rd Pullet*

I have over •

**80 Fine Exhibition Cockerels
and 100 Select Pullets**

for sale; all bred from Chicago and Milwaukee winners and of the very best quality. Catalog Free.

CORA B. GARBUTT
DARIEN WISCONSIN

al "wallowing" in the row and little chicks have the regular time of their lives foraging under the vines.

We have found the principal requirements under human control for a successful potato crop to be a medium soil, rich in potash and humus, good seed free from disease, two good cultivations, after the plants are up, then a straw mulch, two or three sprayings for bugs and diseased leaves, timely digging and proper storing of the yield.

Humus can be supplied by plowing under in the fall, a rank growth of vegetation preferably some legums, or fifteen to twenty loads of stable manure, or both, along with two hundred to four hundred pounds of sulphate of potash per acre. The deeper you can plow the better. Then in the spring disc in five or six loads of chicken manure rather free from straw and you will have a soil capable of producing a profitable crop. The seed should be carefully selected from as large a quantity as possible and should be regular in form and medium in size with plenty of good eyes and formalin treated to insure freedom from scab and rot. We select our seed at digging time and by choosing considerably more than our requirements call for, are enabled to plant those specimens that come thru storage in best shape.

About four inches deep will be found the best depth to plant. Cultivate twice just deep enough to clear out the weeds and then cover the patch evenly with the straw litter from the poultry house floor you have saved for this purpose during the winter. We believe we get better results when the rows are not hilled up but are left level the same as the corn ground.

The importance of several good sprayings with a solution of lime and sulphur plus Paris Green, if bugs are present, can never be fully appreciated until you have once tried their effects. Oftimes the yield may be increased by one-third by this attention. Unhealthy looking, stunted plants, generally denote diseased leaves and when such are noticed the sprayer should be brought into action at once.

At digging time (if you dig by hand) your back will greatly appreciate the superiority of a long handled six-time manure fork over the regular short potato spade.

We prefer to store our potatoes in a cellar, placing them in bushel crates, which are stacked up one on top of the other rather than loose in large bins.

They get better ventilation this way, are easier to sort over, to locate decaying specimens and my wife says by using up one crate at a time the little ones are not all left to be used last.

The ideal way in which potatoes should be prepared for the hens is boiled with the skins on. As those latter are pretty strong and there is more or less dirt present on potatoes intended for poultry, we pour off the first water as soon as it boils and then they can be salted and fed whole or mashed and mixed with table scraps and ground feed. I like to feed them with steamed alfalfa to our hens and give them all they will eat at noon every day. Potatoes may be shredded in a root cutter or placed raw in a wire netting pocket nailed to the poultry house wall, to be picked at will and the raw tubers are undoubtedly valuable to them as a change. But our hens like them nine times out of ten, best when cooked and will sing for an hour after filling up on their potato mash. In very cold weather the scratch food should be mainly cracked corn, when lots of vegetables are fed, or the birds will not get enough of this heat producing grain to keep them comfortable when on the roost at night.

Shoemaker's Poultry Book and Almanac for 1916.



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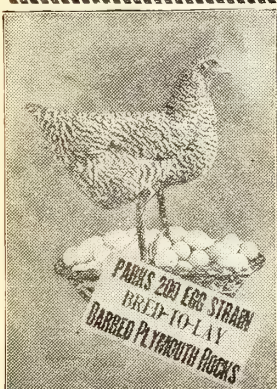
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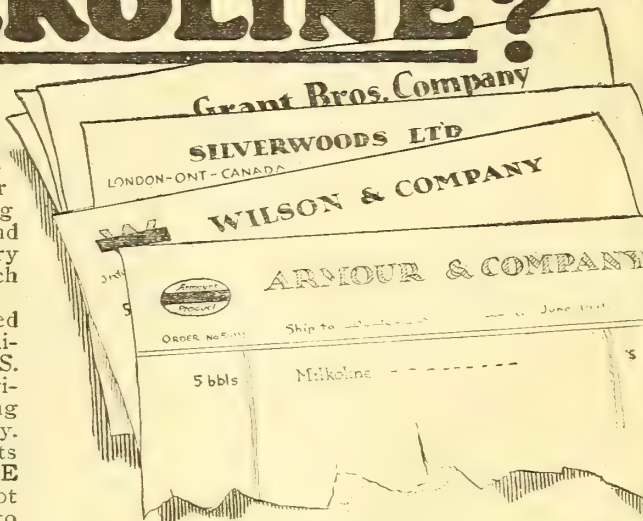


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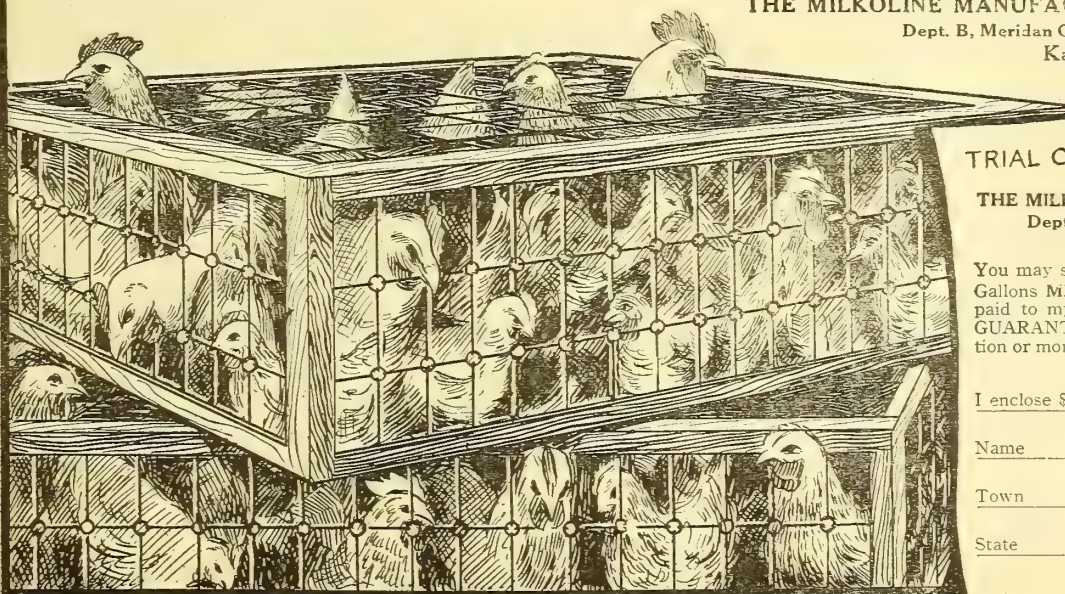
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BREEDING WHITE LEGHORNS FOR EXHIBITION.

Rules for Feeding, Selection and Preparation for the Show Room. Pullets Conforming to Standard Type Are Best Layers.

By R. R. MYERS, Elkhart, Ind.

ASSUMING the breeders are in good condition and properly mated, S. C. White Leghorn eggs run high in fertility and hatch well. The chicks feather very early and I find, when the wing primaries are clipped, the chicks grow rapidly and develop quickly.

I will give no feeding rule, as location and market generally govern such. However, I feed chicks a little commercial chick food three times a day, give them free range and let them balance their own ration. As they grow older I substitute a good developing food, later a good scratch food, market the surplus cockerels and let the pullets range until fall.

The promising cockerels are kept in well shaded runs and fed a liberal quantity of bread and milk. As the mature feathers appear, cease feeding yellow corn to both pullets and cockerels.

As the fall rains approach, get the pullets into the laying house. Don't change to the laying ration too soon, as it will induce a moult. I find after a gradual change, they will do well on a little commercial scratch food, in litter, in the morning; greens and scratch food at noon; good mash containing 10% beef scrap at 3 o'clock, and whole white corn at roosting time.

I have found the pullets approaching the Standard type are my best layers, and consider a good cushion, which makes the sweep to the tail possible, beneficial to winter egg production. Have also found the small comb not so liable to frost.

Old birds intended for exhibition should have their shanks vaselined and bandaged as soon as taken from the brood pens, fed plenty of bread and milk and foods containing no yellow pigment—and must have plenty of shade to grow the desired blue white plumage.

The cockerels intended for exhibition should be cooped separately to allow them to become cocky, learn to be handled and pose readily. Look carefully for white in the face, for more S. C. White Leghorn cockerels are disqualified for that than all other defects combined.

Pick the pullets that will lay about show time, as they are then at their best. If their combs are not large enough, a little meat and a warm room will remedy

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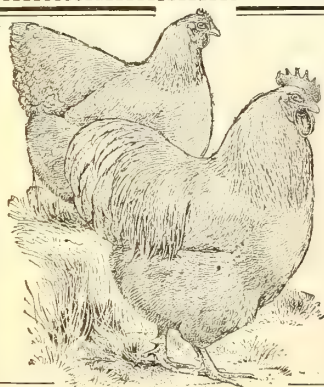
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them, if too large keep them in a cool place and feed no stimulating foods.

About a month before showing. I wash my string and blue them good and strong, return them to their former quarters, where the blue will gradually fade and take the creaminess with it, and if at this time the ear lobes are a little creamy, a few applications of zinc ointment will help to whiten them.

Just before the final washing, remove all dirt from under the scales of the shanks and toes.

Space forbids describing the final washing, more than to say I use four tubs of water and castile soap, am very careful to rinse well, as the feathers will not web out if any soap remains. Am also very careful not to use much bluing in the last washing. The birds are then put on a perch, in a warm room, to dry, as in this way they cannot muss their tails. If the neck hackle curls a little, the room is too warm, the hackle may then be moistened, the room cooled, and they will come out all right. To fan the tails is time well spent and a little corn starch dusted thru the feathers, when dry, will help web them out, after which blow the wrong way of the feathers, as this will remove the excess starch.

Prior to shipping to the exhibition, I widen the tails by taking the main tail feathers between a lead pencil and my thumb and turn each pair downward. If the bird shows a break at the base of the tail I turn the saddle up in the same manner. This may not be perfectly legitimate, but as most exhibitors do it, you must do so or be left at the post.

It is now a fact that we must double mate to produce the exhibition specimen of today and will say, for producing cockerels, I prefer a Standard exhibition male, with a small comb well set on his head, mated to Standard type females, with small straight combs with firm bases, said females to have very heavy cushions. For producing females, I prefer a Standard exhibition male, with a thin comb and not much base; mated to Standard type females, with combs a little large, said females to have rather light cushions. Of course all birds to be as white as possible, have neat heads, full breasts, good wing carriage, proper station, long concave backs, low well-spread tails and free from white in the face. However, if we must use a bird with white in the face, have a little red in the lobes of the other side of the mating, to offset it, and last but not least, all females must be heavy layers of large white shelled eggs.

My experience with S. C. White Leghorns has led me to believe that they are the highest producers of eggs in the poultry world, as the fact, that about 90% of the commercial egg farms are stocked exclusively with them, will bear me out.

I also know of no variety of fowls that will assimilate and turn into eggs the concentrated foods used in forcing egg production that these fowls will. This is largely due to their active disposition.

In conclusion, my opinion is, when properly housed and fed, no pullets will lay earlier, no fowls will produce more eggs, be productive for a greater number of years or make a quicker two-pound broiler than S. C. White Leghorns.

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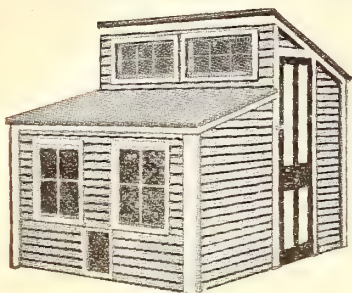
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WHY I BREED BLACK LANGSHANS.

The Aristocrat of the Show Room with Original Shape and Style—One of the Best Breeds for Caponizing—Unexcelled for Utility Purposes—A Contest Article.

By DEWITT T. FREE, Thurmont, Md.

I BREED Black Langshans because I enjoy it and because it pays. Both very good reasons.

Of the origin of the Langshan, little need be said, for it is generally known that the breed was imported into England from the Langshan district of China some forty years ago. Previous to that date it had been bred true for many generations. With this long line of ancestry, its prepotency is great and its breeding qualities are true. In spite of bad matings it is difficult to change the type, and if matings are good and carefully made a very large per cent of the offspring will be high class specimens.

The Standard of Perfection calls for a cock weighing nine and one-half pounds; hen, seven and one-half; cockerel, eight; pullet, six and one-half. Although we sometimes have birds that run larger than these weights, I try to keep them from getting coarse, and for this reason it is well to breed pretty

close to the Standard requirements.

The Langshan is recognized as one of the best of the breeds for caponizing, not because they grow larger but because they are more easily operated on than any other breed. I have never worried over the visits of friends or neighbors as meal time approaches when I have a Langshan for the table.

The Langshan cannot be surpassed for beauty. He is the aristocrat of the show room and there is no more impressive or commanding figure than the Langshan male, with his flock at home. The glossy, greenish black coat, which adorns the typical show bird, the elegance of carriage and general bearing make the Black Langshan appeal to those who care for richness and the artistic in fowls—even tho they may not have either in their pockets or their homes.

One of the main reasons why I fancy the Langshan is because of the character of the breed. I leave it to the reader of the following incidents to judge whether I am right or wrong.

I have a Langshan cock bird that will deliberately fly and fight at a stranger who will attempt to pick up one of his hens, while there is never a stir when I do the same. I have seen the Langshan mother fuss when strangers would approach only to become quiet by my appearance. I have taken hens and pullets which have started their nest on the ground or floor, put them in reg-

ular boxes, and unlike some breeds, settled to their work, and from that time on, knew their places. It is very rare to see a scary, flying Langshan, tho they are active beyond the imagination of those who have not bred them and know them not. Langshan males and females will follow like dogs, and it is seldom, if ever, that you hear of a Langshan breeder with nets or hooks with which to catch his stock.

The laying ability of any breed is one of the first things for consideration, especially for those who are contemplating a start in the poultry business. I have been asked many times, "How do the Langshans lay?" and to this question now as then I answer, fine, especially during those spells when breeders of other varieties cannot stretch the facts that far. The published records show the laying ability of the Langshan. In the present Missouri Egg Laying Contest, a Langshan hen stands fifth after five months. It is in the Winter time when eggs are high and scarce, that the Langshan does its best work laying. The eggs are dark brown in color, large in size and, if you will weigh a dozen of these, side by side with a dozen of eggs from some of the other varieties, you will be somewhat surprised at the much greater weight of the Langshans.

My chicks are mostly hen-hatched and all are hen reared. I sometimes have to hustle to get the setting hens but I get them. I have found that the chicks start better and grow stronger and reach an altogether finer development raised this way. The hen starts them to ranging and they keep it up later. She teaches them a great many things which they need to know and which mankind cannot teach them. I take great care to avoid too many chicks being in one coop, mainly because the chicks develop faster than we realize, and the lack of air, room, water and food, as well as unsanitary conditions where they are crowded always tends to stunt and keep back the growing chick. Give a Langshan chick plenty of room, good food, plenty of water and forage and you cannot beat it for good development.

In closing, I wish to repeat that the Langshan breed consists of a beautiful show bird with an original shape and style, not manufactured and consequently not too hard to breed for Standard requirements. And they are excelled by none as utility specimens as they are always large, fine-fleshed and small boned, besides being as good as the best Winter layer and better than the average for the year around.

They are not wild, flighty or unapproachable, and as they are hardy, both the young and the old birds, I believe we have a breed from which it is impossible to ask more.

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WHY I BREED S. C. BLACK MINORCAS.

Because of the Color and Quantity of Eggs; the Wide Awake and Vigorous, Friendly Attitude of the Breed, and Their Clean-cut, Fresh, Unsoiled Appearance—They Are a Perfect Combination of Beauty and Utility.

By CHARLES W. LEWIS, Ashokan, N. Y.

IN ATTEMPTING to show why I breed S. C. Black Minorcas, I shall have to start at the beginning. In 1910 I realized that irrespective of the laying qualities of cross-breeds a flock of one variety could be made to do as well, and perhaps better, and after carefully considering all breeds and varieties selected the S. C. Black Minorca, basing my selection on the local demand for large white eggs and the clean-cut appearance of the variety.

Starting with the newly-hatched chick, no better testimonial can be given than the remark of a man to whom I sold two settings of eggs (his first experience with Minorcas), that "they are so large and vigorous that my future chicks will be of the same variety." They seem to have the constitution to enable them to safely pass the period of "feathering out."

I find they are easily grown to maturity, and while not as light feeders as some of the less weighty breeds the

feeding costs are not excessive. When running on range they can be depended upon to do their share on the feeding proposition.

Contrary to the general belief of many persons, their weight is very near that of the Plymouth Rock. Cockerels grow quickly, averaging a gain in weight of about one pound per month up to seven pounds. After this a slight gain in weight is made more slowly. Good bred pullets weigh between five and six pounds at the age of six months, when they generally start to lay.

The flesh is juicy and tender, of good flavor and appearance, and the so-called "crows" dress much better than their appearance would lead some to believe.

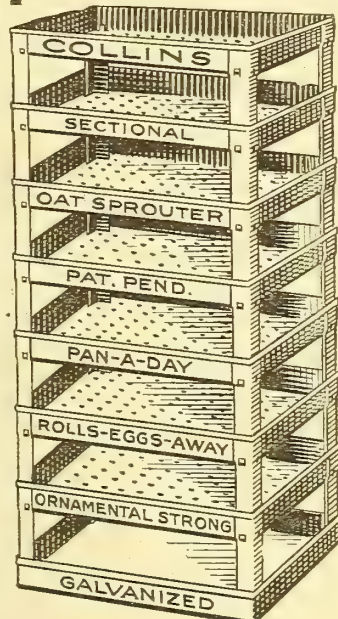
The argument is offered that the S. C. Black Minorca is susceptible to frost bite, due to the large comb and wattles. To a certain extent this is true, but the same applies to other large-comb breeds. Proper housing and ventilation preclude this trouble, which only happens occasionally; in fact, some Winters are so mild that the fowls are never in danger of freezing their combs.

If the primary object of poultry keeping is market eggs, what more could one desire than the Minorca. They are fairly prolific layers of large white eggs, and, with few exceptions, waste no time in broodiness. It is true that they have made no wonderful showings in egg-laying contests, but I do not hesitate to assert that this may be attributed to the fact that breeders have not as yet centered their efforts in developing

Collins Oat Sprouter

Must Prove Its Worth or We Refund the Purchase Price After 10 Days Fair Trial.

Could any offer be more fair? Write today for a Collins Sprouter, enclosing \$3.00. Use the Sprouter, try it out in any and every way, and if after 10 days fair trial you are not fully convinced that you have the best value ever offered in a grain sprouter, and one that at lowest cost will produce in the shortest time, abundant, fresh, sweet, green egg-producing food, and that the Sprouter does everything we claim, return it to us and we'll refund your money.



**Thousands Sold Last Year,
Not One Returned**

DESCRIPTION: All galvanized steel; Knock-down; each part lifts off separately; pans are perforated to insure proper drainage; Fireless; Most complete, Satisfactory, Sanitary Sprouter made.

SIZES: The Popular size Sprouter, 8 pans, 11x15 inches, \$3.00, and small Back Yard flock size, 11x15 inches 5 pans, \$2.00; the Big Breeders Size (20 sq. ft. of surface) 11x32 inches, 8 pans, \$6.00.

PRICES: Made in Three Standard Sizes, at \$3.00, \$2.00 and \$6.00. Delivered free. West of Mississippi River add 50c; west of Rockies, add \$1.00.

Feed Sprouted Oats and Produce Winter Eggs at Half Usual Cost

Unless you feed sprouted grain this Winter you can hardly afford to keep hens. The price of grain is steadily advancing. Cut your feed bills over 50%; increase your egg yield; provide the necessary low-priced green feed, and insure the health of your flock by feeding sprouted grain, grown in a Collins Sprouter.

You Will Feel the Same as Mr. Green After Feeding the Collins Way:

"I received the Oat Sprouter, and put the oats in on Sunday and today (Thursday) have sprouts about an inch high. Those I put in Tuesday are starting to sprout. Am very glad I did not buy an artificially heated sprouter, also think the \$3.00 I spent for this sprouter was the wisest investment I ever made."—MARCUS GREEN, Canton, Ohio.

DEALERS SPECIAL PROPOSITION

I'll send any responsible dealer, all charges prepaid, a sample sprouter with show card, printed matter, etc. Display the Sprouter, make sales, order more. If unsold at end of sixty days return it to me. Customers supplied thru their dealers, or direct. Write for circulars and prices in quantities.

AGENTS—I have a good proposition to offer. Write me.

W. H. COLLINS

20-T Harrison Street

NEW YORK

\$3
DELIVERED FREE
East of the
Mississippi River

A Suitable Christmas Gift

Have you a friend?

ONE who is close enough to you to be remembered with a gift at Christmas time, yet who is not close enough that you feel justified in expending very much money? If you have such a friend who is interested in the raising of poultry, we can solve the gift problem for you. Think of presenting this friend with a gift that cannot but help keep you remembered, for it reaches them every month for 36 months.

This is our offer: Just fill in the blank on the other side and return it to us with a dollar bill. We in return will mail your friend a handsome engraved Xmas card telling them that you have presented them with the American Poultry Journal for 36 months; this card will reach them Xmas morning. Then, beginning January, 1917, and continuing for three years, they will receive the Journal.

Now truly, can you suggest a more suitable, reasonable and lasting remembrance? Do not wait, mail this coupon now!

Anyone
raising
Chickens
will
appreciate
it.



Clip this
Coupon
and
Mail today

American Poultry Journal Publishing Company,
542 South Dearborn Street, Chicago, Illinois.

Gentlemen:—

Enclosed find \$1.00 for which send a Xmas card and the American Poultry Journal for 3 years, beginning January, 1917, to my friend

Name _____

Street or R. F. D. _____

City _____ State _____

Also mail me acknowledgement of this order.

My name is _____

Street or R. F. D. _____

City _____ State _____

high-producing strains by trap-nesting.

I take pride in exhibiting to my friends the large white eggs produced by my flock. The marketing is no proposition at all; they sell themselves; and I receive the proceeds of my sales with the feeling that I have given full value.

Some persons assert that a layer of large eggs must necessarily be a poor layer, due to the fact that large eggs put an excessive tax on the vitality of the hen. I have trap-nested since January 1st, 1915 and find that my best layers produce eggs averaging 30 oz. per dozen, uniform in size, shape and color.

The Minorca, being active and, therefore, able to stand confinement, is not prone to acquire fat, a condition tending to retard egg production. My trap nest records of Minorcas and other breeds show that the fat hens are drones. There are no fat Minorcas in my flock.

If any reader should not find in this hastily written article good reasons why one should breed Single Comb Black Minorcas, I would suggest that he, or she, visit a flock of this variety at night feeding time, noting, first, the size, color and quantity of eggs; second, the wide-awake and vigorous, yet gentle and friendly attitude of the flock; third, their clean-cut, fresh, unsoiled appearance—the bright red comb and wattles, and white ear-lobes, offering a decided and pleasing contrast to the greenish black feathers; and fourth, their activity when the first handful of grain is thrown into the litter.

BUCKEYE INCUBATOR CO. SECURES INJUNCTION

Against Correct Hatcher Company and Model Incubator Company.

Judge Hazel, sitting in the United States District Court at Buffalo, N. Y., has ordered an injunction against the Correct Hatcher Co., of Leesville, Ohio, and The Model Incubator Co., of Buffalo, N. Y., restraining them from imitating the "Standard" coal-burning brooder made by The Buckeye Incubator Co., of Springfield, Ohio.

The Buckeye Incubator Co. brought suit against The Correct Hatcher Co., The Model Incubator Co., and Charles E. Adair, in the United States Courts for unfair competition, and, after hearing a volume of testimony Judge Hazel found the defendants guilty of unfair competition and restrained them from building or selling any more brooder stoves like the Standard.

Judge Hazel says in his decision: "The defendants have not added to their stove any ornamentation or distinguishing marks, but have made a copy of complainants'. They have copied its form, height, proportion of converging sides, base, sliding door, vertical rods, and projecting thermostat arm—all the essential features of complainants' vendible article. Indeed, it was admitted, as heretofore stated, that in making their stoves, patterns were taken from complainants' castings."

The Poultry Fanciers' Club will hold its first banquet on Saturday evening, at 6:30 P. M., December 30, 1916, at the Prince George Hotel, during the Madison Square Garden Poultry Show, New York. It is earnestly requested that all members attend. It is important that the Secretary be notified at least 10 days in advance, so that plans can be perfected. The club's ambition is to elevate the fancy and placing it on a firm foundation.—D. Lincoln Orr, President, Orr's Mills, N. Y.; J. H. Drenstedt, Secretary, Schenectady, N. Y.

NOW IS THE TIME for you
to place your order for that

"Narrow Bar"

COCKEREL

A limited number of excellent breeders at \$3.00 to \$5.00 a piece. Grand exhibition cockerels.

GRANT STURMAN MT. CARMEL, ILL.

The Oakes
"Economy"

Exerciser & Feeder

The fowls get the grain by scratching. The natural way to obtain exercise. Makes them healthy. Especially beneficial in winter. The best feeders. \$1 to \$3 for young or old chickens.

O. K. Poultry Fountains

Sealed dead air space between walls—like a Thermos Bottle. Warm water placed in it in the morning will not freeze all day. Easily taken apart and cleaned.

Complete Line of Poultry Supplies

The Oakes line includes everything for the poultry raiser. We manufacture in our own plant scores of specialties for incubators and brooders and repairs for same. Feeders, fountains and hoppers of all kinds, also egg testers. All in our new catalog.

The Oakes Mfg. Co., Dept. B

Factory and Home Office, Tipton, Ind.
Eastern Branch, 64 Cliff St., New York City

Send for
our new
1917
Catalogue

\$4 BUYS A PERFECT INCUBATOR

Cycle Hatcher Complete \$4.00

Hatcher and Brooder Complete \$5.00

During the rush season we add 400 new machines to our hatchery each year and use them two or three hatches. Every time we run a "CYCLE" it pays us \$1.25. When run twice the profits are \$2.50 on each machine. This is why we can sell them at reduced prices, and is gives customers a tested incubator and the profits it has made. The "CYCLE" was the only machine that produced 100% hatch in a large incubator contest. Our catalog, "Poultry Profits," tells all about this and many new discoveries of the greatest importance to poultry keepers. Send postal and get free copy.

CYCLE HATCHER COMPANY, 13 Lake Street,

ELMIRA, N. Y.

Send for a copy of the American Poultry Journal
Cut Catalog. Full of Illustrations for your printing.

Keeping Accounts.

Every poultry breeder should keep a careful debit and credit account with his fowls. He should know definitely, not only that they pay, but how much they pay. Such accounts need not be elaborate, but they should be accurate. Charge the fowls with all that they consume and credit them with all they produce; the balance will be the profit. Not all of the profit, for no one can measure in dollars and cents the pleasure that one gets from his flocks, and that is a big item in the real profits.

We sometimes hear people say they never had a chance. Invariably those who give voice to this plaint are gifted with good sound bodies and have the blessings of hearing, sight, touch, taste and smell. In other words they are fully equipped but do not understand how to make the most of their mechanism. The finest machine is the human machine. Nothing ever conceived by the brain of man can approach it, in its marvelous illimitability. No other machine can stand such abuse or possesses the same measure of adaptability to right itself. No man would own even a low priced car without giving some thought to its care and capability. When a car is worn out and must be discarded, a new one may be purchased to take its place at slight cost. The human machine with any sort of care will keep in good running order for seventy-five to one hundred years, but it must have the same little daily attention that is given the car between runs. Think of it! In possession of a marvelous machine, easy to keep in good running order, capable of accomplishing all manner of herculean tasks at the bidding, at very slight upkeep cost. All we have to do is to study the mechanism, find out for what purpose it is best adapted, keep it in order and have a clear mind guide the hand that holds the steering gear.

Here, indeed, is the marvel of the world, the study of the ages, the hope of the future—the Human Machine.

Dr. J. W. Cooper, in his book on *Game Fowls*, published in 1859, makes the following extraordinary claim:

"The cutting off of the access of air to the embryo in the egg, does not kill or prevent its being hatched, but on the contrary preserves it alive for a much longer period than if otherwise treated. By covering the egg with a spirit varnish we have produced chickens from eggs of two years' keeping. The following is the recipe: Dissolve some Gum Shalac in a sufficient quantity of alcohol to make a thin varnish, give each egg a coat; and after they become thoroughly dry, pack them closely in bran or sawdust, with their points downward, in such a manner that they cannot shift about. After you have kept them as long as you desire, wash the varnish carefully off, and they will be in the same state as they were before packing, ready either for eating or hatching. This is beyond doubt the best and safest method known, and has been amply tested."

[Note—We don't like to doubt the worthy doctor's claim, especially when he cannot "return fire," but this story reminds us of the yarn from the Southwest about growing corn from seed 2,000 years old, which was removed from an Inca tomb.—EDITOR.]

Dr. Oliver Wendell Holmes said: "Truth is tough. It will not break, like a bubble, at a touch; nay, you may kick

it about all day, like a foot-ball, and it will be round and full at evening."

John Locke said: "The best way to come to truth being to examine things as really they are, and not to conclude they are, as we fancy of ourselves, or have been taught by others to imagine."

And James Russell Lowell wrote: "Get but the truth once uttered, and 'tis like A star new-born that drops into its place And which, once circling in its placid round, Not all the tumult of the earth can shake."

Keep the drinking vessel clean and see that the birds have a constant supply of water to drink. You can't expect them to lay well unless there is a good water supply; water is very necessary to the production of eggs.

R. A. Chiles, Mt. Sterling, Kentucky, says that the following is the most successful rule for rearing Pheasants: "Faith of Abraham, perseverance of Joshua, meekness of Moses and patience of Job."

There is hope for everyone but the self sufficient man. The individual who devotes his energies and abilities to sighting the defects in all other classes of humanity but discovereth not the mote in his own eye is due for the inevitable swiftly sliding toboggan.



Royal English SUSSEX

"The Favorite Family Fowl" Large, vigorous, dark cockerels; rich top color in both Red and Speckled varieties. Also a few Speckled cock birds. Mention A. P. J. PINEHURST FARM Box B Oberlin, Ohio

The New Edwards Rat and Fire-Proof Baby Chick Brooders

can't burn up your homes. Guaranteed for a life time. Write your own guarantee. Brood your chicks 30 days free at my risk. Write for circulars and prices. Freight prepaid. A. A. EDWARDS BROODER MFG CO., New Wilson, Okla.

White Runners For Sale

Only a few left, not the cheapest, but the best. E. G. CURTIS Box A ATSION, N. J.

For Sale: 2 Candee Mammoth Hot Water Incubators One 8400-egg \$500, one 6600-egg \$400. If sold before Jan. 1st 1917. Will sell in whole or in part.

FRANK BLUM, R. R. 2, Dept. A, New Washington, Ohio

BARRED Plymouth ROCKS

young and old stock at surprisingly low prices. Eggs from grand matings. Order at once. Satisfaction guaranteed. Maple Grove Poultry Yards, J. H. Bashore, Prop., Ludlow, Falls, Ohio.

Homaji Reds

The Greatest Laying and Exhibition Strain of S. C. Rhode Island Reds in the Northwest.

CAREFUL selection of the breeding birds; mating only birds that are correct in type and color, with the egg-laying habit bred into the bone, has made our strain what it is today,

The Best in the Northwest

If you want birds that have stamina and true Rhode Island Red type that will be reproduced with great fidelity in the offspring, it will pay you to send for our mating list describing the various breeding pens. We positively know that you will be pleased with the results from any pen which you select. Right now we can still spare a few



COCKERELS

Birds that will win anywhere. They are high grade but exceptionally reasonable in price. Write us today.

Orders for Eggs for Hatching Booked Now.

HOMAJI FARM

Box A-426

EVELETH, MINN.

Astle's Quality Buff Plymouth Rocks

win 1-2 Cockerel; 1-2 Pullet; 1 Pen Kankakee Inter-State Fair, September 4 to 9. Winners at Chicago, Springfield, Fort Wayne and others. 400 birds for sale reasonable.

Write me your wants. Mention American Poultry Journal.

MILAN C. ASTLE

Box A

MOMENCE, ILLINOIS

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ANCONAS.

SHEPPARD'S FAMOUS ANCONAS—The World's Best. See display ad front page. Cecil Sheppard, Berea, Ohio. 11-16-1yr

ANCONAS—SINGLE COMB. Some elegant, large, dark birds, in cocks and hens, cockerels and pullets. Prices very reasonable for quality of stock. Geo. C. Schwegman, Richmond, Indiana. 10-1

SINGLE COMB ANCONAS—Stock for sale \$2.00 up. Satisfaction guaranteed. John Biehler, Box A, Strasburg, Illinois. 10-12

ANCONA COCKERELS—Single Comb. \$2.00 up. Sheppard strain. Roy Burkitt, Cisne, Ill., Route 6. 11-1

SINGLE COMB ANCONA cockerels for sale. Show birds, good breeders. Anthony L. Elenbaas, Zeeland, Mich. 11-1

ANCONA COCKERELS, \$1.50; 4 for \$5.00. Split Rock Poultry Farm, La Salle, Ill. 11-1

DR. FOQUET'S FAMOUS Champion Strain Anconas. Choice cockerels, pullets and yearling hens for sale. Both combs. Dr. J. H. Foquet, Oil City, Penn. 11-1

GOOD DARK ANCONA cockerels—(Sheppard's). Prices right. A. H. Volberding, Watseka, Ill. 12-2

ANCONA COCKERELS FOR SALE—First class. Prices low. A. B. Evans, Brokaw, Ohio. 12-2

ANCONA COCKERELS—Both combs. Bred from blue ribbon winners and trapped stock. Shipped on approval. J. C. Saunders, Wauseon, Ohio, Route 5. 12-2

400 PULLETS, COCKERELS, hens, cocks, from our Famous Black Diamond Strain Single Comb Anconas, at reduced prices. Get our circular before buying elsewhere. Ancona Poultry Yards, Glencoe, Illinois. 12

ANDALUSIANS.

ANDALUSIAN COCKERELS for sale, from my True Blue strain. None better. Nine months old, coming fine. \$3.00, \$5.00, \$10.00. Gus Kneussl, Ottawa, Ill. 10-12

BANTAMS.

EXHIBITION JAPANESE BANTAMS—Black Tails, White Polish, Black Cochins, Golden and Silver Sebrights. Satisfaction guaranteed. Hez. Kinter, Dillsburg, Pa. 10-12

BANTAM SPECIALIST. Buff, Black, Partridge Cochins, Light and Dark Brahmas. I ship on approval. Circular free. Geo. C. Salmon, Port Dickinson, N. Y. 11-14-tf

BANTAMS bring profit and pleasure. Our monthly tells how and why. Send 50c for a year's subscription or ten cents for a three months' trial. American Bantam Fancier, 508 So. Dearborn St., Chicago. 1-14-tf

BUFF AND BLACK COCHIN and Golden Sebright Bantams, \$5.00 per trio. Bare Poultry Co., Box 909, Hampton, Iowa. 11-1

BUFF COCHIN BANTAMS—Cockerels, pullets and hens, \$1.50 each. Best of blood. John R. Martin, Pulaski, Virginia. 11-1

150 BLACK ROSE COMBS, Buff Cochin and White Japanese Bantams, \$1.00 to \$5.00 each. 10 firsts, 5 seconds, at Madison Square Garden and Boston. C. F. Davey, Vineyard Haven, Massachusetts. 11-1

SOME CHOICE BLACK Tailed Japanese Bantams, in pairs, trios and mated pens. Dr. J. H. Foquet, Oil City, Penn. 11-1

BEAUTIFUL BANTAMS—Black Tailed White Japanese, select strain. Miss Alice Andrus, Wellington, Ohio. 11-1

BLACK AND WHITE Rose Comb Bantams at fair prices from winners at leading shows. Correspondence solicited. Lew Taylor, Gilsburg, Ohio. 12-2

GOLDEN SEBRIGHT BANTAMS—Quality right. Price right. Don Baird, Frankfort, Ohio. 12-2

SOME FINE PULLETS and cockerels offered for sale at one dollar each, by Gold Leaf Buff Cochins Bantam Yards, Box 35, Maspeth, New York. 12-2

AMERICA'S FINEST BANTAMS—All Standard varieties. Shipped on approval. Catalog. F. C. Wilbert, Grand Rapids, Mich. 12-2

BRAHMAS.

LIGHT BRAHMAS—The winners at Boston and the Garden; prices low. Balch & Brown, Manchester, Conn. 12

IF YOU WANT high class Light Brahmas get my prices before you buy. John Blanchard, Columbus, Wis. 11-16tf

MAMMOTH LIGHT BRAHMAS—Winners at St. Louis, Indianapolis and Chicago. Prices reasonable. Geo. Layman, Greenville, Illinois. 11-1

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BUTTERCUP PULLETS, HENS, cockerels for sale. Cox's Buttercup Yards, Marshall, Michigan. 10-12

BUTTERCUPS—BRED-TO-LAY and win. Some stock for sale. Satisfaction guaranteed or money refunded. Wm. Freise, La Crosse, Wis. 11-1

THE COMING BREED. The American Buttercup Club. P. C. Gori, Sec'y, Ulster, Pa. 11-16-1yr

BUTTERCUPS—FEW MARCH cockerels from 245 to 256 egg hens; reasonable. Evergreens, 922 Marion St., Oak Park, Ill. 12

GOLD COIN BUTTERCUPS—Winners of the blue at Chicago. A few choice cockerels. Orla B. Disenroth, Lawrence, Mich. 12-2

EGGS FROM MADISON Square, Palace and Cleveland blue ribbon winners. Cockerels reasonable. Correspondence solicited. Rood, Buttercup Specialist, Garrettsville, O. 12-2

CAMPINES.

BEAUTIFUL GOLDEN and Silver Campines—Cockerels or trios. Many State Fair winners. Also Rose Comb Reds. Prices reasonable. Eggs in season. Kissel Brothers, Hartford, Wisconsin. 12

SILVER CAMPINES—Famous for their wonderful winning records. Prices reasonable. Homestead Campine Farm, Box A, Wayland, Mass. 12

SILVER CAMPINES—Winners at Wheeling, W. Va., Akron, Canton, Ohio, Memphis, Tenn. No stock. Will H. Becker, 7th St., Martins Ferry, Ohio. 12

SILVER CAMPINES—Young stock at low prices. C. F. Walkden, Berea, O. 12-2

SILVER CAMPINES—Bred from prize winners and excellent layers, at bargain prices. Will Fogg, Jonesville, Mich. 12-2

SILVER CAMPINES. Grand birds reasonably priced. Rev. W. Berberich, Groton, New York. 11-15-tf

GOLDEN CAMPINES—Carver's winners. Show birds, \$5.00. Write C. Steckel, White Hall, Ill. 11-1

GOLDEN CAMPINE COCKERELS—Fine, healthy, prize winning stock, \$2.00 and up. Evergreen Poultry Yards, Waltham, Minnesota, Box 156. 11-1

COCHINS.

HIGH GRADE PARTRIDGE Cochins—Prices reasonable. E. C. Jolly, Franklin, Ill. 10-12

CORNISH.

WARD'S CHAMPION DARK Cornish—(Exhibited as Ward & Chilver). Exhibit over forty birds at the Palace, New York. See their record. A choice line of Exhibition and Breeding specimens for sale. Write for Fashion Book. Red stamp appreciated. John Ward, Box 7, Pennington, N. J. 12

DARK AND WHITE CORNISH of quality. Best strains. Winners wherever shown. Stamp for prices. Reasonable. W. B. Grinyer, Eleroy, Illinois. 12-1

DARK CORNISH—WON 4 firsts, 4 seconds, 2 thirds, 3 fourths Nebraska State Fair, 1916. Splendid youngsters. Carl W. Beck, Box 19, Table Rock, Neb. 10-12

AT THE PALACE SHOW—Every first, second and third but one, with eight exhibitors showing sixty birds. White Cornish only. Catalog for stamp. Mountville Farms, Mountville, Virginia. 2-16-tf

DARK CORNISH—1st prize at Chicago, Minneapolis, St. Paul and Minnesota State Fair. Have about 25 cockerels sired by 1st Chicago cockerel. Describe your wants. Satisfaction guaranteed. Waltham Poultry Yards, Waltham, Minn. 11-1

CHAMPION DARK CORNISH—Stock, half price. Morris & Rearick, Eaton, Ind. 11-1

DORKINGS.

WESTFALL'S CHAMPION DORKINGS. Exclusive breeder 27 years. More first prizes, silver cups and specials last 17 years than all competitors combined. Eggs reduced to \$2.00 per 15; \$3.50 per 30; from very best females we own. Can spare several pens of birds fit for show or any other purpose, at reasonable prices. Watson Westfall, Sayre, Pa. 2-16-1yr

DOMINQUES.

I HAVE BOUGHT John Blanchard's Dominiques. Stock for sale. H. W. Shepard, Columbus, Wis. 12-2

FAVEROLLES.

WHITE FAVEROLLES—Male or female, \$2.50, \$5.00. Beautiful White Wyandotte pullets, \$2.00. F. S. Johnson, Cartersville, Mo. 12

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GAME FOWLS—Gaffs, Cocker's Supplies. Stamp for catalog. H. P. Clarke, Mansure Building, Indianapolis, Ind. 12-2

PIT GAMES—Interesting booklet. Sent free. Box 347, Gary, Indiana. 9-12

PIT GAMES—SIX STRAINS. Fine; young and old for sale. Send for circulars. W. C. Byard, Walnut Hills, Cincinnati, Ohio. 11-1

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SILVER SPANGLED HAMBURGERS. Black Diamond strain. Highest honors at Madison Square and leading shows of America. Eggs, \$3.00 and \$5.00 per 15. If you want the best and birds that can win in any competition, you should order stock or eggs from Will L. Clark, Sullivan, Ohio. 3-16tf

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SEVEN BIRD PEN Silver Spangled Hamburgs, \$10.00. J. E. Small, Wrenshall, Minn. 12

SILVER SPANGLED HAMBURGERS—Garden and Palace prize winners. Reasonable. Mrs. Edwin Brown Jenks, Palisade Ave., Yonkers, New York. 12

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HOUDANS—60 COCKERELS and pullets sired by first prize winner, \$2 each. Hartley, Route 5, Vineland, New Jersey. 12

LAYING STOCK of prize winners' descent. Yearlings, pullets, cockerels. One or two fine breeding pens. Price reasonable. Albert Simons, Louisville, Ky. 12

HOUDAN COCKERELS from healthy stock, \$3 to \$5. T. E. Meyer, Lombard, Ill. 10-12

LAKENVELDERS.

LAKENVELDERS—COCKERELS and pullets at \$1.50 to \$3.50 each. Satisfaction guaranteed. Edw. Lenz, Strasburg, Ill. 11-1

WILSON'S LAKENVELDERS: the winners. Standard, 5c. E. Wilson, South Hammond, N. Y. 11-1

HANDSOMEST FOWL and greatest layers in the world. Write. C. E. Patterson, Cardington, Ohio. 12

LAKENVELDERS—UNSURPASSED for beauty and profit. Stock shipped on approval. (Rev.) E. H. Keator, Franklin Park, New Jersey. 12-2

LANGSHANS.

CHOICE BLACK LANGSHANS—Special prices until December 1. Show birds a matter of correspondence. Mrs. Ray Marr, Chatsworth, Ill. 12

NEW YORK STATE FAIR, 1916, four firsts, best display. Same at Brockton. During 1915, 25 firsts in 8 shows, with 30 competitors. Robinson's Langshans, South Weymouth, Mass. 10-12

BLACK LANGSHAN COCKERELS—100 big, husky fellows, from laying strain. Mrs. John Thrash, Fort Wayne, Ind., Route 11. 12-2

FOR IMMEDIATE SALE—The following high quality Black Langshans, line-bred from "Princess Jetta," our 1st prize pullet Madison Square Garden, 1910. Fifteen yearling exhibition hens, \$5.00 each; twelve good breeding hens, \$2.50 each; two yearling exhibition cocks, \$15.00 each; one yearling exhibition cock, \$10.00. R. W. Bishop, Guilford, Conn. 12

BIG BLACK LANGSHANS—Fancy and utility, guaranteed to suit. H. Osterfoss, Hedrick, Iowa. 12-2

BLACK LANGSHANS—Hagerstown, Philadelphia, winners. Stock for sale. Satisfaction guaranteed. Levi Fishel, Dillsburg, Pa. 10-12

WHITE LANGSHANS OF QUALITY—Stock for sale of all ages. Alonzo Tyrner, Greenfield, Indiana. 11-1

S. C. WHITE LEGHORNS.

\$1.00 EACH—SINGLE COMB WHITE Leghorns, pullets and cockerels, yearlings and cocks. Shipped anywhere. As many as desired. Write for catalogue. Woodworth Farm, Wilton, Conn. 8-ft

BARRON PULLETS and cockerels. Sire bred from champion hen by 282-egg sire. These are the best available and will make you high profits. Edwin Pattee, South Bend, Indiana. 11-1

SINGLE COMB WHITE Leghorn cockerels, \$1.00 each. Winnie White, Watson, Illinois. 11-1

SINGLE COMB WHITE Leghorns—196-egg strain; blue-white quilled, scoring to 96. Satisfaction guaranteed. George W. Wolfrum, Carey, Ohio. 10-12

SAVE MONEY! BUY NOW! Single Comb White Leghorns. Good vigorous stock. 200-egg strain. Ten years successful breeding for egg production and exhibition. Alba Farm, Jamestown, Pa., R. 40. 10-12

COCKEREL PRICES SMASHED—Welday's English-American White Leghorns. Catalog. Welday, Seville, Ohio. 11-1

S. C. WHITE LEGHORNS—Young strain. 500 yearling hens, 1000 April hatched pullets. Prices reasonable. Satisfaction guaranteed. Miller Poultry Farm, Box T, Lancaster, Mo. 10-12

COCKERELS—BARRON SINGLE Comb White Leghorns, choice, vigorous, bred from 200-egg strain, heavy laying blood lines to improve your flock. Beautiful birds with superior laying qualities. Believe I can help and please you. Circular free. B. J. Woodmansee, Highland, Ohio. 10-12

FOR SALE—CHOICE Single Comb White Leghorn cockerels from our heavy laying strain, \$3.00 each, two for \$5.00; strong, vigorous, healthy. Gault Egg Farm, Champaign, Illinois. 10-12

TOM BARRON'S WHITE Leghorns, imported direct from International record pen 206 to 282. Cockerels only, \$2.00 up. Raymond Michaels, Tiffin, O., Route 9. 11-1

FANCY ROSE COMB White Leghorn cockerels for sale at bargain prices. Bred from my blue ribbon Chicago Coliseum winners. George A. Rigler, Bentonport, Ia. 11-1

"WORTH WHILE" SINGLE Comb White Leghorns. Write me your wants in exhibition or utility birds. E. J. Niemann, Litchfield, Ill. 11-1

SINGLE COMB WHITE Leghorns—Young's strain direct. Chalk white (no brass). 600 early cockerels, \$1.00 and \$2.00. Hedgewood Farm, Tiffin, Ohio. 11-12

PURE BRED TOM BARRON'S English White Leghorns. Healthy and vigorous. Cockerels and pullets, \$3.00 to \$5.00. Guaranteed to please. George Turner, East Liverpool, O. 11-1

PULLETS, YEARLING HENS—Young's and English strain. Beautiful, vigorous cockerels, \$2.00 up. Nothing but S. C. White Leghorns kept. Egg production our specialty. Blue Mountain Poultry Farm, Columbia, N. J. 11-1

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FAIVRE'S SINGLE COMB WHITE Leghorns, two best strains in the world, bred separately. Winners for any show or laying contest; reasonable. Cocks, hens, cockerels, pullets and foundation flocks. Mistletoe Poultry Farm, Meadville, Pa. 10-12

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BARRON STRAIN WHITE Leghorn cocks and mature cockerels, bred from winning Missouri pen, 1914. Shipped C. O. D. on approval, \$2.50 apiece. We trapnest every hen every day. Free circular. Novova Farm, Silver Spring, Md. 12

NONE BETTER S. C. WHITE Leghorn males from high producing hens. Records up to 260 eggs. Price reasonable. Stock guaranteed. Complete catalog free. Summit Poultry Farm, Ridgely, Maryland. 12-2

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YOUNG'S STRAIN SINGLE Comb White Leghorns, grand low-tailed cockerels, \$5.00 each. Meadow Farm, Coulterville, Ill. 12

S. C. WHITE LEGHORNS—Bred to win and lay. Prices very low. Willow Tree Poultry Farm, Beverly Farms, Mass. 12

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ENGLISH-AMERICAN SINGLE COMB White Leghorn cockerels. Direct Pennsylvania Poultry Farm. Fully matured, \$3.00, two for \$5.00. Lloyd Ross, 519 Chariton St., Peoria, Ill. 12

WHITE LEGHORNS—We have the highest scored laying Leghorns in America. Prices no higher than others. Morris Poultry Farm, Bridgeport, Conn. 12

TOM BARRON'S PRIZE winning White Leghorns. Some fine cockerels from imported birds of highest egg laying strain, \$3.00 up. One 1916 model Queen incubator, cost \$15.00, will take \$10.00. Milton Duncan, Ambia, Ind. 12

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S. C. WHITE LEGHORNS—Young's strain. Splendid shape and color. Exhibition or breeding birds at low prices. J. A. Shine-man, Canajoharie, N. Y. 12-2

TOM BARRON 254-EGG STRAIN—April and May cockerels, \$2.00 up. Must make room for my pullets, 50c added each month after Nov. 1. Cherrycroft Farm, R. F. D. B., Omaha, Neb., direct importer and breeder. 12

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ARISTOCRAT S. C. BROWN Leghorn cockerels, 256 to 279-egg strains. A few choice show specimens that are sure to win. Prices reasonable. Satisfaction guaranteed. L. A. Kline, Savanna, Ill. 12

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FOR SALE—Shoemaker & Kulp Strain S. C. Brown Leghorns. Cockerels. One yearling Kulp cock, \$1.00 and up. Salmon Bros., Camden, Mich., Hillsdale Co., R. 3, Box 33. 12

COCKEREL PRICES SMASHED—Welday's 256-egg Single Comb Brown Leghorns. Catalog. Welday, Seville, Ohio. 11-1

SINGLE COMB BROWN Leghorns—Heavy laying strain. Cockerels, \$1.50; pullets, \$1.25. David Stoneburner, Quaker City, O. 11-12

BUSINESS BRED BROWN BEAUTIES that will improve your flock. Single Comb Brown Leghorn cockerels from my best pen of layers. Stock and prices right. Write Almond K. Dennis, Cameron, N. Y. 11-1

S. C. BROWN LEGHORNS—Cockerels, \$2.50 and \$3.00. Lee E. Bell, Memphis, Tenn., Route 6. 11-1

S. C. BROWN LEGHORNS—Over three hundred prizes, twenty-two trophy cups, fifteen championships at America's best shows. Exhibition and choice breeding stock. Geo. L. Hornbrook, Decatur, Illinois, Box B. 11-1

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A FEW CHOICE SINGLE COMB Buff and White Leghorn cockerels left. Bred from prize winning layers. Write your wants. Hart Bellinger, Plainwell, Mich. 12-2

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BLACK AND WHITE—Splendid early pullets and yearlings; chesty cocks and cockerels now only \$1.00 each. June pullets and cockerels 75c each. Harrison Leghorn Farms, Shelby, Michigan. 12

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BUFF MINORCAS—America's latest egg machines. Goldenroft Farm, Montello, Mass. 12

BUFF MINORCAS—Watch the wave of popularity of this worthy new variety. Are fine layers, hardy and tame. Get in early to reap the harvest. Won 5 firsts at last Chicago Coliseum show. My prices for exhibition stock and breeders are very reasonable. Supply limited. Buy early. E. Schmidt, Hazelrigg, Ind. 10-12

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SINGLE COMB WHITE Minorcas—Cockerels. 17 years a White Minorca breeder. State what you want. Harry Leibold, Delaware, Ohio. 11-1

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ROSE COMB WHITE Minorcas—Cockerels for sale. E. Fetzner, Melrose Park, Ill. 12

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MINORCAS—SEVERAL VARIETIES.

R. C. MINORCAS—Black and white. Mrs. Geo. Clay, Savanna, Ill. 10-12

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FOR SALE—To make room. Rose Comb Black Orpingtons. Old and young. Ira Blake, Kewanee, Ill. 12-2

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BUFF ORPINGTONS—The real New England winners. They will suit in price and quality. Sunset Poultry Farm, 68 Daniel Ave., Onleyville, R. I. 12

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EARLY HATCHED BUFF Orpington cockers. \$5.00 value, sent on approval at half price during this month. C. Steckel, White Hall, Ill. 10-12

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PURE WHITE ORPINGTON Cockerels—\$5 each. April hatched from eggs direct from Aldrich pens. Order today. Sunflower Poultry Yards, Grafton, Ill. 12-1

FOR SALE—Rose comb White Orpingtons till December 31. Mrs. Wm. Leinweber, San Jose, Illinois, Route 2. 12

S. C. WHITE ORPINGTONS—Yearling hens \$3. Early hatched pullets and cockerels \$3. Two for \$5. Gustav Keller, Mountain Home, Ark. 12-2

COOK'S STRAIN White Orpington Pullets. Ready to lay. 10 for \$15. C. C. Carney, New Carlisle, Ind. 12

A QUALITY STRAIN—White Orpington Cockerels from pedigreed, trapnested, egg-bred hens. February hatched. Superb type. Standard weight. From \$3 up. Write me today. T. P. Dougherty, Route 322. Tyrona, Pa. 12

ALDRICH COCKERELS for sale. Descriptions and prices on request. Mrs. John Caughey, Chatsworth, Ill. 12-2

WHITE ORPINGTONS—Aldrich strain cockerels. Reasonable prices. Harry Dicken, Manville, Ill. 12-1

FINE 6 TO 7 POUND White Orpington cockerels. Price \$2. Frank Weinschenk, Bellevue, Ia., Route 4. 12-2

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WHITE CRESTED BLACK Polish, Bearded Silver and Buff Polish, 1st prize winners at great Chicago shows, winning more first prizes than all other competitors together since 1908. Trios, from \$7.00 up. Kakuska, Berwyn, Illinois. 11-1

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ROSE AND SINGLE COMB Rhode Island Reds, bred from prize winners. Cockerels and pullets, \$2.00 up. Geo. J. Seifert, Mt. Vernon, Ind., Route 7. 10-12

S. C. R. I. REDS—Scranton strain. One year old hens and cocks, nice pullets and cockerels of the dark red, large size, good type kind. C. A. Cutchins, Franklin, Va. 10-12

SINGLE COMB REDS of high quality. Selling out entire stock, including show winners. Bargain prices. Philip A. Seifert, Mt. Vernon, Indiana. 10-12

TOMPKIN'S S. C. REDS—Quality cockerels, \$3 each. Shipped on approval. Satisfaction guaranteed. Write. C. Steckel, White Hall, Ill. 11-1

ROSE COMB REDS—Closing out sale. Cocks, cockerels, hens and pullets. Exhibition and breeding stock at a bargain. Write your wants. Goshen Poultry Yards, Goshen, Indiana. 11-1

ROSE COMB REDS FOR SALE. Prices reasonable. L. Condon, Westchester, O. 12-2

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ROSE COMB REDS from blue winners. Cockerels and pullets \$2 up. Approval always. Jno. Illingworth, Kentland, Ind. 12

HEAVY BONED, deep brilliant S. C. Reds, long back, low tail, yellow legs, good combs, red eyes, good scoring and utility. Satisfaction guaranteed. Lela Osterfoss, Hedrick, Iowa. 12-2

FOR SALE—Rhode Island Red Cockerels. Good shape and color. Utility stock. \$3 to \$5. Satisfaction guaranteed or money refunded. Rock Ledge Farm, Southborough, Mass. 12

S. C. REDS—Nothing but record laying birds. Miss L. C. Galbraith, Box 546, Southboro, Mass. 12

SINGLE COMBS—Early hatched farm raised birds from heavy laying, winning Ricksecker-Crowther-Scranton strain. Pullets \$1.50 each, cockerels \$3 to \$15. Special prices on lots. H. W. Prentice, De Kalb, Ill. 12

ROSE COMB REDS—Great laying Bean strain. Choice cockerels, pullets, \$1.50 up. Circular. Albert Daily, Frankfort, O. 12-2

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SINGLE AND ROSE COMB REDS. Quality and heavy egg production. Big, growthy, deep, even colored pullets and cockerels, breeders, \$2.50 each. Exhibition birds \$5. Circular. Wadsworth Poultry Farm, Waynesville, O. 12

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RHODE ISLAND WHITE—For sale, in both combs. Several hundred cockerels, pullets, mated trios and pens. Also eggs and baby chicks. Circular free. West Shore Farm, Box 4, Douglas, Mich. 12-2

RHODE ISLAND WHITES—Paramount strain. Yearlings, pullets, males for sale. Winter layers. Circular. Mrs. Ernest Cook, Route 8, Cecilia, Ky. 12-2

"WHITE QUEEN" STRAIN Rhode Island White. Rose and single combs. Early to lay, weigh and pay. Husky cockerels \$2.50, \$3.50 and \$4.50 each. Cocks \$4 each and up. Eggs \$7.50 per 100. Fred'k Havig, Route 2-A, Osage, Ia. 11-12

BUY SHOREWOOD Rhode Island Whites. Oldest trapnested strains of both combs. Records as high as 261. Winners from coast to coast. America's "Best, Yet." Shorewood Farms Co., Saugatuck, Mich. 12-2

STOCK FOR SALE—From the Great R. I. White Farm. Rose and Single Comb, \$6.00 per trio, \$10.00 per pen. H. Eichelmann, Waterloo, Ill. 10-12

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ENGLISH RED CAPS—Stock for sale from first prize winners. Write for circular. Anton Eckert, Haubstadt, Ind. 12-1

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BARRED ROCK COCKERELS direct from Poorman's 200-egg strain, \$2.00 each. Russell Lock, Williamston, Mich. 12

THOMPSON RINGLET ROCK Cockerels. Three dollars. L. E. Bowman, Beardstown, Ill., Route 1. 12-2

BARRED PLYMOUTH ROCKS, E. B. Thompson strain. Fine vigorous cockerels of either mating, good shape, nicely barred. Price, \$3.00 to \$5.00. Sent on approval. Mrs. E. A. Oliver, Belleville, Wis. 12-2

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BARRED ROCK PULLETS—\$1.50 each. Fine laying strain. White Rock cockerels, Halbach strain direct, \$3 each. W. A. Brown, Lombard, Ill. 12

"RINGLETS" COCKERELS—Pairs, pens, circulars, \$4. Rev. W. W. Cole, Angelica, N. Y. 12-2

RINGLET BARRED ROCKS—Cockerels of extra good quality \$3 to \$5. Shipped on approval. Money back if not satisfied. Write for show record. M. L. Stamper, Clifton Hill, Mo. 12-2

BARRED ROCKS crossed with with Reds. Bred only to lay. Special prices until Dec. 20. R. C. Blake, Townsend Harbor, Mass 12

BARRED ROCKS—Pullet-mating exclusively. Choice cockerels, also a few pullets. Leigh Bickett, R. 9, Xenia, Ohio. 12-1

EXHIBITION BARRED PLYMOUTH ROCK COCKERELS. Sired by blue ribbon winner, hen hatched and reared. On unlimited range. Julius Schmidt, St. Cloud, Minn. 12

RINGLET BARRED ROCK COCKERELS—From special exhibition matings. Large and vigorous farm range birds with great size and quality combined. Write for bargain prices. Mrs. J. M. Kemp, Kenney, Ill. 12-2

RINGLET ROCK COCKERELS—Both matings. All from direct stock the last three years. \$1.50 to \$5.00 each. V. I. Hostetter, R. 5, Nappanee, Ind. 12-2

E. B. THOMPSON RINGLETS—Direct. Ckls., best, five dollars; second, three dollars. Five firsts, Greenfield, Greene Co., poultry show. Mrs. Chas. H. Smith, Greenfield, Ill. 12

E. B. THOMPSON'S RINGLETS—Direct; choice exhibition pullets and cockerels. William Huckle, Waverly, N. Y. 12-2

PARKS 200-EGG BARRED ROCK COCKERELS, \$3.00 up. Frederick Matteson, 3808 Woodley Lane, Washington, D. C. 10-12

THOMPSON'S BARRED ROCKS—Pullets, yearlings, cockerels. Catalog. Failing Poultry Farm, La Fargeville, N. Y. 10-12

BARRED ROCK COCKERELS \$1.50 each. Persian kittens for sale cheap. Won 1st cockerel, Bushnell, score 92 points. Edwin Laux, Bushnell, Ill. 10-12

BARRED ROCK BREEDERS—Learn more about your variety, subscribe for National Barred Rock Journal, Union City, Mich., issued monthly and devoted exclusively to the Grand Old Breed. 50c a year, 3 years \$1, sample 5c. 3-16-1yr

FOR SALE—SPLENDID Barred Plymouth Rock cockerels. Parks' heavy laying strain (from best pens direct). Large boned, beautifully marked, vigorous birds. \$3.00, \$4.00 and \$5.00 each. W. G. Meradith, Danvers, Illinois. 11-1

JOHN'S BIG, BEAUTIFUL "Ringlet" Barred Rocks are all hen hatched, and sold on approval at \$3.00 to \$10.00 each. Breeding pens (five birds), \$10.00 to \$20.00. Choice exhibition birds in both matings. Photographs, circulars. John Northon, Clare, Michigan. 11-1

BARRED PLYMOUTH ROCKS—Cockerels, \$2.50 and \$3.00. Lee E. Bell, Memphis, Tenn., Route 6. 11-1

R. C. BARRED ROCKS.

ROSE COMB BARRED ROCKS. S. B. Wenger, South English, Iowa. 12-2

BUFF PLYMOUTH ROCKS.

BUFF ROCKS—CRESCENT strain. Also White Rocks, Fishel strain. Both kinds are good layers, good shape, size and color. Rachel Sheppard, Pearl, Ill., Route 1. 10-12

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BUFF ROCKS—Exhibition and breeding stock. Great layers. Field, Somers, Conn. 11-2

BUFF ROCKS—Several splendid cockerels for sale sired by first prize cock at Chicago and Milwaukee, 1916. Frank Kramer, Fort Atkinson, Wis. 12-2

BUFF ROCKS—Farm raised. Good size, shape, color. On approval. W. M. Brokaw, Bannock, Ohio. 12

PARTRIDGE PLYMOUTH ROCKS.

PARTRIDGE PLYMOUTH ROCKS—Catalog free. John Hacker, Box A, Marissa, Ill. 12-2

PARTRIDGE ROCKS—Noftzger strain. From prize winning stock. Guaranteed to please. \$2 gets the best for the money. Write Geo. Miller, Nappanee, Ind. 12-2

PARTRIDGE PLYMOUTH ROCKS that have right penciling, shape and color. Sold on approval at reasonable prices. Wm. Schetter, Urbana, Ohio. 12-3

PARTRIDGE PLYMOUTH ROCK COCKEREL for sale. \$5.00 cock birds. \$10.00 wins the blue ribbon. Eggs in season, \$3.00 for 15, \$6.00 for \$50. Melvin Gilbertson, Albany, Wis. 12-2

AMERICA'S PROVEN CHAMPION Partridge Rocks and Bronze Turkeys. See our adv. on page 1376. 5-15-tf

YOUNG AND OLD prize winning Noftzger's Partridge Rocks at pleasing prices. Frank Neudecker, Sleepy Eye, Minn. 10-12

FANCY PARTRIDGE ROCK COCKERELS for sale. 5 to 7-lb. weight, April 3rd hatch; fancy O. K. Albert W. Ecker, Box 52, R. F. D., Milford, Ill. 11-1

IF YOU WANT QUALITY Partridge Rocks write me. Stock ready for shows. 25 years a Partridge specialist. C. E. George, Union City, Mich. 11-12

COLUMBIAN PLYMOUTH ROCKS.

COLUMBIAN PLYMOUTH ROCKS—Enslin strain. T. J. Enslin, Hackettstown, N. J. 1-16-1yr

WHITE PLYMOUTH ROCKS.

FISHEL WHITE ROCKS—Blue ribbon winners. Yearling hens, cocks and young stock. State your wants. Free catalog. Whiteview Poultry Yards, Mishawaka, Ind. 10-12

WHITE ROCK COCKERELS—Farm raised, pure white, Fishel strain direct, \$2.00. Mrs. Ernest Francis, Towanda, Ill. 11-1

WHITE ROCKS—Fine early hatched pullets and first-class breeding cockerels. Free circular. Hock & Frederick, Box O, Chambersburg, Penn. 12-2

"COLFAX" WHITE ROCKS—This ad is worth \$1 on every order for cockerels, pullets, hens or cocks of \$4 each. T. F. Richardson, "Colfax," Evanston, Ill. 12-2

WHITE ROCKS—WHOSE? Loer's choice cockerels for sale. 200-egg strain. O. H. Loer, Clarksville, Pa., R. D. No. 1. 12-1

WHITE ROCKS, Halbach strain. Fine exhibition stock. Cockerels, hens, pullets, \$2.00 up. Pens cheap. Ben Threlkeld, Ewing, Ill. 12-2

WHITE ROCKS—Trapnested 200-egg strain. Cockerels \$3 to \$5, hens and pullets \$2 to \$5. Satisfaction guaranteed. Hillview Poultry Yards, Batesville, Ind. 12-2

FISHEL WHITE ROCK COCKERELS, hens and eggs. Henry Heitkamp, New Bremen, Ohio. 12

CHOICE COCKERELS—From 200-egg dame, \$2. Harry A. Chapin, Avon, Ill. 12

WHITE PLYMOUTH ROCKS—The best in this variety. Winners six worlds fairs, ten state fairs. Price list free. U. R. Fishel, Box U, Hope, Ind. 12

SELECTED WHITE ROCK COCKERELS—Show birds and choice breeders. Pierce & Cushion, Wellington, Ohio. 12-2

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WHITE FACED BLACK SPANISH—Stock and eggs for sale. My Spanish were winners at Indiana State Fair, 1916. J. R. Galloway, Elwood, Ind. 10-1

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RED SUSSEX—UTILITY and exhibition birds for sale. Write for prices, etc. Sussex Yards, Alma Centre, Wis. 11-1

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A FEW VERY FINE Speckled Sussex raised from prize winning stock at live and let live prices. John Blanchard, Columbus, Wis. 11-16tf

SPECKLED SUSSEX—Choice stock priced reasonably. Rev. W. Berberich, Groton, New York. 11-15-tf

BARGAINS IN EARLY Hatched Speckled Sussex cockerels. Maple Grove Farm, Elkhart, Ill. 12-2

SPECKLED SUSSEX—Exhibition and utility birds; old and young. Aug. D. Arnold, Box 57, Dillsburg, Pa. 12

SPECKLED SUSSEX COCKERELS—Choice birds from winning strain. Excellent type and color. The price is very reasonable. Earl Elchin, Olney, Ill. 12

SUSSEX—SEVERAL VARIETIES.

RED, SPECKLED, LIGHT SUSSEX—America's best. Stock very cheap now. G. H. Foster, Bloomington, Ind. 10-12

BUFF WYANDOTTES.

OWENS' GOLDEN MODEL Buff Wyandottes won all firsts, also shape and color specials at Ohio State Fair. Choice stock for sale. B. M. Owens, Shiloh, Ohio. 10-12

COLUMBIAN WYANDOTTES.

COLUMBIAN WYANDOTTES—Michigan's Champion strain, again leading winners 1916 State Fair, Detroit. My birds have won at principal shows of the country, including Panama-Pacific Exposition. Young and old stock, reasonable. Arthur Schaaack, 605 Rohns Ave., Detroit, Mich. 12

COLUMBIAN WYANDOTTES—They are always winners. Prices reasonable. Ralph Woodward, Box 200, Grafton, Mass. 12

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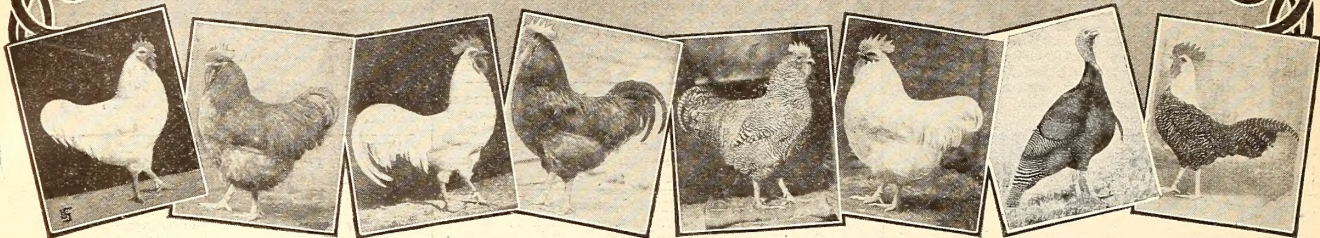
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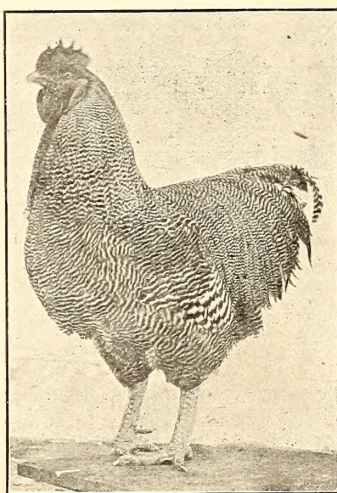
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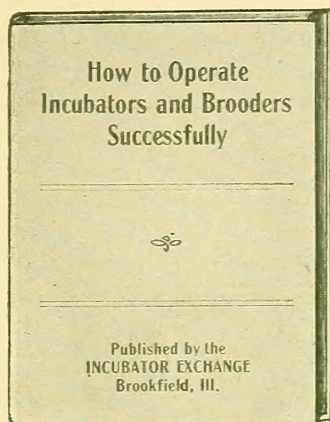
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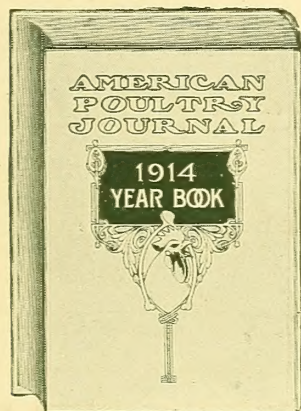
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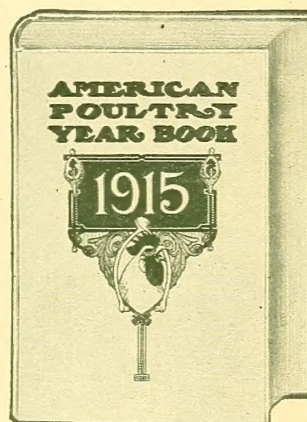


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